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Quick Reference Handbook

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| R AOA PROBE | 3.1 |

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| R | ELEC HYD OVHT | 13.1 |
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DO NOT USE FOR FLIGHT

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Normal Checklists

Chapter NC

| PREFLIGHT | | |
|---------------------------------------|--|--|
| Oxygen | | |
| Flight instruments Heading, Altimeter | | |
| Parking brakeSet | | |
| Fuel control switches | | |
| BEFORE START | | |
| Flight deck door Closed and locked | | |
| Passenger signs | | |
| Windows Locked | | |
| MCP | | |
| Takeoff speeds | | |
| CDU preflightCompleted | | |
| Trim | | |
| Taxi and takeoff briefing Completed | | |
| Red anti collision light | | |
| BEFORE TAXI | | |
| Anti-ice | | |
| Isolation switchOff | | |
| Recall | | |
| AutobrakeRTO | | |
| Flight controlsChecked | | |
| Ground equipment | | |

| BEFORE | TAKEOFF |
|-------------------|----------------|
| Flaps | <u> </u> |
| | |
| AFTER 1 | TAKEOFF |
| Landing gear | UP and OFF |
| Flaps | UP |
| DEC | OFNT |
| | CENT |
| Pressurization | LDG ALT |
| Recall | Checked |
| Autobrake | ····· |
| Landing data | VREF, Minimums |
| Approach briefing | Completed |
| APPR | OACH |
| Altimeters | <u> </u> |
| ΙΔΝ | DING |
| | |
| • | ARMED |
| Landing gear | Down |

| SHUTDOWN | | | | | | |
|-----------------------------|--|--|--|--|--|--|
| Hydraulic panel | | | | | | |
| Fuel pumps Off | | | | | | |
| FlapsUP | | | | | | |
| Parking brake | | | | | | |
| Fuel control switchesCUTOFF | | | | | | |
| Weather radar | | | | | | |
| SECURE | | | | | | |
| IRSsOFF | | | | | | |
| Emergency lights OFF | | | | | | |
| Window heat | | | | | | |



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|--------------------------|-------------|--|
| Miscellaneous | Section 0 | |
| Table of Contents | | |
| Ditching Preparation | 0.1 | |
| Tail Strike | 0.3 | |

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Ditching Preparation

Condition: Airplane ditching and evacuation are needed.

- 1 Transmit a distress signal.
- 2 Advise the cabin to prepare for ditching.
- 3 Do **not** use the autobrake.
- 4 Do **not** arm speedbrake lever.
- 5 Use flaps 30 and VREF 30 for landing.
- **6 Checklist Complete Except Deferred Items**

| | Deferred Items | |
|--------------------------|----------------|-----------------|
| Descent Checklist | t | |
| Pressurization | | . LDG ALT |
| Recall | | Checked |
| Autobrake | | OFF |
| Landing data | VREF 30, N | 1inimums |
| Approach briefing | | Completed |
| Approach Checkli | st | |
| Altimeters | | · · · · · · · · |

Continued on next page

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▼ Ditching Preparation continued **▼**

| When below 5,000 feet |
|--|
| GND PROX GEAR OVRD switch OVRD |
| GND PROX TERR OVRD switch OVRD |
| PACK control selectors (both) OFF |
| Cabin altitude MODE SELECT MAN |
| CABIN ALTITUDE MANUAL control Hold in DESCEND until outflow valve is fully closed |
| PASS SIGNS selectors |
| Do not accomplish the following checklists: |
| PACK OFF |
| CABIN AUTOMATIC INOPERATIVE |
| When on final approach |
| Advise crew of imminent touchdown. |
| Passenger cabin Secure |
| Maintain airspeed at VREF 30 to touchdown. Flare airplane to achieve minimum rate of descent at touchdown. |
| Landing Checklist |
| Speedbrake |
| Landing gear UP |
| Flaps |

Tail Strike

Condition: The tail hits the runway.

Caution! Do not pressurize the airplane due to possible structural damage.

- 1 Cabin altitude MODE SELECT MAN
- 2 CABIN ALTITUDE

 MANUAL control Hold in CLIMB until

 outflow valve is fully open
- 3 Level off at the lowest safe altitude.
- 4 Plan to land at the nearest suitable airport.
- 5 Do **not** accomplish the following checklist:

CABIN AUTOMATIC INOPERATIVE



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757 Flight Crew Operations Manual

| Non-Normal Checklists | Chapter NNC |
|--|--------------------|
| Airplane Gen., Emer. Equip., Doors, Window | ws Section 1 |
| Table of Contents | |
| ACCESS DOOR(S) | 1.1 |
| AUTOMATIC UNLOCK | 1.2 |
| CARGO DOOR(S) | 1.3 |
| Ditching Preparation | ▶▶0.1 |
| EMERGENCY DOOR(S) | |
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| Window Open | |
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Non-Normal Checklists - DO NOT USE FOR FLIGHT
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| ۸۲ | CESS | 1.00E.00 P. | 000(6) |
|----|---------------|---|---|
| DO | OORS | ACCESS D | OOR(S) |
| Me | essages: | ACCESS DOORS E/E ACCESS DOOR | FWD ACCESS DOOR |
| Co | ondition: | One or more access and secure. | doors are not closed |
| 1 | Choos | e one: | |
| | ♦ Pres | surization is normal | : |
| | | The door is in a saf as cabin pressuriza ■ ■ | e configuration as long tion is normal. |
| | ◆ Pres | surization is not nor | mal: |
| | | ▶▶Go to step 2 | |
| 2 | PASS | SIGNS selectors | |
| 3 | LDG A | LT selector | Set 9,500 feet |
| 4 | Choos | e one: | |
| | ♦Occi | urrence is on takeoff | or initial climb: |
| | | Do not exceed 10,0 | 000 feet. |

♦Occurrence is in climb, cruise, or descent:

Descend to lowest safe altitude **or** 14,000 feet, whichever is higher.

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AUTO UNLK

AUTOMATIC UNLOCK

(SB Adds BC001, BC002 with Automatic Unlock checklist for the Enhanced Security Flight Deck Door.)

Condition: The correct emergency access code is

entered.

Objective: To deny unauthorized access to the flight

deck before the door automatically unlocks.

1 FLT DK DOOR lock selector Rotate to DENY and hold for 1 second



| CARGO | ļ |
|--------------|---|
| DOORS | |

CARGO DOOR(S)

Messages: CARGO DOORS

FWD CARGO DOOR AFT CARGO DOOR

Condition: One or more cargo doors are not closed and

secure.

1 Choose one:

◆Pressurization is **normal**:

The door is in a safe configuration as long as cabin pressurization is normal.

Pressurization is not normal:

▶▶Go to step 2

- 2 PASS SIGNS selectors.....ON
- 3 LDG ALT selector Set 9,500 feet
- 4 Choose one:
 - ♦Occurrence is on takeoff or initial climb:

Do **not** exceed 10,000 feet.

Occurrence is in climb, cruise, or descent:

Descend to lowest safe altitude **or** 14,000 feet, whichever is higher.



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EMER DOORS

EMERGENCY DOOR(S)

[Option: Aircraft equipped with emergency doors aft of the wing.]

Messages: EMER DOORS

L EMER DOOR R EMER DOOR

Condition: One or more emergency doors are not

closed and secure.

1 Choose one:

◆Pressurization is normal:

The door is in a safe configuration as long as cabin pressurization is normal.

Pressurization is **not normal**:

▶▶Go to step 2

- 3 LDG ALT selector Set 9,500 feet
- 4 Choose one:
 - ♦Occurrence is on takeoff or initial climb:

Do not exceed 10,000 feet.

Occurrence is in climb, cruise, or descent:

Descend to lowest safe altitude or 14,000 feet, whichever is higher.

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EMER DOORS

EMERGENCY DOOR(S)

[Option : Aircraft equipped with emergency doors over the wing.]

Messages: EMER DOORS

L AFT EMER DOOR R AFT EMER DOOR L FWD EMER DOOR R FWD EMER DOOR

Condition: One or more emergency doors are not

closed and secure.

1 Choose one:

◆Pressurization is **normal**:

The door is in a safe configuration as long as cabin pressurization is normal.

Pressurization is not normal:

▶▶Go to step 2

- 2 PASS SIGNS selectors ON
- 3 LDG ALT selector Set 9,500 feet

Continued on next page

▼ EMERGENCY DOOR(S) continued ▼

- 4 Choose one:
 - ◆Occurrence is on takeoff or initial climb:

Do not exceed 10,000 feet.

- ▶ Go to step 5
- Occurrence is in climb, cruise, or descent:

Descend to lowest safe altitude or 14,000 feet, whichever is higher.

- ▶▶Go to step 5
- 5 **If** a wing slide deployment is suspected:
 - ► Go to the WING SLIDE checklist on page 1.13



UNARMED

EMERGENCY LIGHTS

Message: EMER LIGHTS

Condition: The emergency lights switch is not ARMED.



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ENTRY DOORS

ENTRY DOOR(S)

Messages: L ENTRY DOORS R ENTRY DOORS

L AFT ENT DOOR R AFT ENT DOOR
L CTR ENT DOOR R CTR ENT DOOR
L FWD ENT DOOR R FWD ENT DOOR

Condition: One or more doors are not closed and secure.

1 Choose one:

◆Pressurization is normal:

The door is in a safe configuration as long as cabin pressurization is normal.

Pressurization is not normal:

▶▶Go to step 2

- 3 LDG ALT selector Set 9,500 feet
- 4 Choose one:
 - ♦Occurrence is on **takeoff or initial climb**:

Do not exceed 10,000 feet.

Occurrence is in climb, cruise, or descent:

Descend to lowest safe altitude or 14,000 feet, whichever is higher.

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LOCK FAIL

(SB Adds BC001, BC002 with LOCK FAIL checklist that applies Enhanced Security Flight Deck Door.)

Condition: One or more of these occur:

•The flight deck access system switch is off

The lock is failed

Objective: To remove power from the lock to prevent a

possible overheat.

1 If conditions allow:

FLIGHT DECK ACCESS SYSTEM

switch..... OFF

Note: The door can be locked with the

deadbolt.



ON

PASSENGER OXYGEN ON

Message: PASS OXYGEN ON

Condition: The passenger oxygen system is on.



757 Flight Crew Operations Manual

Window Damage

Condition: A flight deck window has one or more of these:

- An electrical arc
- A delamination
- A crack
- Is shattered
- 1 Choose one:
 - ♦Window is arcing, shattered, or cracked:

WINDOW HEAT switch (affected window) Off

Do **not** accomplish the following checklist:

WINDOW (HEAT)

- ▶▶Go to step 2
- Window is **not** arcing, shattered, or cracked:
 - ▶ ▶ Go to step 2
- 2 Choose one:
 - ◆Damaged window is **deformed or** an air leak is **observed**:
 - ▶▶Go to step 3
 - ◆Damaged window is **not** deformed and an air leak is **not** observed:



3 Plan to land at the nearest suitable airport.

▼ Window Damage continued **▼**

- 4 Choose one:
 - ♦Airplane altitude is **above** 10,000 feet:

Descend to lowest safe altitude or 10,000 feet, whichever is higher. This minimizes forces on the window.

- ▶ Go to step 5
- ◆Airplane altitude is **at or below** 10,000 feet:
 - ▶ ▶ Go to step 5
- 5 Sustained flight below 10,000 feet is not recommended due to greater risk of bird strike.



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Window Open

Condition: A side window opens during takeoff or in flight.

- 1 Maintain the maneuvering speed for existing flap setting until the window is closed.
- 2 The force needed to close the window increases with airspeed. It may **not** be possible to close the window at speeds above 250 knots.
- 3 Close and lock the window.
- 4 Choose one:
 - ♦Window locks and pressurization is normal:

Continue normal operation.



♦ Window does not lock or pressurization is not normal:

Level off at the lowest safe altitude.

The airplane can fly unpressurized and land safely with the window open.



EMER DOORS

WING SLIDE

Messages: EMER DOORS

L WING SLIDE R WING SLIDE

Condition: One or both wing slide doors are not closed

and secure.

1 Choose one:

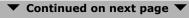
◆Visual or aural observation does **not confirm** that the overwing ramp slide is deployed and is still attached to the airplane:

◆Visual or aural observation **confirms** that the overwing ramp slide is deployed and is still attached to the airplane:

▶ ▶ Go to step 2

- 2 Minor damage to the trailing edge flap, aft fuselage, and empennage may occur.
- 3 If needed to minimize slide oscillations and subsequent airplane damage:

Operate at a reduced airspeed.



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| 131 Inght Crew Operations Manual |
|---|
| ▼ WING SLIDE continued ▼ |
| 4 Choose one: |
| ◆Flaps 25 or Flaps 30 are needed for landing: |
| Use normal flaps and speeds for landing. \blacksquare \blacksquare \blacksquare |
| ◆Flaps 25 or Flaps 30 are not needed for landing: |
| GND PROX FLAP OVRD switch OVRD |
| Use flaps 20 and VREF 20 for landing. |
| ▶▶Go to step 5 |
| 5 Checklist Complete Except Deferred Items |
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 20, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| Landing Checklist |
| Speedbrake |

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Continued on next page ▼

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DO NOT USE FOR FLIGHT

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| ▼ WING SLIDE continued ▼ | |
|--|----|
| Landing gear Dow | /r |
| Flaps | C |
| | |

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757 Flight Crew Operations Manual

| Air Systems | Section 2 |
|--|-----------|
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| APU BLEED VALVE | 2.2 |
| BLEED DUCT LEAK | |
| BLEED ISOLATION VALVE | 2.3 |
| CABIN ALTITUDE or Rapid Depressurization | 2.1 |
| | |
| CABIN AUTOMATIC INOPERATIVE | |
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| ENGINE BLEED OFF | 2.7 |
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| FLIGHT DECK TEMPERATURE | 2.11 |
| PACK OFF | 2.12 |
| PACK TEMPERATURE | 2.16 |
| RECIRCULATION FAN | 2.17 |
| TRIM AIR | 2.17 |
| | |

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CABIN ALTITUDE or Rapid Depressurization



Message: CABIN ALTITUDE

Condition: A cabin altitude exceedance occurs.

- 1 Don the oxygen masks.
- 2 Establish crew communications.
- 3 Check the cabin altitude and rate.
- 4 **If** the cabin altitude is uncontrollable:

PASS OXY switch Push and hold for 1 second

Without delay, descend to the lowest safe altitude or 10,000 feet, whichever is higher.

To descend:

Move the thrust levers to idle

Extend the speedbrakes

If structural integrity is in doubt, limit airspeed and avoid high maneuvering loads.

Descend at VMO/MMO



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APU BLEED VALVE

| Message: APU E | BLEED VA | ٩L |
|----------------|----------|----|
|----------------|----------|----|

Condition: The APU bleed valve is not in the

commanded position.



DUCT LEAK

BLEED DUCT LEAK

Messages: L BLD DUCT LEAK R BLD DUCT LEAK

Condition: A bleed air leak occurs in the wing area.

1 Determine the affected side:

If either duct pressure is abnormally low and/or corresponding pack has tripped, the low pressure indication determines the affected side.

If duct pressure and pack operation are normal on both sides, use the duct leak message to determine the affected side.

2 ENG BLEED AIR switch (affected side).....Off

3 ISOLATION switchOff

4 **If** the left side is the affected side:

APU BLEED AIR switch Off

lacktriangle Continued on next page lacktriangle

▼ BLEED DUCT LEAK continued **▼**

5 WING ANTI-ICE switch Off
This prevents possible asymmetrical ice buildup on the wings.

- 6 Avoid icing conditions.
- 7 Engine anti-ice on effected side is not available.
- 8 Do **not** accomplish the following checklist:

ENGINE BLEED OFF



VALVE

BLEED ISOLATION VALVE

Message: BLEED ISLN VAL

Condition: The isolation valve is not in the commanded

position.



757 Flight Crew Operations Manual

CABIN AUTOMATIC

| AUTO INOF | INC | PERATIVE | |
|---|----------------|---|--|
| Messages: C | ABIN AUTO INOP | | |
| • | failed | ors: pressurization control is de mode selector is in | |
| 1 Cabin al | titude MODE SE | LECT MAN | |
| _ | LTITUDE MANUA | AL CLIMB or DESCEND as needed to control desired cabin rate and altitude | |
| Note: Recommended cabin rate is approximately 500 FPM for climbs and descents. | | | |
| Red | commended cab | in altitude in cruise is: | |
| FI | LIGHT LEVEL | CABIN ALTITUDE | |
| U | p to 230 | Landing Field Elevation | |
| 2 | 60 | 2000 | |
| 3 | 00 | 4000 | |
| 3. | 50 | 6000 | |
| 4 | 00 and above | 8000 | |
| 3 Checkli | - | ccept Deferred Items | |
| | Deferre | d Items | |
| Descent C | hecklist | | |
| Pressuriza | tion | LDG ALT | |
| Recall | | Checked | |
| | ▼ Continued o | n nevt nege | |

| ▼ CABIN AUTOMATIC INOPERATIVE continued ▼ |
|---|
| Autobrake |
| Landing data VREF, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| |
| When at pattern altitude |
| CABIN ALTITUDE MANUAL control Hold in CLIMB until outflow valve is fully open |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| Flaps |

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| CABIN TEM | PERATURE | |
|---|--|--|
| AFT CABIN TEMP | FWD CABIN TEMP | |
| A fault in the zoThe compartmentoff | ne temperature contro nt temperature contro | |
| T TEMP control ted compartment) | | OFF |
| ected compartment warm or too cold: | temperature continues | s to |
| IM AIR switch | | . Off |
| | | о а |
| not accomplish the | e following checklist: | |
| TRIM AIR | | |
| | AFT CABIN TEMP One or more of the A fault in the zon The compartment off The trim air swith T TEMP control ted compartment of warm or too cold: IM AIR switch This schedules the programmed term not accomplish the | One or more of these occur: •A fault in the zone temperature contro •The compartment temperature contro off •The trim air switch is off T TEMP control ted compartment) |



ENGINE BLEED OFF

| F | | | |
|----|---------------|-------------------------------------|--------------------------|
| M | essages: | L ENG BLEED OFF | R ENG BLEED OFF |
| Co | ondition: | The engine bleed v system fault. | alve closed because of a |
| 1 | ENG E | BLEED AIR switch (a | ffected side)Off |
| 2 | If eng | jine and wing anti-i | ce needed: |
| | PAG | CK control selector (| (affected side) OFF |
| | ISO | DLATION switch | On |
| | | nen engine and wind eded: | g anti–ice no longer |
| | | ISOLATION switch | ch Off |
| 3 | If win | g anti-ice needed: | |
| | PAG | CK control selector (| (affected side) OFF |
| | ISO | DLATION switch | On |
| | Wł | nen wing anti-ice n | o longer needed: |
| | | ISOLATION swite | ch Off |
| 4 | Do no | t accomplish the fo | llowing checklist: |
| | PAG | CK OFF | |

757 Flight Crew Operations Manual

| ENGINE BLEED VALVE | | | | |
|--|--|--|--|--|
| М | essages: L ENG BLEED VAL R ENG BLEED VAL | | | |
| Condition: An engine bleed air overheat occurs. | | | | |
| 1 | ENG BLEED AIR switch (affected side) Off, then On | | | |
| 2 | If ENG BLEED VAL message reappears: | | | |
| | ENG BLEED AIR switch Off | | | |
| 3 | If engine and wing anti-ice needed: | | | |
| | PACK control selector (affected side) OFF | | | |
| | ISOLATION switchOn | | | |
| When engine and wing anti-ice no longer needed: | | | | |
| | ISOLATION switch Off | | | |
| 4 | If wing anti-ice needed: | | | |
| | PACK control selector (affected side) OFF | | | |
| | ISOLATION switchOn | | | |
| | When wing anti-ice no longer needed: | | | |
| | ISOLATION switch Off | | | |
| 5 | Do not accomplish the following checklists: | | | |
| | ENGINE BLEED OFF | | | |
| | PACK OFF | | | |
| | | | | |

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ENGINE HIGH STAGE HI STAGE Messages: L ENG HI STAGE R FNG HI STAGE Condition: Excessive engine bleed air pressure occurs. ENG BLEED AIR switch (affected side) Off If engine and wing anti-ice needed: PACK control selector (affected side) OFF ISOLATION switch On When engine and wing anti-ice no longer needed: ISOLATION switch Off If wing anti-ice needed: PACK control selector (affected side) OFF ISOLATION switch On **When** wing anti-ice no longer needed: ISOLATION switch Off 4 Do **not** accomplish the following checklists: ENGINE BLEED OFF PACK OFF

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OVHT

EQUIPMENT OVERHEAT

Message: EQPT OVHT

Condition: The forward equipment cooling system is

inoperative.

Note: If accompanied by a FWD EQPT SMOKE

message, delay action until the smoke

message disappears.

1 EQUIP COOLING switch ALTN

2 Choose one:

♦OVHT light **extinguishes**:

♦OVHT light stays illuminated:

Non-essential avionics and electrical equipment are subject to imminent failure

Cooling is being provided as required to essential avionics and electrical equipment



| TI | NOP | FLIGHT DECK TEMPERATURE | | |
|-----|-----------|--|--|--|
| -11 | | 122011 DEGR 12111 ERATIONE | | |
| M | essage: | FLT DECK TEMP | | |
| Co | ondition: | One or more of these occur: •A fault in the zone temperature controller •The trim air switch is off | | |
| 1 | FLT D | K COMPT TEMP control OFF | | |
| 2 | | ected compartment temperature continues to warm or too cold: | | |

Do **not** accomplish the following checklist:

TRIM AIR switch.....Off

This schedules the operating pack(s) to a

TRIM AIR



programmed temperature.

757 Flight Crew Operations Manual

PACK OFF

PACK OFF

Messages: L PACK OFF R PACK OFF

Condition: A pack valve is closed.

1 Choose one:

♦A single PACK OFF light is illuminated:

Continue normal operation.

♦Both PACK OFF lights are illuminated:

▶ Go to step 2

- Without delay, descend to the lowest safe altitude or 10,000 feet, whichever is higher
- 3 To descend:

Move the thrust levers to idle.

Extend the speedbrakes.

If structural integrity is in doubt, limit airspeed and avoid high maneuvering loads.

Descend at VMO/MMO.

- 4 Consider an alternate engine bleed air source, or if below 17,000 feet the APU bleed air source, if dual PACK OFF condition is a result of engine bleed air loss not caused by a duct leak or engine start valve failure.
- 5 Wait until level off.

lacktriangle Continued on next page lacktriangle

▼ PACK OFF continued ▼

- 6 Choose one:
 - **♦Either or both** PACK OFF lights **extinguish**:

♦Both PACK OFF lights **stay illuminated**:

▶ Go to step 7

- 7 Maintain airspeed at or greater than 290 knots to ensure fresh air circulation .
- 8 Choose one:
 - ♦Airplane altitude is at or below 10,000 feet:
 - ▶▶Go to step 9
 - Airplane altitude is above 10,000 feet:

Don the oxygen masks.

Establish crew communications.

▶▶Go to step 9

9 Cabin altitude MODE SELECT MAN

10 CABIN ALTITUDE

MANUAL control Hold in CLIMB until outflow valve is fully open

- 11 UTILITY BUS switches (Both)........Off
- 12 SHOULDER HEATERS and FOOT HEATERS switches (all)..... OFF
- 13 Minimize flight deck lighting intensity.

lacktriangle Continued on next page lacktriangle

757 Flight Crew Operations Manual

▼ PACK OFF continued ▼

- 14 Open the flight deck door.
- 15 Install flight deck sunvisors during daylight operations.
- 16 Instruct flight attendants to:

Reduce cabin lighting to minimum needed.

Close cabin window shades during daylight operations.

- 17 Plan to land at nearest suitable airport.
- 18 Do **not** accomplish the following checklists:

CABIN AUTOMATIC INOPERATIVE RECIRCULATION FAN UTILITY BUS OFF



757 Flight Crew Operations Manual

| II | NOP | PACK TEI | MPERATURE | |
|----|----------|---|---|----------------|
| M | essages | : L PACK TEMP | R PACK TEMP | |
| Co | ondition | One or more of tA pack controlA pack overhe | ler fault | |
| 1 | PAC | Control selector (| affected side) S | TBY N |
| 2 | Choc | se one: | | |
| | ♦IN(| OP light extinguis | hes: | |
| | | ▶ Go to step | 3 | |
| | ◆IN(| OP light stays illu i | minated: | |
| | | Wait 5 minutes | 5. | |
| | | PACK RESET sw | vitch | Push |
| | | ▶ G o to step | 3 | |
| 3 | | • | mperature becomes cool with STBY N selec | cted: |
| | | ACK control selectonfected side) | STBY C or ST | BY W, eeded |

▼ Continued on next page ▼

▼ PACK TEMPERATURE continued ▼

- 4 Choose one:
 - **♦**INOP light **stays extinguished**:

◆INOP light stays illuminated or illuminates again:

PACK control selector (affected side) . OFF
Do **not** accomplish the following checklist:
PACK OFF



INOP

RECIRCULATION FAN

Messages: L RECIR FAN R RECIR FAN

Condition: The recirculation fan is inoperative.

OFF

TRIM AIR

Message: TRIM AIR

Condition: The trim air switch is OFF.

| Non-Normal Checklists | Chapter NNC |
|-------------------------|-------------|
| Anti-Ice, Rain | Section 3 |
| Table of Content | S |
| AOA PROBE | 3.1 |
| AUXILIARY PITOT | 3.1 |
| CAPTAIN PITOT | 3.1 |
| ENGINE ANTI-ICE | 3.2 |
| FIRST/OFFICER PITOT | 3.2 |
| PROBE HEAT | 3.3 |
| TAT PROBE | 3.3 |
| WINDOW (HEAT) | 3.4 |
| WING ANTI-ICE | 3.6 |

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AOA PROBE

L AOA R AOA

Messages: L AOA PROBE R AOA PROBE

Condition: The AOA probe heat is failed.

1 Flight in icing conditions may result in some erroneous flight instrument indications.

AUXILIARY PITOT

L AUX R AUX PITOT

Messages: L AUX PITOT R AUX PITOT

Condition: The auxiliary pitot probe heat is failed.

1 Flight in icing conditions may result in some erroneous flight instrument indications.

CAPT PITOT

CAPTAIN PITOT

Message: CAPT PITOT

Condition: The captain's pitot probe heat is failed.

1 Flight in icing conditions may result in some erroneous flight instrument indications.

757 Flight Crew Operations Manual

VALVE

ENGINE ANTI-ICE

Messages: L ENG ANTI-ICE

R ENG ANTI-ICE

Condition: The engine anti-ice valve is not in the

commanded position.

1 Choose one:

◆ENGINE ANTI-ICE switch is **ON**:

Avoid icing conditions.

Leave the ENGINE ANTI-ICE switch ON.

◆ENGINE ANTI-ICE switch is **off**:

▶ Go to step 2

- 2 ENGINE ANTI-ICE switch (affected engine) . . . ON
- 3 **If** total air temperature (TAT) is above 10 degrees C:

Avoid high thrust settings.

F O PITOT

FIRST/OFFICER PITOT

Message:

F/O PITOT

Condition: The first officer's pitot probe heat is failed.

1 Flight in icing conditions may result in some erroneous flight instrument indications.

PROBE HEAT

Message: PROBE HEAT

Condition: Two or more probe heats are failed.

1 Flight in icing conditions may result in some erroneous flight instrument indications.

TAT PROBE

Message: TAT PROBE

Condition: The TAT probe heat is failed.

1 Flight in icing conditions may result in some erroneous flight instrument indications.

| INOP | WINDO | W (HEAT) | |
|------------|--|-------------------------------|--------------|
| Messages: | L FWD WINDOW L SIDE WINDOW WINDOW HEAT | R FWD WINDOW R SIDE WINDOW | |
| Condition: | One or more wind | low heats are off. | |
| Objective: | To attempt to rese | et the system. | |
| 1 WIND | OW HEAT switch | Off 10 seco ther | nds, n ON |
| 2 Choos | se one: | | |
| ♦INO | P light extinguish | es: ■ ■ ■ | |
| ♦INO | P light stays illum | inated: | |
| | WINDOW HEAT S | switch | . Off |
| | | ■ ■ | |

| VALVE | WING ANTI-ICE |
|-------------|--|
| Messa | es: L WING ANTI-ICE R WING ANTI-ICE |
| Condi | on: The wing anti-ice valve is not in the commanded position. |
| | oose one: VING ANTI-ICE switch is ON : WING ANTI-ICE switchOff Avoid icing conditions. Do not use wing anti-ice ■ ■ ■ ■ |
| • | VING ANTI-ICE switch is Off: When equipped with Rolls Royce engines. ▶▶Go to step 2 When equipped with Pratt and Whitney engines. ▶▶Go to step 3 |
| 2 W | NG ANTI-ICE switch |
| 3 If | eft valve failed open: |
| | APU BLEED AIR switch Off |
| 4 CI | ecklist Complete Except Deferred Items |
| | ▼ Continued on next page ▼ |

▼ WING ANTI-ICE continued ▼

| Deferred Items | |
|--|---------------------------------------|
| Descent Checklist | |
| Pressurization | . LDG ALT |
| Recall | Checked |
| Autobrake | <u></u> |
| Landing data VREF, Minimu | ms |
| Approach briefing | Completed |
| Approach Checklist | |
| Altimeters | |
| Landing Checklist | |
| Speedbrake | Armed |
| Landing gear | Down |
| Flaps | · · · · · · · · · · · · · · · · · · · |
| After landing | |
| ENG BLEED AIR switch (affected side) | Off |
| ISOLATION switch | Off |
| This prevents possible structural doverheat. | lamage due to |





| Chapter NNC | | |
|--------------------------|--|--|
| Section 4 | | |
| Table of Contents | | |
| 4.1 | | |
| 4.1 | | |
| 4.1 | | |
| | | |

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AUTO PILOT

AUTOPILOT

Message: AUTOPILOT

Condition: One or more of these occur:

- •The autopilot operates in a degraded mode other than the selected mode
- •The engaged roll mode fails
- •The engaged pitch mode fails
- 1 Autopilot disengage switch Push





AUTOPILOT DISCONNECT

Message: AUTOPILOT DISC

Condition: All autopilots are disconnected.



A/T DISC

AUTOTHROTTLE DISCONNECT

Message: AUTOTHROT DISC

Condition: The autothrottle is disconnected.



| Non-Normal Checklists | Chapter NNC | |
|----------------------------------|-------------|--|
| Communications | Section 5 | |
| Table of Contents | | |
| Radio Transmit Continuous (Stuck | | |
| Microphone Switch) | 5.1 | |

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Radio Transmit Continuous (Stuck Microphone Switch)

Condition: A radio transmits continuously without crew

input.

Objective: To identify and isolate the stuck

microphone.

- 1 INT microphone selector switches (all) On This deselects radios and stops radio transmissions.
- 2 The microphone/interphone with the stuck switch continuously transmits on interphone.
- 3 The associated audio control panel should remain on interphone. All other audio control panels may be used normally.



| 8 | |
|-----------------------------|--------------------|
| Non-Normal Checklists | Chapter NNC |
| Electrical | Section 6 |
| Table of Contents | |
| AC BUS OFF | 6.1 |
| APU GENERATOR OFF | |
| BATTERY OFF | |
| BUS ISOLATED | 6.6 |
| ELECTRIC HYDRAULIC OVERHEAT | ▶▶13.1 |
| GENERATOR DRIVE | 6.7 |
| GENERATOR OFF | 6.8 |
| MAIN BATTERY DISCHARGE | 6.9 |
| STANDBY BUS OFF | 6.10 |
| UTILITY BUS OFF | 6.15 |

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AC BUS OFF

When equipped with the optional hydraulic driven generator.

Messages: L AC BUS OFF R AC BUS OFF

Condition: The AC bus is not powered.

Objective: To attempt to restore electrical power.

- Attempt only one reset GEN CONT switch (affected side).........Off, then ON Choose one: APU is **available**: ▶ Go to step 3 APU is **not** available: ▶ Go to step 5 3 APU selector START, then ON 4 **When** the APU is running:

-<mark>Attempt only one reset |</mark> L BUS TIE switch Off, then AUTO

Attempt only one reset $lue{lue}$ R BUS TIE switch \ldots \ldots Off, then AUTO

Continued on next page \

757 Flight Crew Operations Manual

▼ AC BUS OFF continued **▼**

5 If both AC BUS OFF lights were illuminated and AC power is restored:

Activate the FMC route, if needed.

Enter the FMC performance data, if needed.

If an IRS ALIGN light is illuminated:

Action is **not** reversible. Do this step only for the affected IRS(s)

IRS MODE selector. ATT

Enter heading on IRS control panel or POS

- 6 Choose one:
 - ♦ Both BUS OFF lights are extinguished:

INIT page of FMC.

- ◆ Both BUS OFF lights stay illuminated:
 - ▶ Go to step 9
- Right BUS OFF light stays illuminated:
 - ▶ Go to step 8
- **♦ Left** BUS OFF light stays illuminated:
 - ▶ ▶ Go to step 7

▼ Continued on next page **▼**

▼ AC BUS OFF continued **▼**

7 Plan to land at the nearest suitable airport.

Left AC Bus Off

Inoperative Items

Some pitot heat probes inop

Flight in icing conditions may result in some erroneous flight instrument indications.

Left and Center flight directors inop

Flap indicator inop

Left and Center autopilot inop



8 Plan to land at the nearest suitable airport.

Right AC Bus Off

Inoperative Items

Some pitot heat probes inop

Flight in icing conditions may result in some erroneous flight instrument indications.

Right flight director inop

Right autopilot inop



9 Plan to land at the nearest suitable airport.

11 EQUIP COOLING switch..... ALTN

▼ Continued on next page **▼**

| ▼ AC BUS OFF continued ▼ |
|--|
| 12 TRIM AIR switch OFF |
| Both AC Buses Off |
| Inoperative Items |
| Some pitot heat probes inop |
| Flight in icing conditions may result in some erroneous flight instrument indications. |
| All flight directors inop |
| All autopilots inop |
| Automatic speedbrake system inop Manual speedbrake extension after landing is needed. |
| Anti-skid for outboard wheels inop |
| Master caution system inop |
| 13 Do not use the autobrake. |
| 14 Do not arm the speedbrake for landing. |
| 15 Do not accomplish the following checklists: |
| RAM AIR TURBINE UNLOCKED |
| TRIM AIR |
| 16 Checklist Complete Except Deferred Items |
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| ▼ Continued on next page ▼ |
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| ▼ AC BUS OFF continued ▼ |
|---|
| Landing data VREF, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| Landing Checklist |
| Speedbrake |
| Landing gear Dowr |
| Flaps ■ ■ ■ |
| APU GENERATOR OFF |
| Message: APU GEN OFF |
| Condition: The generator control breaker is open. |
| Attempt only one reset 1 APU GEN switch Off, then ON |

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OFF BATTERY OFF

Message: BATTERY OFF

Condition: The battery switch is OFF.

BUS ISOLATED

Messages: L BUS ISOLATED R BUS ISOLATED

Condition: The bus tie breaker is open.

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GENERATOR DRIVE

Messages: L GEN DRIVE R GEN DRIVE

Condition: A generator drive malfunction occurs.

Action is **not** reversible.

- 2 Choose one:
 - ◆APU is available:

APU selector START, then ON

▶▶Go to step 3

APU is **not available:**

Plan to land at the nearest suitable airport.

▶ Go to step 3

3 Do **not** accomplish the following checklist:

GENERATOR OFF



OT USE FOR FLIGHT

757 Flight Crew Operations Manual

GENERATOR OFF

R GEN OFF Messages: L GEN OFF

Condition: The generator control breaker is open.

- Attempt only one reset
- GEN CONT switch (affected side). . Off, then ON
- Choose one: 2
 - GEN CONT OFF light extinguishes:

Continue normal operation.

- GEN CONT OFF light stays illuminated:
 - ▶ Go to step 3
- 3 Choose one:
 - ◆APU is **available**:

APU selector START, then ON

APU is **not available**:

Plan to land at the nearest suitable airport.



MAIN BATTERY DISCHARGE

Message: MAIN BAT DISCH

Condition: A main battery discharge occurs.



757 Flight Crew Operations Manual

| O F | | STANDBY BUS OFF |
|--------|------------|--|
| F | | |
| M | essag | e: STANDBY BUS OFF |
| Co | onditi | One or more of these buses are not energized: AC standby bus DC standby bus Battery bus |
| 1 | STI | BY POWER selector BAT |
| 2 | Ch | pose one: |
| | φS | tandby power bus OFF light is illuminated: |
| | | STBY POWER selectorAUTO |
| | | ►►Go to step 3 |
| | ♦ S | tandby power bus OFF light is not illuminated : |
| | | STBY POWER selectorAUTO |
| | | ►►Go to step 9 |
| 3 | Aut | copilot disengage switch Push |
| 4 | Ch | pose one: |
| | φE | lectric stabilizer trim is not operative : |
| | | ▶▶Go to step 5 |
| | ΦE | lectric stabilizer trim is operative: |
| | | Use electric stabilizer trim. |
| | | ►►Go to step 15 |
| | | |

Continued on next page ▼

▼ STANDBY BUS OFF continued ▼

- 5 Choose one:
 - ♦Alternate stabilizer trim is **not operative**:
 - ▶▶Go to step 6
 - ◆Alternate stabilizer trim is operative:

Use alternate stabilizer trim.

- ▶ Go to step 15
- 6 Engage left or right autopilot and allow autopilot to remain engaged until landing configuration is established.

Automatic stabilizer trim is available with autopilot engaged.

7 Avoid icing conditions.

Inoperative Items

Wing and engine anti-ice inop

Passenger address, flight, and cabin interphone systems inop

Forward and aft fuel crossfeed valves inop

Vary engine thrust as needed to maintain fuel balance as conditions allow.

Left VHF communication system inop

Rudder trim inop

8 Do the checklist for each consequential EICAS alert message as soon as practical.



9 Autopilot disengage switch Push

757 Flight Crew Operations Manual

▼ STANDBY BUS OFF continued ▼

10 Choose one:

- ◆Electric stabilizer trim is **not operative**:
 - ▶▶Go to step 11
- ◆Electric stabilizer trim is **operative**:

Use electric stabilizer trim.

▶ Go to step 22

11 Choose one:

- ◆Alternate stabilizer trim is **not operative**:
 - ▶▶Go to step 12
- ♦Alternate stabilizer trim is **operative**:

Use alternate stabilizer trim.

- ▶ Go to step 22
- 12 Plan to land with the standby buses powered normally.
- 13 Engage left or right autopilot and allow autopilot to remain engaged until landing configuration is established.

Automatic stabilizer trim is available with autopilot engaged.

14 Avoid icing conditions.

Inoperative Items

Wing and engine anti-ice inop

▼ STANDBY BUS OFF continued ▼

Passenger address, flight, and cabin interphone systems inop

Forward and aft fuel crossfeed valves inop

Vary engine thrust as needed to maintain fuel balance as conditions allow.

Left VHF communication system inop

Rudder trim inop

▶ Go to step 28

- 15 Passenger address, flight, and cabin interphone systems may be inoperative.
- 16 Wing and engine anti-ice may be inoperative.
- 17 Cabin altitude and differential pressure indicators may be inoperative.

Cabin altitude control AUTO 1 or AUTO 2 mode operates normally.

- 18 Left thrust reverser may be inoperative.
- 19 Left VHF communication system may be inoperative.
- 20 Rudder trim may be inoperative.
- 21 Do the checklist for each consequential EICAS alert message as soon as practical.

- 22 Plan to land with the standby buses powered normally.
- 23 Passenger address, flight, and cabin interphone systems may be inoperative.

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| | | continu | |
|--|--|---------|--|
| | | | |
| | | | |

- 24 Wing and engine anti-ice may be inoperative.
- 25 Cabin altitude and differential pressure indicators may be inoperative.

Cabin altitude control AUTO 1 or AUTO 2 mode operates normally.

- 26 Left VHF communication system may be inoperative.
- 27 Rudder trim may be inoperative.
- 28 **When** within approximately 30 minutes of landing:

STBY POWER selector BAT

▶▶Go to step 29

29 Choose one:

◆Standby power bus OFF light is **illuminated:**

Left thrust reverser may be inoperative.

Do the checklist for each consequential EICAS alert message prior to landing.

◆Standby power bus OFF light is **not illuminated:**

Power to all equipment on the standby buses is available.

Continue normal operation.

OFF UTILITY BUS OFF

Messages: L UTIL BUS OFF R UTIL BUS OFF

Condition: The galley and utility buses are not

energized.

1 Choose one:

◆Two generator sources are available:

UTILITY BUS switch Off, then ON

◆Two generator sources are not available:



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| Non-Normal Checklists | Chapter NNC |
|--|--------------------|
| Engines, APU | Section 7 |
| Table of Contents | |
| Aborted Engine Start [PW] | |
| Aborted Engine Start [RR] | |
| APU FIRE | |
| Dual Engine Failure [PW] | |
| Dual Engine Failure [RR] | |
| ENGINE FIRE or Severe Damage of Separation | |
| Engine Limit or Surge or Stall | 7 10 |
| Engine Tailpipe Fire | |
| | |
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| APU BLEED VALVE | ▶▶2.2 |
| APU BOTTLE | ▶▶8.11 |
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| APU FUEL VALVE | |
| APU GENERATOR OFF | |
| Dual Engine Failure [PW] | |
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| EEC OFF | |
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Non-Normal Checklists -Engines, APU

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| STARTER CUTOUT | 7.52 |
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Intentionally Blank

Aborted Engine Start [PW]

Option: Pratt and Whitney Engines

Condition: During a ground start, an abort start

condition occurs.

1 FUEL CONTROL switch

(affected side) CUTOFF

- 2 Choose one:
 - **♦**ENG START selector in **GND**:

Motor the engine for 30 seconds.

ENG START selector (affected side)....

iffected side). AUTO

- ◆ENG START selector in AUTO:
 - ▶▶Go to step 3
- 3 When N2 decreases below 20%:

ENG START selector (affected side) GND

Motor the engine for 30 seconds.

ENG START selector (affected side) AUTO

757 Flight Crew Operations Manual

Aborted Engine Start [RR]

| (| Option: | Rol | ls Ra | ovce | Eng | ines |
|---|---------|-------|--------|------|------|-------|
| • | Jpuon. | IVUI. | 19 1// | Jycc | LIIE | 11103 |

Condition: During a ground start, an abort start

condition occurs.

1 FUEL CONTROL switch

(affected side) CUTOFF

2 Choose one:

◆ENG START selector in **GND**:

Motor the engine for a minimum of 30 seconds and until EGT is 100° C or less.

ENG START selector

(affected side).....AUTO

◆ENG START selector in **AUTO**:

▶ Go to step 3

3 When N3 decreases below 20%:

ENG START selector (affected side) GND

Motor the engine for a minimum of 30 seconds and until EGT is 100° C or less.

ENG START selector (affected side) AUTO

Dual Engine Failure [PW]

Option: Pratt and Whitney Engines

Note: SEI maximum EGT limit is inflight start EGT

limit.

6 Maintain airspeed as indicated below:

Repeat above step as needed.

Above 35,000 feet use 240 knots.

35,000 feet or below use 250 knots minimum.

Note: OVSPD light and associated aural warning

will indicate Vmo/Mmo exceedances.

Note: Cabin altitude warning may occur during

descent.

| | ▼ Dual Engine Failure [PW] continued ▼ |
|-----|---|
| 7 | Choose one: |
| | ◆APU is not available : |
| | ▶▶Go to step 9 |
| | ◆APU is available : |
| | ▶▶Go to step 8 |
| | |
| | Do not wait for successful engine start(s) prior to starting the APU |
| 8 , | APU selector START, then ON |
| 9 | Choose one: |
| | ♦Either or both engines started : |
| | ▶▶Go to step 13 |
| | ◆Both engines remain failed: |
| | ►►Go to step 10 |
| 10 | Thrust levers (both) Idle |
| 11 | Engines may accelerate to idle very slowly, especially at high altitude. Slow acceleration may be incorrectly interpreted as a hung start or an engine malfunction. If N2 is steadily increasing, and EGT remains within limits, the start is progressing normally. |
| 12 | FUEL CONTROL switches (both) CUTOFF for approximately 30 seconds, then RUN for approximately 30 seconds. Repeat until engine start is achieved |

▼ Dual Engine Failure [PW] continued **▼**

- 13 Activate the FMC route.
- 14 Enter the FMC performance data.
- 15 Choose one:
 - ♦All ALIGN lights are **not** illuminated:
 - ▶▶Go to step 18
 - Any ALIGN light is illuminated:
 - ▶▶Go to step 16

Action is **not** reversible. Do this step only for the affected IRS(s)

- 16 IRS MODE selector (affected IRS).....ATT
- 17 Enter heading on IRS control panel or POS INIT page of FMC.

Note: Cabin altitude warning may occur during descent.

18 Choose one:

♦Both engines are **started**:

- ♦An engine stays failed:
 - ► Go to the Engine Failure or Shutdown checklist on page 7.16



757 Flight Crew Operations Manual

Dual Engine Failure [RR]

| Option: Rolls Royce Engine |
|----------------------------|
|----------------------------|

Condition: One of these occurs on both engines: Engine flameout •No response to thrust lever movement ENG START selectors (both)..... FLT 1 2 Thrust levers (both) Idle Do not advance thrust levers during engine recovery until above 50% N3 3 FUEL CONTROL switches (both)CUTOFF, then RUN **If** engine appears stalled **or** EGT approaches the Standby Engine Indicator placard limit: Repeat above step as needed. **Note:** SEI maximum EGT limit is inflight start EGT limit. 5 RAM AIR TURB switch Maintain airspeed as indicated below. Above 30,000 feet use 240 knots.

Note: OVSPD light and associated aural warning will indicate Vmo/Mmo exceedances.

Continued on next page

30,000 feet or below use 300 knots minimum.

▼ Dual Engine Failure [RR] continued **▼**

Note: Cabin altitude warning may occur during descent.

- 7 Choose one:
 - ◆APU is **not available**:
 - ▶ Go to step 9
 - ♦APU is **available**:
 - ▶ Go to step 8

Do **not** wait for successful engine start(s) prior to starting the APU

- 8 APU selector START, then ON
- 9 Choose one:
 - **♦Either or both** engines **started**:
 - ▶ Go to step 13
 - ◆Both engines remain failed:
 - ▶ Go to step 10
- 10 Thrust levers (both) Idle
- 11 Engines may accelerate to idle very slowly, especially at high altitude. Slow acceleration may be incorrectly interpreted as a hung start or an engine malfunction. If N3 is steadily increasing, and EGT remains within limits, the start is progressing normally.
 - **▼** Continued on next page **▼**

757 Flight Crew Operations Manual

▼ Dual Engine Failure [RR] continued ▼

12 FUEL CONTROL

switches (both) CUTOFF for approximately 30 seconds, then RUN for approximately 30 seconds.

Repeat until engine start is achieved

- 13 Activate the FMC route.
- 14 Enter the FMC performance data.
- 15 Choose one:
 - **♦All** ALIGN lights are **not** illuminated:
 - ▶▶Go to step 18
 - ◆Any ALIGN light is illuminated:
 - ▶ Go to step 16

Action is **not** reversible. Do this step only for the affected IRS(s)

- 16 IRS MODE selector (affected IRS) ATT
- 17 Enter heading on IRS control panel or POS INIT page of FMC.

Note: Cabin altitude warning may occur during descent.

▼ Dual Engine Failure [RR] continued **▼**

18 Choose one:

♦Both engines are **started**:

♦An engine stays failed:

► Go to the Engine Failure or Shutdown checklist on page 7.16



757 Flight Crew Operations Manual

Engine Limit or Surge or Stall

Condition: One or more of these occur:

- Engine indications are unusual
- Engine indications are rapidly approaching or exceeding limits
- Unusual engine noises are heard
- •There is no response to thrust lever movement or the response is abnormal.
- 1 A/T ARM switch OFF
- 2 Thrust lever (affected side) Confirm . .Retard until indications remain within normal limits or the thrust lever is at Idle
- 3 Choose one:
 - ♦Indications are **abnormal or** EGT continues to **increase**:

After shutdown, a restart may be attempted if there is N1 rotation and no abnormal airframe vibration.

▶► Go to the Engine Failure or Shutdown checklist on page 7.16



- ◆Indications stabilized and EGT stabilized or decreasing:
 - ▶ Go to step 4

▼ Engine Limit or Surge or Stall continued **▼**

- 4 Thrust lever (affected side) . . Advance slowly and check that RPM and EGT follow thrust lever movement
- 5 Choose one:
 - ◆Engine acceleration is **normal**:

Operate engine normally or at a reduced thrust level which is surge and stall free.

- ♦Engine acceleration is **not normal**:
 - ▶ Go to step 6
- 6 Choose one:
 - ◆EGT is **normal**:
 - ▶ Go to step 7
 - **♦**EGT is **not normal**:

After shutdown, a restart may be attempted if there is N1 rotation and no abnormal airframe vibration.

▶ Go to the Engine Failure or Shutdown checklist on page 7.16



7 ENG BLEED AIR switch (affected side) Off

| | ▼ Engine Limit or Surge or Stall continued ▼ |
|--------|---|
| 8 | Choose one: ◆Engine responds: ▶ Go to step 9 |
| | ◆Engine does not respond : Continue engine operation at idle. ► ► Go to step 9 |
| 9 | ENG BLEED AIR switch (affected side) On ■ ■ ■ ■ |
| FA | APU FAULT —— |
| Co | essage: APU FAULT ondition: An APU automatic shutdown occurs. |
| 1 2 | |
| | ◆FAULT light stays illuminated : |
| | ◆FAULT light stays illuminated: ■ ■ ■ ■ ◆FAULT light extinguishes: ▶ Go to step 3 |

Message: APU FUEL VAL

Condition: The APU fuel valve is not in the commanded position.

1 APU selector OFF

2 Do **not** start the APU.

INOP

EEC OFF

Messages: L EEC OFF R EEC OFF

Condition: The EEC switch is off.



ENGINE CONTROLS

Option: Pratt and Whitney Engines

Message: ENGINE CONTROLS

Condition: An EEC system fault occurs.



757 Flight Crew Operations Manual

| INOF | | EN | IGINE EEC | |
|-------|--------|----------------------------|---|--------------|
| | _ | | | |
| Messa | ages: | L ENG EEC | R ENG EEC | |
| Cond | ition: | The EEC is inc | operative. | |
| Objec | ctive: | To operate bomode. | th engines in the same | control |
| 1 A, | /T A | RM switch | | OFF |
| 2 TI | hrus | t levers (both) | Retard to mid | position |
| | Thi | s prevents exc | ceeding thrust limits. | |
| 3 C | hoos | se one: | | |
| | | esponding ENO minated: | G LIMITER INOP light i | S |
| | | ENG LIMITER switch (affect | R ted side) | Off |
| | | | ates the limiter, re-est gine control, and allow mally. | |
| | | Observe eng | ine limits. | |
| | | Do not acco | mplish the following ch | necklist: |
| | | ENGIN | E LIMITER | |
| | | ▶ ▶ Go to st | ер 4 | |
| | | responding ENG ninated: | G LIMITER INOP light i | s not |
| | | ▶▶Go to st | ер 4 | |
| | | | | |

▼ ENGINE EEC continued ▼

| 4 | \sim 1 | | | |
|---|------------|--------|------------|----|
| / | (h | oose | α n | ٠. |
| _ | \ . | 111111 | () | |

♦ELEC ENG CONT INOP stays illuminated:

L ELEC ENG CONT switch Off

R ELEC ENG CONT switch Off

Observe thrust limits.

♦ELEC ENG CONT INOP extinguishes:



757 Flight Crew Operations Manual

Engine Failure or Shutdown

| Co | One of these occurs: An engine failure An engine flameout Another checklist directs an engine shutdown |
|----|---|
| 1 | A/T ARM switch OFF |
| 2 | Thrust lever (affected side) . Confirm Idle |
| 3 | If engine conditions allow, operate at idle for two minutes to allow engine to cool and stabilize. |
| 4 | FUEL CONTROL switch (affected side) Confirm CUTOFF |
| 5 | Choose one: |
| | ♦APU is not available : |
| | ▶▶Go to step 7 |
| | ♦APU is available: |
| | ►►Go to step 6 |
| 6 | APU selectorSTART, then ON |
| 7 | GND PROX FLAP OVRD switch OVRD |
| 8 | Transponder mode selector |
| 9 | Plan to land at the nearest suitable airport. |
| 10 | If wing anti-ice required: |
| | PACK control selector (affected side) OFF |
| | ISOLATION switch On |
| | ▼ Continued on next page ▼ |

| ▼ Engine Failure or Shutdown continued ▼ |
|--|
| When wing anti-ice no longer required: |
| ISOLATION switch Off |
| 11 Use flaps 20 and VREF 20 for landing. |
| 12 Use flaps 5 for go-around. |
| 13 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter. |
| 14 Do not accomplish the following checklists: |
| ENGINE SHUTDOWN |
| PACK OFF |
| 15 Checklist Complete Except Deferred Items |

st Complete Except Deferred Items

757 Flight Crew Operations Manual

| | ▼ Engine Failur | re or Shutd | own continu | ued ▼ | |
|------------|---------------------------------|-------------|-------------|-------------|-----|
| | Defe | erred It | tems | | |
| Descent | Checklist | | | | |
| Pressuri | zation | | | . LDG ALT | |
| Recall . | | | | Chec | ked |
| Autobra | ke | | | | |
| Landing | data | V R | EF 20, M | 1inimums_ | |
| Approac | h briefing | | | Comple | ted |
| | h Checklist | | | | |
| Altimete | rs | | | | |
| Landing | Checklist | | | | |
| Speedbr | ake | | | ARN | 1ED |
| Landing | gear | | | Do | own |
| Flaps | | | | | .20 |
| | | | | | |
| | ENCIN | E ELIEL | FILTER | | |
| | | | | | |
| Messages: | L ENG FUEL FI | LLI | R ENG F | UEL FILI | |
| Condition: | Fuel contamine the fuel filter. | | an cause | fuel to byp | ass |
| | | | | | |

1 Erratic engine operation and flameout may occur due to fuel contamination.

757 Flight Crew Operations Manual



ENGINE FUEL VALVE

Messages: L ENG FUEL VAL

R ENG FUEL VAL

Condition: The engine fuel valve is not in the

commanded position.

- 1 Choose one:
 - ♦FUEL CONTROL switch is **not** in CUTOFF:

♦FUEL CONTROL switch is in **CUTOFF**:

The engine may continue to run for approximately 1 minute.

- ▶ Go to step 2
- 2 Choose one:

♦In flight:



♦On the **ground**:

Do **not** attempt engine start.



757 Flight Crew Operations Manual

Engine Indication Fluctuations

| Op | otion: Ro | lls Royce Engines |
|----|------------------|---|
| Co | ondition: | Engine EPR, N1,EGT, N2 and Fuel Flow fluctuations not approaching or exceeding limits indicate an engine probe has failed |
| 1 | A/T AI | RM switch OFF |
| 2 | Thrust (affec | t lever ted side) RETARD TO MID POSITION |
| | | events exceeding thrust limits when activating the electronic engine control |
| 3 | _ | ENG CONTROL (affected side) Off |
| 4 | Thrust (affec | t lever ted side) SET 75% N1 MINIMUM |
| | | s thrust to determine if fluctuations are sociated with EEC |
| 5 | Choos | e one: |
| | ♦N1, | EGT, N2 and Fuel Flow indications continue |

- N1, EGT, N2 and Fuel Flow indications continue to fluctuate or approach a limit:
 - ► Go to the Engine Limit or Surge or Stall checklist on page 7.10
- ◆All indications except EPR stabilize:
 - ▶▶Go to step 6

▼ Engine Indication Fluctuations continued ▼ 6 Thrust lever (other side) RETARD TO MID POSITION Prevents exceeding thrust limits when deactivating the electronic engine control. 7 ELEC ENG CONTROL switch (other side) OFF 8 Continue normal operations with both engines 9 Do not use autothrottle. 10 Observe thrust limits. 11 Do not accomplish the following checklist: EEC OFF

757 Flight Crew Operations Manual

Engine In-flight Start [PW]

Option: Pratt and Whitney Engines.

Condition: An engine start is needed after a shutdown and there is:

- •N1 rotation
- No fire
- No abnormal airframe vibration
- 1 Check altitude and airspeed. Starts are not assured outside the EICAS envelope.
- 2 Engine may accelerate to idle very slowly, especially at high altitude. Slow acceleration may be incorrectly interpreted as a hung start or an engine malfunction. If N2 is steadily increasing, and EGT remains within limits, the start is progressing normally.
- 3 Choose one:
 - **♦**X-BLD is **shown**:
 - ▶▶Go to step 7
 - ♦X-BLD is not shown:
 - ► Go to step 4
- 4 ENG START selector (affected side)..... FLT
- 5 FUEL CONTROL switch......RUN
 - Continued on next page

▼ Engine In-flight Start [PW] continued **▼**

6 Choose one:

◆EGT does **not increase** in 30 seconds **or** another abort start condition as listed in normal procedures **occurs**:

FUEL CONTROL switch (affected side).... Confirm. CUTOFF

▶▶Go to step 17

◆EGT **increases** in 30 seconds **and** another abort start condition as listed in normal procedures does **not occur**:

▶▶Go to step 11

| ▼ Continued on next page ▼ | | | |
|----------------------------|---|--|--|
| 10 | 10 ENG START selector (affected side) $\dots \dots$ GND | | |
| 9 | Ignition selector BOTH | | |
| 8 | ISOLATION switch On | | |
| 7 | PACK control selector (affected side) OFF | | |

757 Flight Crew Operations Manual

▼ Engine In-flight Start [PW] continued **▼**

When N2 exceeds minimum fuel on command bug:

FUEL CONTROL switch RUN

Choose one:

◆EGT does **not increase** in 30 seconds **or** another abort start condition as listed in normal procedures **occurs**:

FUEL CONTROL switch (affected side)Confirm CUTOFF ENG START selector (affected side) AUTO

▶ ▶ Go to step 17

◆EGT **increases** in 30 seconds **and** another abort start condition as listed in normal procedures does **not occur**:

▶ Go to step 11

▼ Engine In-flight Start [PW] continued **▼**

| | ▼ Engine In-flight Start [PW] continued ▼ | | | |
|---|--|--|--|--|
| 11 Choose one: | | | | |
| | ◆Engine does not start : | | | |
| | FUEL CONTROL switch (affected side) Confirm CUTOFF | | | |
| | ENG START selector (affected side)AUTO | | | |
| | ▶▶Go to step 17 | | | |
| | ◆Engine starts : | | | |
| | ▶▶Go to step 12 | | | |
| 12 | ENG START selector (affected side) AUTO | | | |
| 13 | PACK control selectors (both)AUTO | | | |
| 14 | ISOLATION switchOff | | | |
| 15 | 15 Transponder mode selector | | | |
| 16 GND PROX FLAP OVRD switch Off ■ ■ ■ ■ | | | | |
| 17 | Plan to land at the nearest suitable airport. | | | |
| 18 | If wing anti-ice required: | | | |
| | PACK control selector (affected side) OFF | | | |
| | ISOLATION switch On | | | |
| | When wing anti-ice no longer required: | | | |
| | ISOLATION switch Off | | | |
| | | | | |

757 Flight Crew Operations Manual

| \blacksquare | Engine | In-flight | Start | [PW1 | continued` | ▾ |
|----------------|---------------|-------------|-------|------|------------|---|
| | | III 111911C | Jui | | continuca | |

- 19 Use flaps 20 and VREF 20 for landing.
- 20 Use flaps 5 for go-around.
- 21 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 22 Do **not** accomplish the following checklists:

ENGINE SHUTDOWN

PACK OFF

23 Checklist Complete Except Deferred Items

| Deferred Items |
|--------------------------------|
| Descent Checklist |
| PressurizationLDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 20, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| ▼ Continued on next page ▼ |



757 Flight Crew Operations Manual

| ▼ Engine In-flight Start [PW] continued ▼ |
|---|
| Flaps |
| |

757 Flight Crew Operations Manual

Engine In-flight Start [RR]

Option: Rolls Royce Engines.

Condition: An engine start is needed after a shutdown and there is:

- •N1 rotation
- No fire
- No abnormal airframe vibration
- 1 Check altitude and airspeed. Starts are not assured outside the EICAS envelope.
- 2 Engine may accelerate to idle very slowly, especially at high altitude. The time from fuel control switch to RUN to stabilized idle may be as long as 2 minutes. Slow acceleration may be incorrectly interpreted as a hung start or an engine malfunction. If N3 is steadily increasing, and EGT remains within limits, the start is progressing normally.
- 3 Choose one:

♦X-BLD is **shown**:

▶ Go to step 7

X-BLD is not shown:

▶▶Go to step 4

4 ENG START selector (affected side)..... FLT

Continued on next page

| _ | |
|---|---|
| | ▼ Engine In-flight Start [RR] continued ▼ |
| 5 | Choose one: |
| | ◆EGT is 0 degrees C: |
| | FUEL CONTROL switch (affected side)RICH |
| | ▶▶Go to step 12 |
| | ◆EGT is above 0 degrees C : |
| | FUEL CONTROL switch (affected side)RUN |
| | ▶▶Go to step 6 |
| | ▼ Continued on next page ▼ |

757 Flight Crew Operations Manual

▼ Engine In-flight Start [RR] continued **▼**

| _ | \sim 1 | |
|----------|----------|------|
| ^ | (hacca | ana: |
| U | Choose | une. |

◆ Light up is obtained, but EGT and N3 stay low, with no increase for approximately 10 seconds:

FUEL CONTROL switch (affected side) RICH

▶▶Go to step 12

◆ EGT **increases** in 30 seconds **and** another abort start condition as listed in normal procedures does **not occur**:

▶▶Go to step 14

◆ EGT does **not increase** in 30 seconds **or** another abort start condition as listed in normal procedures **occurs**:

FUEL CONTROL switch (affected side) . . Confirm CUTOFF ENG START selector

(affected side) AUTO

▶▶Go to step 19

| 7 | PACK control | selector | (affected | side) | | | | OFF |
|---|--------------|----------|-----------|-------|--|--|--|-----|
|---|--------------|----------|-----------|-------|--|--|--|-----|

8 ISOLATION switch On

9 Ignition selector BOTH

10 ENG START selector (affected side)......GND

When N3 is at a minimum of 20%:

FUEL CONTROL switch RUN

Continued on next page

▼ Engine In-flight Start [RR] continued **▼**

11 Choose one:

- ◆EGT **increases** in 30 seconds **and** another abort start condition as listed in normal procedures does **not occur**:
 - ▶▶Go to step 14
- ◆EGT does **not increase** in 30 seconds **or** another abort start condition as listed in normal procedures **occurs**:

▼ Continued on next page **▼**

757 Flight Crew Operations Manual

▼ Engine In-flight Start [RR] continued ▼

| _ | $\overline{}$ | \sim 1 | | | | |
|---|---------------|----------|--------|-------|--------|-----|
| 1 | , | ľr | \sim | റമേ | \sim | ne: |
| _ | _ | . | w | JJJC. | | uc. |

EGT increases in 30 seconds and another abort start condition as listed in normal procedures does not occur:

▶ Go to step 13

EGT does **not increase** in 30 seconds **or** another abort start condition as listed in normal procedures occurs:

| FUEL CONTROL switch (affected side) Confirm CUTOFF |
|--|
| ENG START selector (affected side)AUTO |
| |

▶ Go to step 19

| 13 FUEL CONTROL switch (affected side) RUN |
|--|
| 14 ENG START selector (affected side) AUTO |
| 15 PACK control selectors (both)AUTO |
| 16 ISOLATION switch Off |
| 17 Transponder mode selector |
| 18 GND PROX FLAP OVRD switch \dots Off |
| |

19 Plan to land at the nearest suitable airport.

20 **If** wing anti-ice required:

| PACK control selector (affected side) | OFF |
|---------------------------------------|-----|
| ICOLATION cwitch | On |

Continued on next page ▼

| ▼ Engine In-flight Start [RR] continued ▼ |
|--|
| When wing anti-ice no longer required: |
| ISOLATION switch Off |
| 21 Use flaps 20 and VREF 20 for landing. |
| 22 Use flaps 5 for go-around. |
| 23 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter. |
| 24 Do not accomplish the following checklists: |
| ENGINE SHUTDOWN |
| PACK OFF |
| 25 Checklist Complete Except Deferred Items |

Continued on next page

757 Flight Crew Operations Manual

| ▼ Engine In-flight Start [RR] continued ▼ |
|---|
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 20, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| Flaps |
| |

ENG LIM _ PROT

ENGINE LIMIT PROTECTION

Option: Pratt and Whitney Engines

Messages: L ENG LIM PROT R ENG LIM PROT

Condition: The EEC is operating in N2 mode.

- 1 Observe thrust limits
- 2 Engine response may not be synchronized with rapid thrust lever movement
- 3 Anticipate increased thrust lever stagger at high power at low altitude
- 4 Autothrottle is inoperative



INOP

ENGINE LIMITER

Option: Rolls Royce Engines

Messages: L ENG LIMITER R ENG LIMITER

Condition: The engine limiter has failed.

- 1 Autothrottle disconnect switch Push
- 2 Thrust lever (affected side) Retard to mid position
- 3 ENG LIMITER switch (affected side) Off
 Observe engine limits
- 4 Autothrottle Engage Select desired mode



757 Flight Crew Operations Manual

ENGINE OIL PRESSURE [PW]

Option: Pratt and Whitney Engines

L ENG OIL PRESS

R ENG OIL PRESS

Messages: L ENG OIL PRESS R ENG OIL PRESS

Condition: The oil pressure is low.

- 1 Choose one:
 - ♦Oil pressure indication **normal**:

Operate engine normally.

Oil pressure indication in amber band:

Autothrottle disconnect switch.... Push Reduce thrust to minimum required.

- ♦Oil pressure indication at or below red line limit:
 - ▶ Go to the Engine Failure or Shutdown checklist on page 7.16

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757 Flight Crew Operations Manual

ENGINE OIL PRESSURE [RR]

Option: Rolls Royce Engines

L ENG OIL PRESS

R ENG OIL PRESS

Messages: L ENG OIL PRESS R ENG OIL PRESS

Condition: The oil pressure is low.

- 1 Choose one:
 - ♦Oil pressure indication **normal**:

Operate engine normally.

Oil pressure indication in amber band:

Autothrottle disconnect switch.... Push

Thrust lever

(affected side)....Confirm ... Move to mid position

- ▶ Go to step 2
- ♦Oil pressure indication at or below red line limit:
 - ► Go to the Engine Failure or Shutdown checklist on page 7.16



▼ Continued on next page ▼

▼ ENGINE OIL PRESSURE [RR] continued ▼

- 2 Choose one:
 - ♦ Oil pressure **can** be maintained above amber band:
 - Oil pressure cannot be maintained above amber band:
 - ► Go to the Engine Failure or Shutdown checklist on page 7.16

Engine Oil Temperature [PW]

Option: Pratt and Whitney Engines

Condition: The oil temperature is high.

- 1 A/T ARM switch OFF
- 2 Thrust lever (affected side) Confirm. . . Retard slowly until the temperature decreases
- 3 If temperature is in the amber band 20 minutes or above upper red line limit:
 - ▶ Go to the Engine Failure or Shutdown checklist on page 7.16

757 Flight Crew Operations Manual

Engine Oil Temperature [RR1]

Option: Rolls Royce Engines

Condition: The oil temperature is high.

- 1 A/T ARM switch OFF
- 2 Thrust lever (affected side) Confirm Move to mid position
- 3 **If** temperature is above red line limit:
 - ▶ Go to the Engine Failure or Shutdown checklist on page 7.16

ENGINE SHUTDOWN

Messages: L ENG SHUTDOWN R ENG SHUTDOWN

Condition: The engine was shutdown by the fuel control

switch or the engine fire switch.



757 Flight Crew Operations Manual

VALVE

ENGINE STARTER

Messages: L ENG STARTER R ENG STARTER

Condition: The start valve is not open.

1 ENG START selector (affected side) AUTO

This prevents bleed air from entering starter if valve subsequently opens.

2 Choose one:

♦On the **ground**:

In flight:

Increase airspeed until X-BLD no longer displayed.



757 Flight Crew Operations Manual

ENGINE STATOR

| | | ENGIN | ESTATUR | |
|----|---------------|------------------------------------|---|-----------|
| Op | otion: Pra | att and Whitney Engi | nes | |
| M | essages: | L ENG STATOR | R ENG STATOR | ₹ |
| Co | ondition: | The EEC is not of stator vane actu | capable of controllin | g the |
| 1 | A/T A | RM Switch | | OFF |
| 2 | - | | of any of the followin se engine flameout: | g for the |
| | Th | rust lever | | |
| | En | gine anti-ice swit | tch | |
| | Wi | ng anti-ice switch | h | |
| | Pa | ck control selecto | or | |
| | Re | circulation fan sw | vitch | |
| 3 | Choos | se one: | | |
| | ♦APU | is not available | e: | |
| | | ► ► Go to step | 5 | |
| | ◆APU | is available : | | |
| | | ► ► Go to step | 4 | |
| 4 | APU s | selector | START, | then ON |
| 5 | If eng | gine fails or flame | es out: | |
| | Do | not attempt an | engine in-flight star | t. |
| | >) | Go to the Engi | ne Failure or Shut ge 7.16 | down |

Engine Vibration

Option: Rolls Royce Engines

Condition: Vibration indication is in the amber band

- 1 Choose one:
 - ♦In icing conditions:

ENGINE ANTI-ICE switches (both) ... ON

Note: Vibration levels in amber band on either or both engines not accompanied by other failure indications are considered normal.

◆Not in icing conditions:

▶ Go to step 2

- 2 A/T ARM switch OFF
- 3 Thrust lever (affected side) Confirm RETARD

Operate at a thrust level which will maintain vibration below amber band

If vibration remains in amber band with the thrust lever at idle:

Go to the Engine Failure or Shutdown checklist on page 7.16

757 Flight Crew Operations Manual

SPAR VALVE

FUEL SPAR VALVE

Messages: L FUEL SPAR VAL R FUEL SPAR VAL

Condition: The spar fuel valve is not in the commanded

position.

1 Choose one:

♦In **flight**:

♦On the **ground**:

Do **not** attempt engine start.



Intentionally Blank

757 Flight Crew Operations Manual

OIL FILTER [PW]

Option: Pratt and Whitney Engines

Messages: L OIL FILTER R OIL FILTER

Condition: Oil filter contamination can cause oil to

bypass the oil filter.

- 1 Choose one:
 - ♦On the **ground**:

Allow oil temp. to increase above 35° C

If Oil Filter message stays shown:

FUEL CONTROL switch

(affected side)..... Confirm.. CUTOFF

- ◆In flight:
 - ▶ Go to step 2
- 2 A/T ARM switch OFF
- 3 Thrust lever (affected side) Confirm . Retard slowly until the message blanks

or the thrust lever is at idle

Continued on next page

▼ OIL FILTER [PW] continued **▼**

4 Choose one:

♦OIL FILTER message **not displayed**:

Continue operating at reduced thrust.

♦OIL FILTER message remains displayed:

► Go to the Engine Failure or Shutdown checklist on page 7.16

OIL FILTER [RR]

Option: Rolls Royce Engines

Messages: L OIL FILTER R OIL FILTER

Condition: Oil filter contamination can cause oil to

bypass the oil filter.

REVERSER ISOLATION VALVE

Messages: L REV ISLN VAL R REV ISLN VAL

Condition: A fault occurs in the thrust reverser system.

- 1 Additional system failures may cause inflight deployment.
- 2 Expect normal reverser operation after landing.



757 Flight Crew Operations Manual

REVERSER UNLOCKED

| Condition: The REV indication shows with reverse thrust not intentionally commanded. |
|--|
| 1 Reverse thrust lever Verify in t full down positi |
| 2 Choose one: |
| ♦With no yaw, loss of airspeed, or buffet: |
| Operate engine normally. ■ ■ ■ ■ |
| ◆With yaw, loss of airspeed, or buffet: |
| ► ► Go to step 3 |
| 3 A/T ARM switch |
| 4 Thrust lever (affected side) . Confirm Id |
| 5 FUEL CONTROL switch (affected side) Confirm CUTO |
| 6 Choose one: |
| ◆APU is not available : |
| ▶▶Go to step 8 |
| ♦APU is available : |
| ▶▶Go to step 7 |
| 7 APU selector START, then (|
| 8 GND PROX FLAP OVRD switch OVI |
| 9 Transponder mode selector |
| ▼ Continued on next page ▼ |

| ▼ REVERSER UNLOCKED continued ▼ | | |
|--|--|--|
| 10 Plan to land at the nearest suitable airport. | | |
| 11 If wing anti-ice needed: | | |
| PACK control selector (affected side) OFF | | |
| ISOLATION switch On | | |
| When wing anti-ice no longer needed: | | |
| ISOLATION switch Off | | |
| 12 Use flaps 20 and VREF 30 + 30 for landing. | | |
| 13 Use flaps 5 for go-around. | | |
| 14 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter. | | |
| 15 Do not accomplish the following checklists: | | |
| ENGINE SHUTDOWN | | |
| PACK OFF | | |
| 16 Checklist Complete Except Deferred Items | | |

▼ Continued on next page ▼

757 Flight Crew Operations Manual

| ▼ REVERSER UNLOCKED continued ▼ |
|-----------------------------------|
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 30+30, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| Flaps |
| |

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757 Flight Crew Operations Manual

| STARTER CUTOUT | | | |
|----------------|---------------|---|--------|
| М | essages | es: L STARTER CUTOUT R STARTER CUTO | UT |
| Co | ondition | n: The start valve is not closed. | |
| 1 | ENG | START selector (affected side) | AUTO |
| 2 Choose one: | | | |
| | ♦VA | ALVE light extinguishes : | |
| | ◆VA | ALVE light stays illuminated : | |
| | | ►►Go to step 3 | |
| 3 | ENG | BLEED AIR switch (affected side) | Off |
| 4 | ISOL | LATION switch | Off |
| 5 | APU | BLEED AIR Switch | Off |
| 6 | 6 Choose one: | | |
| | ♦Gro | round air source not in use: | |
| | | ▶▶Go to step 8 | |
| | ♦Gro | round air source in use : | |
| | | ► Go to step 7 | |
| 7 | Disco | connect the ground air source. | |
| 8 | WIN | NG ANTI-ICE switch | Off |
| | | This prevents possible asymmetrical ice but no the wings. | uildup |
| | | ▼ Continued on next page ▼ | |

▼ STARTER CUTOUT continued ▼

9 Avoid icing conditions.

Option: Pratt and Whitney Engines

10 PW Engines:

Engine and wing anti-ice on affected side is not available

11 Do **not** accomplish the following checklists:

ENGINE BLEED OFF

PACK OFF



757 Flight Crew Operations Manual

Volcanic Ash

Condition: Volcanic ash is suspected when one or more of these occur:

- •A static discharge around the windshield
- A bright glow in the engine inlets
- •Smoke or dust on the flight deck
- An acrid odor

Caution! Exit volcanic ash as quickly as possible. Consider a 180 degree turn.

| 1 | Don oxygen masks, as needed. |
|---|--|
| 2 | Establish crew communications (if needed). |
| 3 | A/T ARM switch OFF |
| | ☐ If conditions allow, run the engines at idle |
| 4 | Thrust levers (both) |
| 5 | ENG START selectors (both) FLT |
| 6 | RECIRC FAN switches (both) Off |
| 7 | ENGINE ANTI-ICE switches (both) ON |
| 8 | WING ANTI-ICE switch |
| 9 | Choose one: |
| | ◆APU is not available : |
| | ▶▶Go to step 11 |
| | ♦APU is available : |
| | ▶▶Go to step 10 |
| | |

Continued on next page

10 APU selector . . .

. . . START, then ON

▼ Volcanic Ash continued **▼**

11 Engines may accelerate to idle very slowly, especially at high altitude.

Note: Volcanic ash can cause non-normal system reactions such as:

- engine malfunctions, increasing EGT, engine stall or flameout
- decrease or loss of airspeed indications
- equipment overheat or smoke indications
- cargo fire indications

Option: Pratt and Whitney Engines

12 Slow acceleration may be incorrectly interpreted as a hung start or an engine malfunction. If N2 is steadily increasing, and EGT remains within limits, the start is progressing normally.

Option: Rolls Royce Engines

13 Slow acceleration may be incorrectly interpreted as a hung start or an engine malfunction. If N3 is steadily increasing, and EGT remains within limits, the start is progressing normally.

▼ Continued on next page **▼**

757 Flight Crew Operations Manual

▼ Volcanic Ash continued **▼**

14 Choose one:

- ◆Engines **not** flamed out or stalled **and** EGT **stabilized or decreasing**:
 - ▶ Go to step 15
- ◆Engines flamed out or stalled, or EGT rapidly approaching or exceeding limit:
 - ▶ Go to the Dual Engine Failure [PW] checklist on page 7.3
 - ► Go to the Dual Engine Failure [RR] checklist on page 7.6

- 15 Plan to land at the nearest suitable airport.
- 16 Do **not** accomplish the following checklist:

RECIRCULATION FAN



757 Flight Crew Operations Manual

| Non-Normal Checklists | Chapter NNC |
|--|--------------------|
| Fire Protection | Section 8 |
| Table of Contents | |
| APU FIRE | |
| ENGINE FIRE or Severe Damage of Separation | |
| Engine Tailpipe Fire | |
| Smoke, Fire or Fumes | |
| | |
| APU BOTTLE | 8.11 |
| APU FIRE | 8.1 |
| CARGO BOTTLE | 8.12 |
| CARGO FIRE | 8.13 |
| ENGINE BOTTLE | 8.15 |
| ENGINE FIRE or Severe Damage o | |
| Separation | 8.2 |
| ENGINE OVERHEAT [PW] | 8.16 |
| ENGINE OVERHEAT [RR] | 8.18 |
| Engine Tailpipe Fire | 8.6 |
| EQUIPMENT SMOKE | 8.19 |
| FIRE/OVERHEAT SYSTEM | 8.19 |
| Smoke or Fumes Removal | 8.20 |
| Smoke, Fire or Fumes | 8.8 |
| WHEEL WELL FIRE | |

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APU FIRE

Message: APU FIRE

Condition: Fire is detected in the APU.

- 1 APU fire switch....Confirm Pull, rotate to the stop, and hold for 1 second
- 2 Choose one:
 - ◆APU fire warning light **stays illuminated**:

 Plan to land at the nearest suitable airport.
 - ▶ Go to step 3
 - ◆APU fire warning light **extinguishes**:
 - ▶ Go to step 3
- 3 Do **not** accomplish the following checklists:

APU BOTTLE

APU FAULT



Messages: L ENGINE FIRE

757 Flight Crew Operations Manual

ENGINE FIRE Engine Severe Damage or Separation

R ENGINE FIRE

| Condition: One or more of these occur: • Engine fire warning • Airframe vibrations with unusual engine indications • Engine separation |
|---|
| 1 A/T ARM switch OFF |
| 2 Thrust lever (affected side) Confirm Idle |
| 3 FUEL CONTROL switch (affected side) Confirm CUTOFF |
| 4 Engine fire switch (affected side) Confirm Pull |
| 5 If the engine fire warning light stays illuminated: |
| Engine fire switch Rotate to the stop and hold for 1 second |
| If after 30 seconds the engine fire warning light stays illuminated: |
| Engine fire switch Rotate to the other stop and hold for 1 second |
| ▼ Continued on next page ▼ |
| |

▼ ENGINE FIRE or Severe Damage or Separation continued ▼

6 **If** high airframe vibration occurs and continues after engine shutdown:

Without delay, reduce airspeed and descend to a safe altitude which results in an acceptable vibration level.

If high airframe vibration returns and further airspeed reduction and descent are not practical, increasing the airspeed may reduce the vibration.

- 7 Choose one:
 - ◆APU is **not available**:
 - ▶ Go to step 9
 - ♦APU is **available**:
 - ▶ Go to step 8

| 8 | APU selector | . START, then ON |
|---|---------------------------|------------------|
| 9 | GND PROX FLAP OVRD switch | OVRD |

- 11 Plan to land at the nearest suitable airport.
- 12 If wing anti-ice required:

PACK control selector (affected side) OFF ISOLATION switch On

When wing anti-ice no longer required:

ISOLATION switch Off

▼ Continued on next page ▼

| ▼ ENGINE FIRE or Severe Damage or Separation continued ▼ |
|--|
| 13 Use flaps 20 and VREF 20 for landing. |
| 14 Use flaps 5 for go-around. |
| 15 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter. |
| 16 Do not accomplish the following checklists: |
| ENGINE BOTTLE |
| ENGINE SHUTDOWN |
| PACK OFF |
| 17 Checklist Complete Except Deferred Items |
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 20, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| Landing Checklist |
| Speedbrake |
| ▼ Continued on next nage ▼ |



| ▼ ENGINE FIRE or Severe Damage or Separation continued ▼ |
|--|
| Landing gear Dowr |
| Flaps |
| |

757 Flight Crew Operations Manual

Engine Tailpipe Fire

Condition: An engine tailpipe fire occurs on the ground with no engine fire warning.

- 1 FUEL CONTROL switch (affected side) CUTOFF
- 2 Advise the cabin.
- 3 Choose one:
 - ◆Bleed air is not available:

Advise the tower.



- ◆Bleed air is available:
 - ▶▶Go to step 4
- 4 PACK control selectors (both)..... OFF
- 5 ISOLATION switch On
- 6 Choose one:
 - ♦Affected ENG START selector is in **GND**:
 - ▶ Go to step 10
 - ◆Affected ENG START selector is **not** in GND:
 - ▶▶Go to step 7
 - ▶▶Go to step 8

Option: Pratt and Whitney Engines

7 Wait for N2 to decrease to 30%.

Option: Rolls Royce Engines

8 Wait for N3 to decrease to 30%.

lacktriangle Continued on next page lacktriangle

| | ▼ Engine Tailpipe Fire continued ▼ | | |
|----|--|--|--|
| 9 | ENG START selector (affected side)GND | | |
| 10 | Advise the tower. | | |
| 11 | When the Tailpipe Fire is extinguished: | | |
| | ENG START selector (affected side) AUTO | | |

757 Flight Crew Operations Manual

Smoke, Fire or Fumes

Condition: Smoke, fire or fumes occurs.

- 1 Diversion may be needed.
- 2 Don oxygen masks, as needed.
- 3 Establish crew and cabin communications.
- 4 Advise the cabin crew to turn off main IFE power switches.
- 5 Advise cabin crew that main cabin lighting will be turned off.
- 6 UTILITY BUS switches (both) Off
- 7 L RECIRC FANOff
- 8 APU BLEED AIR switch Off
- 9 **Anytime** the smoke or fumes becomes the greatest threat:
 - ▶ Go to the Smoke or Fumes Removal checklist on page 8.20

Continued on next page

▼ Smoke, Fire or Fumes continued **▼**

10 Choose one:

◆Source of the smoke, fire or fumes is both obvious and can be extinguished quickly:

Isolate and extinguish the source.

If possible remove power from the affected equipment by switch or circuit breaker in the flight deck or cabin.

- ▶▶Go to step 11
- ◆Source of the smoke, fire or fumes is **not** obvious or cannot be extinguished quickly:
 - ▶ Go to step 12

11 Choose one:

◆Source is visually **confirmed** to be extinguished **and** smoke or fumes are **decreasing**:

Continue flight at the Captain's discretion.

Restore unpowered items at the Captain's discretion.

▶ Go to the Smoke or Fumes Removal checklist on page 8.20, if needed

Source is visually not confirmed to be extinguished or smoke or fumes are not decreasing:

▶▶Go to step 12

12 EQUIP COOLING switch..... ALTN

▼ Continued on next page **▼**

| ▼ Smoke, Fire or Fumes continued ▼ |
|--|
| 13 Initiate a diversion to the nearest suitable airport while continuing the checklist. |
| 14 Consider an immediate landing if the smoke, fire or fumes situation becomes uncontrollable. |
| 15 Do not delay landing in an attempt to complete all of the following steps. |
| 16 ISOLATION switchOff |
| 17 R PACK control selector OFF |
| 18 Wait 2 minutes unless the smoke or fumes are increasing. |
| 19 Choose one: |
| ◆Smoke or fumes do not continue or are not increasing : |
| ▶▶Go to step 26 |
| ◆Smoke or fumes continue or are increasing: ► ► Go to step 20 |
| 20 R PACK control selector |
| 21 L PACK control selector OFF |
| 22 Wait 2 minutes unless the smoke or fumes are increasing. |
| ▼ Continued on next page ▼ |

▼ Smoke, Fire or Fumes continued **▼**

23 Choose one:

- ◆Smoke or fumes do **not continue** or are **not** increasing:
 - ▶ Go to step 26
- Smoke or fumes **continue** or are **increasing**:
 - ▶ Go to step 24
- 24 L PACK control selector AUTO
- 25 Consider an immediate landing.
- 26 Do **not** accomplish the following checklists:

UTILITY BUS OFF

PACK OFF

RECIRCULATION FAN

▶ Go to the Smoke or Fumes Removal checklist on page 8.20, if needed



APU BTL DISCH

APU BOTTLE

Message: APU BTL

Condition: The fire bottle pressure is low.



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DISCH CARGO BOTTLE

Messages: CARGO BTL 1 CARGO BTL 2

Condition: A fire bottle pressure is low.



CARGO FIRE



Messages: FWD CARGO FIRE AFT CARGO FIRE

Condition: Smoke is detected in the cargo

compartment.

- 1 CARGO FIRE ARM switch (FWD or AFT)......Confirm.....ARMED
- 2 CARGO FIRE BTL 1 DISCH switch Push and hold for 1 second

Note: DISCH light may require approximately 30 seconds to illuminate.

- 3 PACK control selector (either) Off
- 4 Plan to land at the nearest suitable airport.
- 5 Do **not** accomplish the following checklists:

CARGO BOTTLE

PACK OFF

RECIRCULATION FAN

6 **Wait** 80 minutes or during approach, whichever occurs first:

CARGO FIRE BTL 2 DISCH switch... Push and hold for 1 second

7 Checklist Complete Except Deferred Items

▼ Continued on next page ▼

| ▼ CARGO FIRE continued ▼ | |
|---|--|
| Deferred Items | |
| Descent Checklist | |
| Pressurization LDG ALT | |
| Recall | |
| Autobrake | |
| Landing data VREF, Minimums | |
| Approach briefing Completed | |
| Approach Checklist | |
| Altimeters | |
| During approach | |
| If second fire bottle has not been discharged: | |
| CARGO FIRE BTL 2 DISCH switch Push and hold for 1 second | |
| Warning! Inform ground personnel NOT to open any cargo door after landing until all passengers and crew have exited the airplane and fire fighting equipment is nearby. | |
| Landing Checklist | |
| Speedbrake | |
| Landing gear Down | |
| ▼ Continued on next page ▼ | |

757 Flight Crew Operations Manual

▼ CARGO FIRE continued **▼**

ENGINE BOTTLE

ENG BTL ENG BTL 1 DISCH 2 DISCH

Messages: ENG BTL 1 ENG BTL 2

Condition: The fire bottle pressure is low.

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ENGINE OVERHEAT [PW]

Option: Pratt and Whitney Engines

| L ENG | |
|-------|--|
| OVHT | |

R FNG

| | OVHT | | OVHT | |
|----|----------|----------------------------|-----------------|---------------------------------------|
| Me | essages: | L ENG OVE | IT | R ENG OVHT |
| Со | ndition: | An engine | overhe | at is detected. |
| 1 | ENG B | BLEED AIR | switch (| affected side)Off |
| 2 | ISOLA | TION swite | :h | Off |
| 3 | If the | L ENG OVI | HT light | is illuminated: |
| | API | J BLEED A | IR switc | h Off |
| 4 | WING | ANTI-ICE | switch . | Off |
| 5 | | icing condi fected side | | ngine and wing anti-ice on available. |
| 6 | Choos | e one: | | |
| | ♦ENG | OVHT ligh | t exting | guishes: |
| | | ▶ G o to | step 7 | , |
| | ♦ENG | OVHT ligh | t stays | illuminated: |
| | | ▶ Go to | the Er | ngine Failure or |

Shutdown checklist on page 7.16

Do **not** accomplish the following checklists:

ENGINE BLEED OFF

Continued on next page



▼ ENGINE OVERHEAT [PW] continued ▼

PACK OFF



757 Flight Crew Operations Manual

ENGINE OVERHEAT [RR]

Option: Rolls Royce Engines

| Op | otion: Rol | Is Royce Engines | |
|----|----------------|-----------------------------|--|
| | L ENG OVHT | R ENO | |
| Me | essages: | L ENG OVHT | R ENG OVHT |
| Сс | ondition: | An engine over | heat is detected. |
| 1 | ENG B | LEED AIR switch | n (affected side)Off |
| 2 | A/T AF | RM switch | OFF |
| 3 | Thrust | lever | |
| | (affect | , | onfirm Retard slowly until ENG OVHT light extinguishes or thrust lever is at idle |
| 4 | Choos | e one: | |
| | ♦ENG | OVHT light ext | inguishes: |
| | | Operate engin the remainder | e at reduced thrust level for of flight. |
| | | ► ► Go to step | 5 |
| | ◆ENG | OVHT light sta | ys illuminated: |
| | | | Engine Failure or checklist on page 7.16 |
| | | | |
| 5 | If wing | g anti-ice neede | ed: |
| | PAC | CK control select | tor (affected side) OFF |
| | ISC | LATION switch | On |
| | | ▼ Continue | d on next page ▼ |

FAIL P-RESET

FIRE/OVERHEAT SYSTEM

Condition: Smoke is sensed in the equipment cooling

Message: FIRE/OVHT SYS

system.

Condition: One or more of these occur:

- Engine fire and overheat detection is inoperative
- APU fire detection is inoperative
- Cargo fire detection is inoperative
- 1 FIRE/OVHT TEST SYS FAIL switch......Push

757 Flight Crew Operations Manual

Smoke or Fumes Removal

Condition: Smoke or fumes removal is needed.

- 1 Do this checklist **only** when directed by the Smoke, Fire or Fumes checklist.
- 2 Do not delay landing in an attempt to complete the following steps.

Warning! Do not turn an operating pack OFF. Selecting PACKS OFF will result in increased smoke concentrations.

- 3 Close the flight deck door.
- 4 LDG ALT selector Set 9,500 feet
- 5 CABIN ALTITUDE AUTO RATE control. MAX
- 6 Choose one:
 - ♦Smoke or fumes is **not persistent**:
 - ▶▶Go to step 9
 - ♦Smoke or fumes continue or are increasing:

▶ Go to step 7

- 7 Descend to 9,500 feet or below as soon as conditions permit.
- 8 When at 9,500 feet:

Cabin Altitude MODE SELECT.....MAN

CABIN ALTITUDE

MANUAL control Hold to CLIMB until outflow valve fully open

Continued on next page

▼ Smoke or Fumes Removal continued **▼**

9 Do **not** accomplish the following checklist: CABIN AUTOMATIC INOPERATIVE

▶ Go to the Smoke, Fire or Fumes checklist on page 8.8 and do the remaining steps



757 Flight Crew Operations Manual

| WHL | WELL |
|-----|------|
| FI | RE |

WHEEL WELL FIRE

Message: WHEEL WELL FIRE

Condition: Fire is detected in a main wheel well.

Maximum 270K/.82M

1 Landing gear lever.....DN

This attempts to extinguish the fire.

2 Plan to land at the nearest suitable airport.

Note: Do not use FMC fuel predictions with gear extended.

- 3 Flight with gear down increases fuel consumption and decreases climb performance. Refer to Gear Down performance tables in Performance Inflight chapter for flight planning.
- 4 Choose one:
 - Landing gear retraction is **not needed** for airplane performance:

Landing gear retraction is **needed** for airplane performance:

▶ Go to step 5

5 When WHL WELL FIRE light extinguishes:

Wait 20 minutes. This attempts to ensure the fire remains extinguished.

Landing gear lever UP, then OFF

| Non-Normal Checklists | Chapter NNC |
|--|--------------------|
| Flight Controls | Section 9 |
| Table of Contents | |
| All Flaps and Slats Up Landing | |
| AUTO SPEEDBRAKE | 9.3 |
| CONFIG FLAPS | ▶▶15.1 |
| CONFIG SPOILERS | ▶▶15.2 |
| CONFIG STABILIZER | ▶▶15.2 |
| FLAP LOAD RELIEF | 9.4 |
| FLIGHT CONTROL HYDRAULIC | 9.4 |
| FLIGHT CONTROL VALVES | 9.4 |
| Jammed or Restricted Flight Controls . | 9.5 |
| LEADING EDGE SLAT ASYMMETRY | 9.6 |
| LEADING EDGE SLAT DISAGREE | 9.10 |
| MACH/SPEED TRIM | 9.12 |
| RUDDER RATIO | 9.13 |
| SPEEDBRAKES EXTENDED | 9.13 |
| SPOILERS [Advisory] | 9.14 |
| STABILIZER TRIM | 9.14 |
| TRAILING EDGE FLAP ASYMMETRY | 9.15 |
| TRAILING EDGE FLAP DISAGREE | 9.18 |
| UNSCHEDULED STABILIZER TRIM | 9.22 |
| YAW DAMPER | 9.23 |

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All Flaps and Slats Up Landing

Condition: The leading edge slats and trailing edge flaps fail to extend.

- 1 Accomplish this checklist only when directed by the LEADING EDGE SLAT ASYMMETRY checklist or the TRAILING EDGE FLAP ASYMMETRY checklist
- 2 Do **not** slow below VREF 30 + 80 until established on final approach.
- 3 Limit bank angle to 15 degrees below VREF 30 + 80.

Note: Tail clearance is reduced on landing.

- 4 ENG START selectors (both)............CONT
- 5 Use VREF 30 + 50 for landing.
- 6 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 7 Checklist Complete Except Deferred Items

▼ Continued on next page ▼

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▼ All Flaps and Slats Up Landing continued ▼ **Deferred Items Descent Checklist** Pressurization LDG ALT Landing Data VREF 30 + 50, Minimums____ Approach Briefing Completed **Approach Checklist Landing Checklist** Landing gear Down Flaps......

| ΑU | TO |
|------------|-----|
| SPD | BRK |

AUTO SPEEDBRAKE

Message: AUTO SPEEDBRAKE

Condition: An automatic speedbrake fault occurs.

- 1 Do **not** arm the speedbrake lever.
- 2 Manually extend speedbrakes after landing.
- 3 Checklist Complete Except Deferred Items

| | • | |
|----------------------|-----------------------|---------------------------------------|
| | Deferred Items | |
| Descent Check | dist | |
| Pressurization. | | LDG ALT |
| Recall | | Checked |
| Autobrake | | · · · · · · · · · · · <u> </u> |
| Landing data . | VREF | , Minimums |
| Approach briefi | ing | Completed |
| Approach Chec | cklist | |
| Altimeters | | |
| Landing Check | list | |
| Speedbrake | | DOWN |
| Landing gear . | | Down |
| Flaps | | · · · · · · · · · · · · · · · · · · · |
| | | |

757 Flight Crew Operations Manual

TRAILING EDGE

FLAP LOAD RELIEF

Message: FLAP LD RELIEF

Condition: The flap load relief system is failed.

1 Check flap position and maintain the appropriate speed.

OFF

FLIGHT CONTROL HYDRAULIC

Messages: C FLT CONT HYD L FLT CONT HYD

R FLT CONT HYD

Condition: A flight control valve is closed.

1 All switches must be ON for flight.

OFF

FLIGHT CONTROL VALVES

OFF

Message: FLT CONT VALS

Condition: Two or more flight control shutoff

valves are closed.

1 L, C, and R FLT CONTROL SHUTOFF switches must be ON for flight.

Jammed or Restricted Flight Controls

Condition: A flight control is jammed or restricted in roll, pitch, or yaw.

- 1 Overpower the jammed or restricted system. Use maximum force, including a combined effort of both pilots, if needed.
- 2 If the failure could be due to freezing water and conditions allow, consider descent to a warmer temperature and attempt to overpower the jammed or restricted system again.
- 3 Choose one:
 - **♦**Faulty system can be **overpowered**:

Continue to overpower the jammed or restricted system as needed.

♦Faulty system **cannot** be overpowered:

Use operative flight controls, trim, and thrust as needed for airplane control.



| LEADING EDGE | LEADING EDGE SLAT ASYMMETRY |
|--------------------|---|
| Message: | LE SLAT ASYM |
| Condition: | The leading edge slats are not symmetrically extended. |
| Caution! | Limit airspeed to 240 knots maximum |
| | Do not use FMC fuel predictions with flaps extended. |
| 1 GND F | PROX FLAP OVRD switchOVRD |
| 2 Choos | e one: |
| ∳Indio | cated flap position is greater than 20: |
| | Use current flaps and VREF 20 for landing. |
| | ▶▶Go to step 10 |
| ◆Indid | cated flap position is 20 or less : |
| | ▶▶Go to step 3 |
| 3 Use tr landin | ailing edge flaps 20 and VREF 30 + 30 for g. |
| 4 ENG S | START selectors (both)CONT |
| 5 ALTN I | FLAPS selector Position to agree with FLAP lever |
| Do I | not arm the LE ALTN FLAPS switch |
| 6 (TE # | ALTN FLAPS switch ALTN |
| 7 ALTN I | FLAPS selector Extend or retract trailing edge flaps as needed |
| | ▼ Continued on next page ▼ |

▼ LEADING EDGE SLAT ASYMMETRY continued ▼

Note: Flap indicator may not move until flaps 5 or greater is selected.

- 8 Choose one:
 - **♦**TE FLAP DISAGREE message is **not** shown:
 - ▶ Go to step 10
 - ◆TE FLAP DISAGREE message is shown:
 - ▶ Go to step 9
 - **▼** Continued on next page **▼**

757 Flight Crew Operations Manual

▼ LEADING EDGE SLAT ASYMMETRY continued ▼

- 9 Choose one:
 - ♦Indicated flap position is **less than 5**:

Do **not** accomplish the following checklist:

TRAILING EDGE FLAP ASYMMETRY
TRAILING EDGE FLAP DISAGREE

► Go to the All Flaps and Slats Up Landing checklist on page 9.1

Indicated flap position is at or greater than 5 and less than 20:

Use current flaps and VREF 30 + 40 for landing.

- ▶ Go to step 10
- ◆Indicated flap position is 20:

Use current flaps and VREF 30 + 30 for landing.

- ▶ Go to step 10
- 10 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 11 Checklist Complete Except Deferred Items

Continued on next page

▼ LEADING EDGE SLAT ASYMMETRY continued ▼

Deferred Items Descent Checklist Pressurization.....LDG ALT_

Landing Checklist



757 Flight Crew Operations Manual

| | ADING EDGE | LEADING EDGE SLAT DISAGREE |
|--------|---------------|--|
| М | essage: | LE SLAT DISAGREE |
| Co | ondition: | The leading edge slats are not in the commanded position. |
| Ca | aution | ! Limit airspeed to 240 knots maximum. |
| 1 2 | Choos | PROX FLAP OVRD switchOVRD se one: cated flap position greater than 20: |
| | Titul | Use current flaps and VREF 20 for landing. |
| | | ▶ Go to step 10 |
| | 1, | • |
| | ◆Inai | cated flap position 20 or less : |
| | | ▶▶Go to step 3 |
| 3 4 | | aps 20 and VREF 20 for landing. |
| | ♦FLAF | Plever position greater than 20: |
| | | ALTN FLAPS selector20 |
| | | ▶▶Go to step 6 |
| | ♦ FLAF | P lever position 20 or less : |
| | | ▶▶Go to step 5 |
| 5 | ALTN | FLAPS selector Position to agree with FLAP lever |

▼ Continued on next page ▼

| | ▼ LEADING EDGE SLAT DISAGREE continued ▼ |
|---|---|
| 6 | LE ALTN FLAPS switch ALTN |
| 7 | TE ALTN FLAPS switch ALTN |
| 8 | Choose one: |
| | ◆LEADING EDGE light is illuminated : |
| | LE ALTN FLAPS switch Off |
| | ▶ Go to the LEADING EDGE SLAT ASYMMETRY checklist on page 9.6■ ■ ■ ■ |
| | ◆LEADING EDGE light extinguishes : |
| | ▶▶Go to step 9 |
| 9 | ALTN FLAPS selector Extend or retract leading edge slats and trailing |

- edge flaps as needed
- 10 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 11 Checklist Complete Except Deferred Items

Continued on next page

| _ | Z LEADING EDGE SLAT DISAGREE continued ▼ |
|------------------|--|
| | Deferred Items |
| Descent (| Checklist |
| Pressuriza | ation LDG ALT |
| Recall | |
| Autobrak | e |
| Landing o | lataVREF 20, Minimums |
| Approach | briefing Completed |
| Approach | Checklist |
| Altimeter | S |
| Landing C | Checklist |
| Speedbra | ke |
| Landing g | jear Down |
| Flaps | As directed ■ ■ ■ ■ |
| MACH SPD TRIM | MACH/SPEED TRIM |
| Message: M | MACH/SPEED TRIM |
| Condition: T | he Mach/speed system is failed. |

757 Flight Crew Operations Manual

RUDDER RATIO

RUDDER RATIO

Message: RUDDER RATIO

Condition: The rudder ratio system is failed.

- 1 Above 160 knots, avoid large or abrupt rudder inputs.
- 2 Choose one:
 - ◆Left hydraulic system pressure is **not normal**:

◆Left hydraulic system pressure is normal:

▶▶Go to step 3

- 3 Crosswind limit is 15 knots.
- 4 Do **not** autoland.



SPEED BRAKES

SPEEDBRAKES EXTENDED

Message: SPEEDBRAKES EXT

Condition: The speedbrakes are extended and one or

more of these occur:

•The radio altitude is between 15 and 800

feet

•The flap lever is in a landing setting



757 Flight Crew Operations Manual

SPOILERS

SPOILERS [Advisory]

Message: SPOILERS

Condition: One or more spoiler pairs are failed.

- 1 Roll rate may be reduced inflight.
- 2 Speedbrake effectiveness may be reduced in flight and during landing.

STAB

STABILIZER TRIM

Message: STAB TRIM

Condition: The stabilizer trim operates at a decreased

rate.

1 **If** a normal stabilizer trim rate is desired:

ALTN STAB TRIM

switches (both) Push and hold when trim is desired

| | | 8 |
|----|--------------|---|
| TR | RAILING EDGE | TRAILING EDGE FLAP ASYMMETRY |
| М | essage: | TE FLAP ASYM |
| C | ondition: | The trailing edge flaps are not symmetrically extended. |
| Ca | aution | ! Do not arm the TRAILING EDGE (TE) ALTERNATE FLAPS switch. |
| ı | | Do not use FMC fuel predictions with flaps extended. |
| 1 | GND I | PROX FLAP OVRD switch OVRD |
| 2 | Choos | se one: |
| | ♦Indi | cated flap position at or greater than 20: |
| | | Use current flaps and VREF 20 for landing. |
| | | ▶▶Go to step 7 |
| | ♦Indi | cated flap position between 5 and 20: |
| | | Use current flaps and VREF 30 + 30 for landing. |
| | | ▶▶Go to step 7 |
| | ♦Indi | cated flap position at or between 1 and 5: |
| | | ▶▶Go to step 5 |
| | ♦Indi | cated flap position less than 1: |
| | | ▶▶Go to step 3 |
| 3 | ALTN | FLAPS selector |

Continued on next page ▼

| | 131 Tight Crew Operations Manual |
|---|--|
| | ▼ TRAILING EDGE FLAP ASYMMETRY continued ▼ |
| 4 | LE ALTN FLAPS switch ALTN |
| ı | lote: Flap indicator may remain less than 1. |
| 5 | Use VREF 30 + 40 for landing. |
| 6 | Choose one: |
| | ♦ LE SLAT ASYM or LE SLAT DISAGREE message is shown: |
| | ▶ Go to the All Flaps and Slats Up Landing checklist on page 9.1■ ■ ■ ■ |
| | ◆LE SLAT ASYM and LE SLAT DISAGREE messages are not shown: |
| | Note: Tail clearance is reduced on landing. |
| | ► ► Go to step 7 |
| 7 | Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter. |
| 8 | Checklist Complete Except Deferred Items |
| | Deferred Items |
| D | escent Checklist |
| F | Pressurization LDG ALT |
| | Recall |
| | Autobrake |
| | ▼ Continued on next page ▼ |
| | |
| | a thomas a second as |

| ▼ TRAILING E | EDGE FLAP ASYMMETRY continued ▼ |
|-------------------|---|
| Landing data | VREF 20, or VREF 30 + 30, or VREF 30 + 40, as directed Minimums |
| Approach briefing | Completed |
| Approach Checkl | ist |
| Altimeters | · · · · · · · · · · · · · · · · · · · |
| Landing Checklis | t |
| Speedbrake | ARMED |
| Landing gear | |
| Flaps | As directed ■ ■ ■ ■ |

| Message: TE FLAP DISAGREE |
|---|
| TETEN DISTOREE |
| Condition: The trailing edge flaps are not in the commanded position. |
| 1 GND PROX FLAP OVRD switch OVR |
| 2 Choose one: |
| ◆Indicated flap position greater than 20: |
| Use current flaps and VREF 20 for landing |
| ▶▶Go to step 8 |
| ◆Indicated flap position 20 or less : |
| Use flaps 20 and VREF 20 for landing. |
| ► Go to step 3 |
| 3 Choose one: |
| ◆FLAP lever position greater than 20: |
| ALTN FLAPS selector 2 |
| ▶▶Go to step 4 |
| ◆FLAP lever position 20 or less : |
| ALTN FLAPS selector Position to agre with FLAP leve |
| ▶▶Go to step 4 |
| 4 LE ALTN FLAPS switch ALT |
| 5 TE ALTN FLAPS switch ALT |
| ▼ Continued on next page ▼ |

| | 737 Fight Crew Operations Manual |
|---|---|
| | ▼ TRAILING EDGE FLAP DISAGREE continued ▼ |
| 6 | Choose one: |
| | ◆ TRAILING EDGE light is illuminated: |
| | TE ALTN FLAPS switch Of |
| | ►►Go to the TRAILING EDGE FLAP ASYMMETRY checklist on page 9.15 ■ ■ ■ ■ |
| | ◆TRAILING EDGE light extinguishes : |
| | ▶▶Go to step 7 |
| 7 | ALTN FLAPS selector Extend or retract |
| 8 | Check the Non-Normal Configuration Landing |

▼ Continued on next page ▼

chapter.

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▼ TRAILING EDGE FLAP DISAGREE continued ▼ Deferred Items Descent Checklist Pressurization LDG ALT Landing data VREF 20, Minimums____ Approach briefing Completed **Approach Checklist Landing Checklist** Landing gear Down As directed Flaps........

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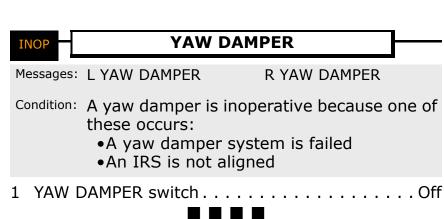
| UI ST. | NSCHED AB TRIM | UNSCHEDULED STABILIZER TRIM — |
|-----------|-------------------|--|
| М | essage: (| JNSCHD STAB TRIM |
| Co | | Stabilizer movement occurs without a signal to trim. |
| 1 | STAB T (both). | RIM CUT OUT switches |
| 2 | need | er than normal control column force may be ed to prevent unwanted pitch change pilot disengage switch Push |
| 3 | | TRIM CUT OUT switch NORM |
| 4 | Choose | |
| | ♦Unsch | neduled trim does not occur : |
| | | ▶▶Go to step 8 |
| | ♦Unsch | neduled trim occurs : |
| | | ▶▶Go to step 5 |
| 5 | C STAB | TRIM CUT OUT switch CUT OUT |
| 6 | R STAB | TRIM CUT OUT switch NORM |
| 7 | Choose | one: |
| | ♦Unsch | neduled trim does not occur: |
| | | ▶▶Go to step 8 |
| | ♦Unsch | neduled trim occurs : |
| | | R STAB TRIM CUT OUT switch CUT OUT |
| | | ▶▶Go to step 8 |
| | | |

▼ UNSCHEDULED STABILIZER TRIM continued ▼

8 Do **not** accomplish the following checklist:

STABILIZER TRIM







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| Non-Normal Checklists | Chapter NNC |
|---------------------------------------|-------------|
| Flight Instruments, Displays | Section 10 |
| Table of Contents Airspeed Unreliable | 10.1 |
| | |
| Airspeed Unreliable | 10.1 |
| ALTITUDE DISAGREE | 10.4 |
| ATTITUDE DISAGREE | 10.4 |
| IAS DISAGREE | 10.5 |
| INSTRUMENT SWITCH | 10.5 |

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Airspeed Unreliable

Condition: The airspeed or Mach indications are

suspected to be unreliable. (Items which may indicate Airspeed Unreliable are listed in the Additional Information section.)

Objective: Maintain control using manual pitch and thrust.

- 1 Check the pitch attitude and thrust.
- 2 If pitch attitude or thrust is **not** normal for phase of flight:

Note: Normal pitch attitude and thrust settings are available in the FLIGHT WITH UNRELIABLE AIRSPEED table in the Performance Inflight-QRH chapter.

3 Altitude information, vertical speed information, limit EPR, Reference EPR, and EPR bug may be unreliable.

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▼ Airspeed Unreliable continued **▼**

- 4 Cross check captain and first officer airspeed indications and standby airspeed indicator. An airspeed display differing by more than 15 knots from the standby indicator should be considered unreliable.
- 5 Choose one:
 - ◆Reliable airspeed data source can be determined:

AIR DATA switch (unreliable side) . . ALTN

Invalid overspeed warning and invalid input to AFDS and autothrottle may occur or continue.

Reliable airspeed data source can **not** be determined:

▶ Go to step 6

- 6 Maintain normal pitch attitude and thrust setting for phase of flight. Refer to the FLIGHT WITH UNRELIABLE AIRSPEED table in the Performance Inflight chapter.
- 7 Maintain visual conditions if possible.
- 8 Checklist Complete Except Deferred Items

Deferred Items

Review before descent:

Establish landing configuration early.

Use electronic and visual glideslope indicators, where available, for approach and landing.

▼ Airspeed Unreliable continued **▼**

Refer to IRS ground speed on the CDU POS REF page and reported wind on approach.

Additional Information

One or more of the following may be evidence of unreliable airspeed/Mach indication:

- speed/altitude information not consistent with pitch attitude and thrust setting
- speed/airspeed/Mach failure flags
- blank or fluctuating airspeed displays
- variation between captain and first officer airspeed displays
- amber line through one or more ADI flight mode annunciations
- overspeed indications
- radome damage or loss
- simultaneous overspeed and stall warnings

Display of one or more of the following EICAS messages may be evidence of unreliable airspeed/Mach indication:

- CAPT PITOT
- •F/O PITOT
- •L AUX PITOT
- MACH/SPEED TRIM
- OVERSPEED
- PROBE HEAT
- •R AUX PITOT
- RUDDER RATIO

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ALTITUDE DISAGREE

Message: ALT DISAGREE

Condition: The captain's and the first officer's altitude

indications disagree by more than 200 feet.

- 1 Airplane does not meet RVSM airspace requirements.
- 2 Transponder altitude received by ATC may be unreliable.
- Maintain visual conditions if possible.
 - 4 Checklist Complete Except Deferred Items

Deferred Items

Review before descent:

Establish landing configuration early.

Radio altitude reference is available below 2500 feet.

Use electronic and visual glideslope indicators, where available, for approach and landing.

ATTITUDE DISAGREE

Message: ATT DISAGREE

Condition: The captain's and the first officer's attitude

indications disagree.



IAS DISAGREE

Message: IAS DISAGREE

Condition: The captain's and the first officer's airspeed

indications disagree.

► Go to the Airspeed Unreliable checklist on page 10.1

INSTRUMENT SWITCH

Message: INSTR SWITCH

Condition: Both pilots' ADI and HSI use the same

symbol generator source.

1 Both ADIs and HSIs are displaying information from the center symbol generator.





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| Non-Normal Checklists | Chapter NNC |
|-------------------------------|-------------|
| Flight Management, Navigation | Section 11 |
| Table of Contents | |
| ATC FAULT | 11.1 |
| FMC FAIL | 11.2 |
| FMC MESSAGE | 11.3 |
| GPS | 11.4 |
| IRS DC FAIL | 11.4 |
| IRS FAULT | 11.5 |
| IRS ON DC | 11.5 |
| UNABLE RNP | 11.6 |

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ATC FAULT

Messages: ATC FAULT

Condition: A transponder fault occurs.



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Messages: L FMC FAIL R FMC FAIL

Condition: An FMC is failed.

- 1 Choose one:
 - ◆A **single** FMC is failed:

▶ Go to step 2

◆Both FMCs are failed:

▶ Go to step 4

- 2 NAV SOURCE selector FMC-L or FMC-R Select the operative FMC
- 3 During VOR approaches, one pilot must have raw data from the VOR associated with the approach displayed on the RDMI (RMI) or HSI in a VOR mode, no later than the final approach fix.

- 4 Select autopilot roll and pitch modes appropriate for the desired flight path. LNAV and VNAV are not available.
- 5 Captain's NAV SOURCE selector CDU-L
- 6 First Officer's NAV SOURCE selector CDU-R
- 7 Route modifications must be entered into both CDUs. Enter any new waypoints by latitude and longitude.
- 8 Manually tune navigation radios.

▼ FMC FAIL continued ▼

9 Refer to Performance Inflight chapter for VREF speed and other applicable performance information.



FMC

FMC MESSAGE

Messages: FMC MESSAGE

Condition: An alert message is in the FMC scratchpad.

- 1 Choose one:
 - ◆CDU message **is** FUEL QTY ERROR-PROG 2, FUEL DISAGREE-PROG 2, or INSUFFICIENT FUEL
 - ▶ Go to the Engine Fuel Leak checklist on page 12.1
 - ◆CDU message is **not** FUEL QTY ERROR-PROG 2, FUEL DISAGREE-PROG 2, or INSUFFICIENT FUEL:

Take action as needed per the message.



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GPS

Messages: L GPS R GPS

GPS

Condition: One or both GPS receivers are failed.

1 Choose one:

♦L GPS or R GPS message is shown:

The indicated GPS has failed.

♦GPS message is shown:

Both GPSs have failed.

DC FAIL

IRS DC FAIL

Messages: L IRS DC FAIL R IRS DC FAIL

C IRS DC FAIL

Condition: IRS backup DC power is failed.



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IRS FAULT

Messages: L IRS FAULT R IRS FAULT

C IRS FAULT

Condition: An IRS fault occurs.

1 Choose one:

♦Left IRS FAULT light is **illuminated**:

Captain's IRS switch ALTN

Right IRS FAULT light is illuminated:

First Officer's IRS switch..... ALTN

◆Center IRS FAULT light is **illuminated**:

ON DC IRS ON DC

Messages: L IRS ON DC R IRS ON DC

C IRS ON DC

Condition: IRS AC power is failed.

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UNABLE RNP

Messages: UNABLE RNP

Condition: The actual navigation performance is not

sufficient.

1 **If** on a procedure or airway that has an RNP alerting requirement:

Select alternate procedure or airway, or initiate a qo-around.

2 **If** on a procedure or airway without RNP:

Verify position.



| Non-Normal Checklists | Chapter NNC |
|--------------------------|-------------|
| Fuel | Section 12 |
| Table of Contents | |
| Engine Fuel Leak | 12.1 |
| FUEL CONFIGURATION | 12.8 |
| FUEL CROSSFEED | 12.10 |
| FUEL PUMP | 12.10 |
| FUEL SPAR VALVE | ▶▶7.44 |
| FUEL SYSTEM PRESSURE | 12.12 |
| LOW FUEL | 12.14 |
| Low Fuel Temperature | 12.16 |

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Engine Fuel Leak

| | | An in flight engine fuel leak is suspected or confirmed.(Items which may indicate an engine fuel leak are listed in the Additional Information section at the end of this procedure.) |
|---|------------------|---|
| 1 | 1 CLan | d C R PUMP switches Off |
| 2 | 2 Do no t | t accomplish the following checklist: |
| | FUE | EL CONFIGURATION |
| | 3 FWD a | nd AFT FUEL XFEED switches Off |
| _ | | y an engine fuel leak by observing a left or nain tank fuel quantity decreasing faster than ner. |
| | 1000 p | rease in fuel imbalance of approximately bounds or more in 30 minutes should be ered an engine fuel leak. |
| 6 | 6 If cond | ditions allow: |
| | Visu | ually check for engine fuel leak. |
| - | 7 Choose | e one: |
| | ▲ Engir | ne fuel leak confirmed : |

- - ▶▶Go to step 17
- Left and right main tank quantities decrease at the same rate:
 - ▶ Go to step 8

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| \blacksquare | Engine | Fuel | Leak | continued | \blacksquare |
|----------------|--------|------|-------|-----------|----------------|
| | | | LCUIL | Continuca | |

- 8 Resume normal fuel management procedures.
- 9 Choose one:
 - ◆FUEL DISAGREE-PROG 2 **and** FUEL QTY ERROR-PROG 2 messages are **not** shown on the CDU scratchpad:
 - ▶ Go to step 12
 - ◆FUEL DISAGREE-PROG 2 **or** FUEL QTY ERROR-PROG 2 message is **shown** on the CDU scratchpad:

▶▶Go to step 10

10 PROGRESS PAGE 2 SELECT

11 TOTALIZER or

CALCULATED Select USE for the most accurate indication

12 Choose one:

◆LOW FUEL message not shown:

◆LOW FUEL message is shown:

FWD and AFT FUEL XFEED switches . . . On

This ensures all fuel is available if the low tank empties.

▶ Go to step 13

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| ▼ Engine Fuel Leak continued ▼ |
|---|
| 13 PUMP switches (all) |
| This ensures all fuel is available. |
| 14 Plan to land at nearest suitable airport. |
| 15 Avoid high nose up attitude and excessive acceleration and deceleration. |
| 16 Do not accomplish the following checklist: |
| LOW FUEL |
| |
| 17 A/T ARM switch OFF |
| 18 Thrust lever (affected side) Confirm Idle |
| 19 FUEL CONTROL switch (affected side) Confirm CUTOFF |
| 20 Choose one: |
| ◆APU is available : |
| ▶▶Go to step 21 |
| ◆APU is not available : |
| ►►Go to step 22 |
| 21 APU selector START, then ON |
| 22 GND PROX FLAP OVRD switch OVRD |
| 23 Transponder mode selector |
| 24 Plan to land at the nearest suitable airport. |

| ▼ Engine Fuel Leak continued ▼ |
|---|
| 25 If wing anti-ice needed: |
| PACK control selector (affected side) OFF |
| ISOLATION switchOn |
| When wing anti-ice no longer needed: |
| ISOLATION switch Off |
| 26 Choose one: |
| ◆FUEL DISAGREE-PROG 2 and FUEL QTY ERROR-PROG 2 messages are not shown on the CDU scratchpad: |
| ▶▶Go to step 29 |
| ◆FUEL DISAGREE-PROG 2 or FUEL QTY ERROR-PROG 2 message is shown on the CDU scratchpad: |
| ►►Go to step 27 |
| 27 PROGRESS PAGE 2 SELECT |
| 28 TOTALIZER Select USE for TOTALIZER to determine fuel remaining |
| 29 After engine shutdown, all remaining fuel can be used for the operating engine. Resume normal fuel management procedures. |
| 30 Use Flaps 20 and VREF 20 for landing |
| 31 Use Flaps 5 for go-around |
| |

▼ Engine Fuel Leak continued **▼**

- 32 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 33 Do **not** accomplish the following checklists:

ENGINE SHUTDOWN

PACK OFF

34 Choose one:

♦LOW FUEL message not shown:

▶ Go to step 39

♦LOW FUEL message is **shown**:

FWD and AFT FUEL XFEED switches . . . On

This ensures all fuel is available if the low tank empties.

▶▶Go to step 35

This ensures all fuel is available.

- 36 Plan to land at nearest suitable airport.
- 37 Avoid high nose up attitude and excessive acceleration and deceleration.
- 38 Do **not** accomplish the following checklist:

LOW FUEL

39 Checklist Complete Except Deferred Items

| ▼ Engine Fuel Leak continued ▼ |
|--------------------------------|
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 20, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| Flaps |
| ▼ Continued on next nage ▼ |

▼ Engine Fuel Leak continued **▼**

Additional Information

One or more of the following may be evidence of an engine fuel leak:

- Visual observation of fuel spray from strut or engine
- Excessive engine fuel flow
- Total fuel quantity decreasing at an abnormal rate
- •FUEL CONFIG message on EICAS.
- •LOW FUEL message on EICAS
- FUEL DISAGREE-PROG 2 or FUEL QTY ERROR-PROG 2 message on the CDU scratchpad
- •INSUFFICIENT FUEL message on the CDU scratchpad

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FUEL CONFIG

FUEL CONFIGURATION

Messages: FUEL CONFIG

Condition: One or more of these occur:

- Both center pump switches are off with fuel in the center tank
- •A fuel imbalance between main tanks
- •The fuel quantity is low in a main tank
- 1 The FUEL CONFIG message may be caused by an engine fuel leak. For indications of an engine fuel leak, check:

Total fuel quantity remaining compared to planned fuel remaining.

Fuel flow indications, for an engine with excessive fuel flow.

Individual tank quantities.

Totalizer compared to calculated quantities (PROGRESS page 2). The TOTALIZER value is the sum of the individual tank quantities. The CALCULATED value is the totalizer value at engine start minus fuel used (calculated using fuel flow rates and time).

▼ FUEL CONFIGURATION continued ▼

- 2 Choose one: ◆Engine fuel leak indicated: ▶ ▶ Go to the Engine Fuel Leak checklist on page 12.1 Engine fuel leak **not indicated**: FWD and AFT FUEL XFEED switches ▶ Go to step 3 3 FWD and AFT PUMP switches (low tank) Off This ensures fuel from the high tank feeds both engines. 4 When fuel balancing complete: All FWD and AFT PUMP switches. ON FWD and AFT FUEL XFEED switches Off 5 Choose one: Fuel quantity is **low** in either main tank: ▶ Go to the LOW FUEL checklist on page 12.14
 - ◆Fuel quantity is **not low** in either main tank:

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VALVE FUEL CROSSFEED

Messages: AFT FUEL X-FEED FWD FUEL X-FEED

Condition: The fuel crossfeed valve is not in the

commanded position.

1 **If** both crossfeed switches are ON and one valve is open, fuel will crossfeed.



FUEL PUMP

Messages: CTR L FUEL PUMP CTR R FUEL PUMP

L AFT FUEL PUMP R AFT FUEL PUMP
L FWD FUEL PUMP R FWD FUEL PUMP

Condition: The pump pressure is low.

1 Do not reset any tripped fuel pump circuit breaker.

lacktriangle Continued on next page lacktriangle

▼ FUEL PUMP continued ▼

| 2 | Choose one: |
|---|--|
| | ◆ Left or right pump PRESS light is illuminated: |
| | PUMP switch (affected pump) Off ■ ■ ■ ■ |
| | Center left or center right pump PRESS light is illuminated: |
| | ▶▶Go to step 3 |
| | ◆ Center left and center right pump PRESS lights are illuminated: |
| | C L and C R PUMP switches Off |
| | FWD and AFT FUEL XFEED switches Off |
| | ▶▶Go to step 6 |
| 3 | PUMP switch (affected pump) Off |
| 4 | FWD and AFT FUEL XFEED switches On |
| 5 | When center tank fuel depleted: |
| | FWD and AFT FUEL XFEED switches Off \blacksquare \blacksquare \blacksquare \blacksquare |
| 6 | Check available left and right main tank quantity is sufficient for the planned flight. Center tank fuel is not available. |

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PRESS - FUE

FUEL SYSTEM PRESSURE

Messages: L FUEL SYS PRESS R FUEL SYS PRESS

Condition: The engine is on suction feed.

Note: At high altitude, thrust deterioration or engine flameout may occur.

- 1 Choose one:
 - **♦Able** to maintain needed thrust on affected engine:

◆Unable to maintain needed thrust on affected engine:

FWD and AFT FUEL XFEED switches ... On

Note: Continued operation with the crossfeed valve open will result in a progressive fuel imbalance when both engines are feeding from the same main tank.

- 2 Do **not** balance fuel.
- 3 Do **not** accomplish the following checklist:

FUEL CONFIGURATION

4 **When** the FUEL CONFIG light illuminates due to main tank imbalance:

FWD and AFT FUEL XFEED switches Off

lacktriangle Continued on next page lacktriangle

▼ FUEL SYSTEM PRESSURE continued ▼

Continue suction feed operation. Sufficient roll control is available to compensate for any main tank fuel imbalance.

If unable to maintain needed thrust on affected engine:

Operate at a lower altitude.



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FUEL CONFIG

LOW FUEL

Messages: LOW FUEL

Condition: The fuel quantity is low in a main tank.

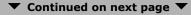
1 The LOW FUEL message may be caused by an engine fuel leak. For indications of an engine fuel leak, check:

Total fuel quantity remaining compared to planned fuel remaining.

Fuel flow indications, for an engine with excessive fuel flow.

Individual tank quantities.

Totalizer compared to calculated quantities (PROGRESS page 2). The TOTALIZER value is the sum of the individual tank quantities. The CALCULATED value is the totalizer value at engine start minus fuel used (calculated using fuel flow rates and time).



▼ LOW FUEL continued **▼**

- 2 Choose one:
 - **♦Indication** of engine fuel leak:
 - ▶ Go to the Engine Fuel Leak checklist on page 12.1

- **♦No indication** of engine fuel leak:
 - FWD and AFT FUEL XFEED switches . . . On

This ensures fuel is available to both engines if the low tank empties.

▶▶Go to step 3

- 4 Plan to land at nearest suitable airport.
- 5 Avoid high nose up attitude and excessive acceleration and deceleration.



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Low Fuel Temperature

Condition: Fuel temperature is near the minimum.

1 **When** fuel temperature is approaching fuel temperature limit (3°C above the fuel freeze point):

Increase speed, change altitude, and or deviate to a warmer air mass to achieve a TAT equal to or higher than the fuel temperature limit.

TAT will increase approximately 0.5 to 0.7 °C for each .01 Mach increase in speed.

In extreme conditions it may be necessary to descend as low as FL250.



| Non-Normal Checklists | Chapter NNC |
|----------------------------------|--------------------|
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| HYDRAULIC ELECTRIC PUMP | |
| HYDRAULIC ENGINE PUMP | 13.2 |
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| HYDRAULIC SYSTEM PRESSURE (L and | d R) 13.18 |
| HYDRAULIC SYSTEM PRESSURE (R an | d C) 13.22 |
| RAT UNI OCKED | 13.24 |

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| | VHT | FLECTRIC HY | /DDAIII | LIC OVERHEAT | |
|----|--------------|----------------|-----------|-----------------|-----|
| U | VII | LLLC I KIC III | DRAGI | LIC OVERILLAT | |
| Me | essages: | L ELEC HYD OV | HT | R ELEC HYD OVHT | • |
| Co | ondition: | The pump ter | mperatu | ıre is high. | |
| 1 | ELEC | HYD PUMP swi | itch | | Off |
| 2 | Do no | t accomplish | the follo | wing checklist: | |
| | HY | DRAULIC ELEC | CTRIC P | UMP | |
| | | | | | |
| | | FAICTAIE LIV | DDAIII: | C OVERUEAT | |
| 0' | VHT | ENGINE HY | DKAUL. | IC OVERHEAT | |
| Me | essages: | L ENG HYD OVE | HT. | R ENG HYD OVHT | |
| Co | ondition: | The pump ter | mperatu | ıre is high. | |
| 1 | ENG I | HYD PUMP swit | tch | | Off |
| 2 | Do no | ot accomplish | the follo | wing checklist: | |
| | HY | DRAULIC ENG | INE PUN | ИР | |
| | | | | | |
| | | | | _ | |
| 0 | VHT | HYDRAULIC | (1 or : | 2) OVERHEAT | |
| Me | essages: | C HYD 1 OVHT | | C HYD 2 OVHT | |
| Co | ondition: | The pump ter | mperatu | ıre is high. | |
| 1 | ELEC | HYD PUMP swi | itch | | Off |
| 2 | Do no | ot accomplish | the follo | wing checklist: | |
| | HY | DRAULIC ELEC | CTRIC (| 1 or 2) | |
| | | | | | |

| PRESS | HYDRAULIC ELEC | CTRIC (1 or 2) |
|------------|--------------------------|-----------------|
| Messages: | C HYD ELEC 1 | C HYD ELEC 2 |
| Condition: | The pump pressure | is low. |
| 1 ELEC | HYD PUMP switch ■ ■ ■ | Off ■ |
| PRESS | HYDRAULIC ELE | CTRIC PUMP |
| Messages: | L HYD ELEC PUMP | R HYD ELEC PUMP |
| Condition: | The pump pressure | is low. |
| 1 ELEC | HYD PUMP switch ■ ■ ■ | Off ■ |
| PRESS | HYDRAULIC EN | IGINE PUMP |
| Messages: | L HYD ENG PUMP | R HYD ENG PUMP |
| Condition: | The pump pressure | is low. |
| 1 ENG H | HYD PUMP switch ■ ■ ■ | Off ■ |
| RSVR - | HYDRAULIC (| QUANTITY |
| Messages: | C HYD QTY L HYD QTY | R HYD QTY |
| Condition: | The hydraulic quant | city is low. |
| | | |

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HYDRAULIC RESERVOIR PRESSURE

Messages: C HYD RSVR PRESS R HYD RSVR PRESS

L HYD RSVR PRESS

Condition: The hydraulic reservoir air pressure is low.



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HYDRAULIC SYSTEM PRESSURE (C only)

Messages: C HYD SYS PRESS

Condition: The hydraulic system pressure is low.

Objective: To attempt to avoid further damage.

- 1 C1 AND C2 ELEC HYD PUMP switches (both) . . Off
- 2 Do **not** autoland.

Inoperative Items

Center autopilot inop

Left autopilot stabilizer trim inop

One spoiler panel on each wing inop

Roll rate may be reduced in flight. Speedbrake effectiveness may be reduced in flight and during landing.

Center system hydraulic power to stabilizer trim inop

Right system powers the trim at half rate.

- 3 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 4 Do **not** accomplish the following checklists:

HYDRAULIC ELECTRIC (1 or 2)

STABILIZER TRIM

SPOILERS

YAW DAMPER



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757 Flight Crew Operations Manual

| CVC | |
|--------------|--|
| 515 | |
| PRESS | |

HYDRAULIC SYSTEM PRESSURE (L only)

| | (= 0,) |
|-----------------|---|
| Messages: | L HYD SYS PRESS |
| Condition: | The hydraulic system pressure is low. |
| Objective: | To avoid further system damage, and configure for landing using alternate systems, if needed. |
| 1 LENC | G HYD PUMP switchOff |
| 2 L ELE | C HYD PUMP switchOff |
| 3 Above input | e 160 knots, avoid large or abrupt rudder s. |
| 4 Do n o | ot autoland. |
| 5 Do n o | ot use the autobrake. |
| 6 Plan a | additional time for flap and gear extension. |
| Inonor | ativa Itams |

Inoperative Items

Left autopilot inop

Some spoiler panels on each wing inop

Roll rate may be reduced in flight. Speedbrake effectiveness may be reduced in flight and during landing.

Rudder ratio inop

Left thrust reverser inop

7 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.

Continued on next page

| ▼ HYDRAULIC SYSTEM | PRESSURE (| (L only | continued \ |
|---------------------------|------------|---------|-------------|
| | | | |

8 Do **not** accomplish the following checklists:

HYDRAULIC ELECTRIC PUMP

HYDRAULIC ENGINE PUMP

SPOILERS

RUDDER RATIO

YAW DAMPER

9 Checklist Complete Except Deferred Items

| Deferred Items |
|-----------------------------|
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake OFF |
| Landing data VREF, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| ▼ Continued on next page ▼ |

757 Flight Crew Operations Manual

▼ HYDRAULIC SYSTEM PRESSURE (L only) continued ▼

Alternate Flap Extension (if required)

If TE FLAP DISAGREE **is shown** during normal flap extension:

Use flaps 20 and VREF 20 for landing

GND PROX FLAP OVRD switch OVRD

ALTN FLAPS selector Position to agree with FLAP lever

LE ALTN FLAPS arm switch ALTN

TE ALTN FLAPS arm switch ALTN

ALTN FLAPS selector Extend or retract flaps, as needed

Do **not** accomplish the following checklist:

TRAILING EDGE FLAP DISAGREE

Alternate Gear Extension (if required)

If GEAR DISAGREE **is shown** during normal gear extension:

Landing gear lever OFF

GND PROX GEAR OVRD switch.....OVRD

Action is **not** reversible Maximum 250K/.75M

ALTN GEAR EXTEND switch DN

Continued on next page

| ▼ HYDRAULIC SYSTEM PRESSURE (L only) continued ▼ |
|--|
| After gear down lights illuminate: |
| Landing gear leverDN |
| Do not arm speedbrakes. Automatic speedbrake is inoperative. |
| Nose wheel steering is inoperative. Differential braking is available. |

757 Flight Crew Operations Manual

| ▼ HYDRAULIC SYSTEM | PRESSURE (| (L only) | continued ` |
|---------------------------|------------|----------|-------------|
|---------------------------|------------|----------|-------------|

Do **not** accomplish the following checklist:

GEAR DOORS

| Landing Checklist |
|---|
| Speedbrake DOWN |
| Ensure speedbrakes are extended before using right thrust reverser. |
| Landing gear |
| Flaps |

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HYDRAULIC SYSTEM PRESSURE (R only)

| M | essages: R HYD SYS PRESS |
|----|---|
| Co | ondition: The hydraulic system pressure is low. |
| Ol | bjective: To avoid further system damage. |
| 1 | R ENG HYD PUMP switch Off |
| 2 | R ELEC HYD PUMP switchOf |
| 3 | Do not autoland. |

Inoperative Items

Right autopilot inop

Right stabilizer trim inop.

Center stabilizer powers the trim at half trim rate.

Autobrake inop

Some spoiler panels on each wing inop

Roll rate may be reduced in flight. Speedbrake effectiveness may be reduced in flight and during landing.

Right thrust reverser inop

- 4 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 5 Do **not** accomplish the following checklists:

HYDRAULIC ELECTRIC PUMP HYDRAULIC ENGINE PUMP SPOILERS

▼ Continued on next page ▼

▼ HYDRAULIC SYSTEM PRESSURE (R only) continued ▼

STABILIZER TRIM

6 Checklist Complete Except Deferred Items

| Deferred Items |
|-----------------------------|
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake OFF |
| Landing data VREF, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| anding Checklist |
| Speedbrake |
| Landing gear Dowr |
| Flaps |

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HYDRAULIC SYSTEM PRESSURE (L and C)

SYS PRESS

| Ме | ssages: | HYD SYS I | PRESS | C HYD SYS PRES | SS |
|----|--------------|-------------------|----------------|----------------------------------|-------|
| Со | ndition: | Two hydra | ulic system | pressures are | low. |
| Ob | jective: | | for landing | em damage, an using alternate | |
| 1 | L ENG | HYD PUM | switch | | Off |
| 2 | L ELEC | C HYD PUM | P switch | | Off |
| 3 | C1 and | d C2 ELEC | HYD PUMP | switches (both) |) Off |
| 4 | SPEED | BRAKE lev | er | | DOWN |
| | Do | not arm S | PEEDBRAK | E lever. | |
| 5 | Plan to | o land at th | ne nearest s | suitable airport. | |
| 6 | Crossv | wind limit i | s 20 knots. | | |
| 7 | Do no | t autoland | | | |
| 8 | Manua | ally extend | speedbrake | es after landing | |
| 9 | Do no | t use auto | brakes. | | |
| 10 | Use fla | aps 20 and | VREF 30 + | - 20 for landing | |
| 11 | Avoid knots. | _ | orupt rudde | r inputs above | 160 |
| 12 | GND F | ROX FLAP | OVRD swite | ch | .OVRD |
| | | ▼ C | ntinued on nev | rt nage 🔻 | |

▼ HYDRAULIC SYSTEM PRESSURE (L and C) continued ▼

13 Plan additional time for flap and gear extension.

Inoperative Items

Left and Center autopilots inop

Left thrust reverser inop

Some spoiler panels on each wing inop

Roll rate may be reduced in flight. Speedbrake effectiveness may be reduced in flight and during landing.

Center stabilizer trim inop

Right stabilizer powers the trim at half speed.

Rudder ratio system inop

- 14 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 15 Do **not** accomplish the following checklists:

HYDRAULIC ELECTRIC PUMP

HYDRAULIC ENGINE PUMP

HYDRAULIC ELECTRIC (1 or 2)

RUDDER RATIO

SPOILERS

STABILIZER TRIM

YAW DAMPER

16 Checklist Complete Except Deferred Items

▼ Continued on next page **▼**

| ▼ HYDRAULIC SYSTEM PRESSURE (L and C) continued ▼ |
|--|
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| |
| Landing data VREF 30 + 20, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| Alternate Flap Extension (if required) |
| If TE FLAP DISAGREE is shown during normal flap extension: |
| ALTN FLAPS selector Position to agree with FLAP lever |
| LE ALTN FLAPS arm switch ALTN |
| TE ALTN FLAPS arm switch ALTN |
| ALTN FLAPS selector Extend or retract flaps as needed |
| Do not accomplish the following checklist: |
| TRAILING EDGE FLAP DISAGREE |
| ▼ Continued on next page ▼ |

▼ HYDRAULIC SYSTEM PRESSURE (L and C) continued ▼

| Alternate Gear Extension (if required) |
|--|
| If GEAR DISAGREE is shown during normal gear extension: |
| Landing gear lever OFF |
| GND PROX GEAR OVRD switchOVRD |
| Action is not reversible Maximum 250K/.75M |
| ALTN GEAR EXTEND switch DN |
| After gear down lights illuminate: |
| Landing gear leverDN |
| Nose wheel steering is inoperative. Differential braking is available. |
| Do not accomplish the following checklist: |
| GEAR DOORS |
| |
| Landing Checklist |
| Speedbrake |
| Extend speedbrakes before using right thrust reverser. |
| Landing gear Down |
| Flaps |

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HYDRAULIC SYSTEM PRESSURE (L and R)

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| PKESS |
| |
| |

SYS PRESS

| Me | ssages: L | . HYD SYS PRESS | R HYD SYS PRESS |
|----|-------------------|--|----------------------|
| Со | ndition: | Two hydraulic system | n pressures are low. |
| Ob | jective: | To avoid further syst configure for landing systems. | |
| 1 | L and | R ENG HYD PUMP swi | tches Off |
| 2 | L and | R ELEC HYD PUMP sw | itches Off |
| 3 | SPEED | BRAKE lever | DOWN |
| | Do | not arm SPEEDBRAK | E lever. |
| 4 | Plan to | land at the nearest s | suitable airport. |
| 5 | Crossv | vind limit is 20 knots. | |
| 5 | Do no | t autoland. | |
| 7 | Use fla | ps 20 and VREF 30 $+$ | 20 for landing. |
| 3 | Avoid l knots. | arge or abrupt rudde | r inputs above 160 |
| 9 | GND P | ROX FLAP OVRD swite | chOVRD |
| 10 | GND P | ROX GEAR OVRD swit | tch OVRD |
| 11 | Plan a | dditional time for flap | and gear extension. |

Continued on next page ▼

▼ HYDRAULIC SYSTEM PRESSURE (L and R) continued ▼

Inoperative Items

Left and Right autopilots inop

Left and Right thrust reversers inop

Nose wheel steering inop

Normal and alternate brakes inop

Reserve brakes source to normal brakes is available.

Some spoiler panels on each wing inop

Roll rate may be reduced in flight. Speedbrake effectiveness may be reduced in flight and during landing.

Right system hydraulic power to stabilizer trim inop

Center system powers the trim at half rate.

Rudder ratio system inop

Normal flap operation inop

Alternate flap operation is needed. Allow 3 minutes for flap extension during approach.

Normal landing gear extension and retraction inop

Alternate gear extension is needed.

12 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.

| \blacksquare | Continued | on | next | page | |
|----------------|-----------|----|------|------|--|

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| ▼ HYDRAULIC SYSTEM PRESSURE | (L and F | R) continued | • |
|------------------------------------|----------|--------------|---|
|------------------------------------|----------|--------------|---|

| 13 | Do | not | accom | plish | the | follo | wing | checkl | ists: |
|----|----|-----|-------|-------|-----|-------|------|--------|-------|
| | | | | | | | | | |

AUTOBRAKES

BRAKE SOURCE

HYDRAULIC ELECTRIC PUMP

HYDRAULIC ENGINE PUMP

GEAR DOORS

RUDDER RATIO

SPOILERS

STABILIZER TRIM

YAW DAMPER

14 Checklist Complete Except Deferred Items

| Deferred Items |
|-------------------------------------|
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake OFF |
| Landing data VREF 30 + 20, Minimums |
| Approach briefing Completed |
| Approach Checklist Altimeters |

Continued on next page

▼ HYDRAULIC SYSTEM PRESSURE (L and R) continued ▼

| Alternate Flap Extension |
|---|
| ALTN FLAPS selector Position to agree with FLAP lever |
| LE ALTN FLAPS arm switch ALTN |
| TE ALTN FLAPS arm switch ALTN |
| ALTN FLAPS selector Extend or retract flaps, as needed |
| Alternate Gear Extension |
| Landing gear lever OFF |
| Action is not reversible Maximum 250K/.75M ALTN GEAR EXTEND switch |
| RESERVE BRAKES switch |
| Do not accomplish the following checklist: GEAR DOORS |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| Flaps |

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HYDRAULIC SYSTEM PRESSURE (R and C)





| M | essages: R HYD SYS PRESS C HYD SYS PRESS | | | |
|--|---|--|--|--|
| Condition: Two hydraulic system pressures are low. | | | | |
| Objective: To avoid further system damage. | | | | |
| 1 | R ENG HYD PUMP switch Off | | | |
| 2 | R ELEC HYD PUMP switchOff | | | |
| 3 | C1 and C2 ELEC HYD PUMP switchesOff | | | |
| 4 | Do not autoland. | | | |
| 5 | Plan to land at the nearest suitable airport. | | | |
| 6 | Crosswind limit is 20 knots. | | | |
| 7 | Use flaps 20 and VREF 30 + 20 for landing | | | |
| 8 | GND PROX FLAP OVRD switch OVRD | | | |
| | | | | |

▼ HYDRAULIC SYSTEM PRESSURE (R and C) continued ▼

Inoperative Items

All autopilots inop

All stabilizer trim inop

Elevator feel inop

Column forces may be significantly higher than normal, particularly during landing flare.

Autobrake inop

Right thrust reverser inop

Some spoiler panels on each wing inop

Roll rate may be reduced in flight. Speedbrake effectiveness may be reduced in flight and during landing.

- 9 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 10 Do **not** accomplish the following checklists:

HYDRAULIC ELECTRIC PUMP

HYDRAULIC ENGINE PUMP

HYDRAULIC ELECTRIC (1 or 2)

SPOILERS

STABILIZER TRIM

YAW DAMPER

11 Checklist Complete Except Deferred Items

▼ Continued on next page **▼**

| ▼ HYDRAULIC SYSTEM PRESSURE (R and C) continued ▼ | | | |
|--|--|--|--|
| Deferred Items | | | |
| Descent Checklist | | | |
| Pressurization LDG ALT | | | |
| Recall | | | |
| Autobrake OFF | | | |
| Landing dataVREF 30 + 20, Minimums | | | |
| Approach briefing Completed | | | |
| Approach Checklist | | | |
| Altimeters | | | |
| Landing Checklist | | | |
| Speedbrake | | | |
| Landing gear Down | | | |
| Flaps | | | |
| | | | |
| RAT UNLOCKED | | | |
| Messages: RAT UNLOCKED | | | |
| Condition: The ram air turbine is not stowed and locked. | | | |

| To the second of | | | |
|--|--------------------|--|--|
| Non-Normal Checklists | Chapter NNC | | |
| Landing Gear | Section 14 | | |
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| BRAKE SOURCE | 14.8 | | |
| CONFIG GEAR NOT DOWN | | | |
| CONFIG PARKING BRAKE | ▶▶15.2 | | |
| GEAR DISAGREE | 14.10 | | |
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| Gear Lever Will Not Move Up | | | |
| NOSE AIR/GROUND SYSTEM | 14.15 | | |
| PARKING BRAKE [ADVISORY] | | | |
| WHEEL WELL FIRE | ▶▶8.22 | | |

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AIR/GROUND SYSTEM

Messages: AIR/GND SYS

Condition: The air/ground system is failed in the air

mode.

Inoperative Items

One or both thrust reversers inop

Automatic speedbrake inop

Manual speedbrake extension after landing is needed.

Autobrake inop

Manual braking is needed.

- 1 When deployed manually, spoiler capability is reduced.
- 2 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- **3 Checklist Complete Except Deferred Items**

▼ Continued on next page **▼**

| ▼ AIR/GROUND SYSTEM continued ▼ | | | |
|---------------------------------|-----------|--|--|
| Deferred Items | | | |
| Descent Checklist | | | |
| Pressurization | . LDG ALT | | |
| Recall | Checked | | |
| Autobrake | OFF | | |
| Landing data VREF, | Minimums | | |
| Approach briefing | Completed | | |
| Approach Checklist | | | |
| Altimeters | <u></u> | | |
| | | | |
| Landing Checklist | | | |
| Speedbrake | DOWN | | |
| Landing gear | Down | | |
| Flaps | | | |
| | | | |

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ANTISKID ANTISKID

Messages: ANTISKID

Condition: An antiskid system fault occurs.

- 1 Braking effectiveness may be reduced.
- 2 Use minimum braking consistent with runway conditions to reduce possibility of tire blowout.
- 3 Autobrake system is inoperative.
- 4 Check the Non-Normal Configuration Landing Distance tables in the Performance Inflight-QRH chapter.
- 5 Checklist Complete Except Deferred Items

▼ Continued on next page ▼

| ▼ ANTISKID continued ▼ |
|--------------------------------------|
| Deferred Items |
| Descent Checklist |
| Pressurization LDG ALT |
| Recall Checked |
| Autobrake OFF |
| Landing data VREF, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| Landing Checklist |
| Speedbrake |
| Landing gear Down |
| Flanc |

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| AUTO BRAKES | AUTOBRAKES |
|----------------|--|
| Messages | AUTOBRAKES |
| Condition | One of these occurs: •The autobrake system is disarmed •The autobrake system is failed |
| 1 AUTC | BRAKES selector Reselect |
| 2 Choo | se one: |
| ♦AU 7 | O BRAKES light extinguishes : ■ ■ ■ ■ |
| ♦AU٦ | O BRAKES light stays illuminated : |
| | AUTO BRAKES selector OFF |
| 3 Chec | klist Complete Except Deferred Items |
| | Deferred Items |
| Descen | t Checklist |
| Pressui | rization LDG ALT |
| Recall | |
| Autobra | ake |
| Landing | g dataVREF, Minimums |
| Approa | ch briefing Completed |
| Approa | ch Checklist |
| Altimet | ers |
| | ▼ Continued on next page ▼ |
| | Conviols & The Pening Company See title page for details |

▼ AUTOBRAKES continued **▼**

| Landing Checklist | |
|-------------------|--------|
| Speedbrake | ARMED |
| Landing gear | . Down |
| Flaps | |
| | |

757 Flight Crew Operations Manual

| BRAKE SOURCE | BRAKE SOURCE |
|-----------------|---|
| | BRAKE SOURCE |
| Condition: | Normal and alternate brake system pressures are low. |
| 1 RESE | RVE BRAKES switchON |
| 2 Choo | se one: |
| ◆BR <i>A</i> | AKE SOURCE light extinguishes : |
| ◆BRA | AKE SOURCE light stays illuminated : |
| | ► ► Go to step 3 |
| Durin | accumulator pressure is available for braking. g landing rollout, apply steady, increasing pressure and hold to a full stop. |
| 4 Chec | klist Complete Except Deferred Items |
| | Deferred Items |
| Descen | t Checklist |
| Pressur | rizationLDG ALT |
| Recall | Checked |
| Autobra | ake |
| Landing | g dataVREF, Minimums |
| Approa | ch briefing Completed |
| | ▼ Continued on next page ▼ |

| ▼ BRAKE SOURCE continued ▼ | | |
|--|----|--|
| Approach Checklist | | |
| Altimeters | | |
| Landing Checklist | | |
| Speedbrake | D | |
| Landing gear Dow | 'n | |
| Flaps | | |

After Landing

Do **not** taxi.



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GEAR DISAGREE

Messages: GEAR DISAGREE

Condition: The landing gear position disagrees with the

landing gear lever position.

Note: Do not use FMC fuel predictions with gear

extended.

1 Choose one:

◆Landing gear lever UP:

Observe the gear extend or extended limit speed of 270 knots and .82 Mach.

Flight with gear down increases fuel consumption and decreases climb performance. Refer to the Gear Down performance tables in Performance Inflight chapter for flight planning.



Landing gear lever **DN and any** gear down (green) lights **not** illuminated:

▶ Go to step 2

◆ Landing gear lever **DN and all** gear down (green) lights **illuminated**:

GND PROX GEAR OVRD switch OVRD Accomplish normal landing.



Continued on next page

| | ▼ GEAR DISAGREE continued ▼ |
|---|---|
| 2 | Landing gear lever OFF |
| | Maximum 250K/.75M |
| 3 | ALTN GEAR EXTEND switchDN |
| 4 | Choose one: |
| | ◆All gear down (green) lights illuminated: |
| | Landing gear leverDN ■ ■ ■ ■ |
| | ◆Any gear down (green) light not illuminated: |
| | ▶▶Go to step 5 |
| 5 | Plan to land on available gear. |
| 6 | Landing gear lever |
| 7 | GND PROX GEAR OVRD switchOVRD |
| 8 | Use flaps 30 for landing. |
| | This ensures slowest landing speed. |
| 9 | Do not arm speedbrake lever. |
| | ▼ Continued on next page ▼ |

757 Flight Crew Operations Manual

| | CEAD | DISAGRE | | • |
|---|------|----------|------------|---|
| _ | GFAR | DISAUKER | - continue | |

| 4 | \sim | \sim 1 | | | | | | | | |
|---|--------|------------|----------|--------|--------|-----|--------|---|---|---|
| 1 | 11 | Cł | γ | \sim | \sim | 20 | \sim | n | Ω | • |
| 1 | u | L . | ш | | w | 3 C | u | | ┖ | |

◆Stopping distance is **not critical**:

Do **not** use thrust reversers.

- ▶ Go to step 13
- Stopping distance is critical:
 - ▶ Go to step 11
- 11 Extend the speedbrakes after all gear, or the nose or engine nacelle have contacted the runway.
- 12 Do **not** use the thrust reversers unless stopping distance is critical.
- 13 Checklist Complete Except Deferred Items

| Deferred Items |
|--------------------------------|
| Descent Checklist |
| Pressurization LDG ALT |
| Recall |
| Autobrake |
| Landing data VREF 30, Minimums |
| Approach briefing Completed |
| Approach Checklist |
| Altimeters |
| ▼ Continued on next page ▼ |

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757 Flight Crew Operations Manual

▼ GEAR DISAGREE continued **▼**

| When at pattern altitude |
|--|
| PACK control selectors (both)OFI |
| Fuel PUMP switches (all) Of |
| Do not accomplish the following checklists: |
| FUEL SYSTEM PRESSURE |
| PACK OFF |
| Landing Checklist |
| |
| Speedbrake |
| Landing gear Dowr |

Flaps.....

757 Flight Crew Operations Manual

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| | R | |
| | S | |

GEAR DOORS

Messages: GEAR DOORS

Condition: One or more landing gear doors are not

closed.

Note: Do not use FMC fuel predictions with gear

extended.

1 Choose one:

◆Landing gear lever UP or DN:

Observe the gear extend or extended limit speed of 270 knots and .82 Mach.

Landing gear lever **OFF**:

Landing gear lever UP



Gear Lever Will Not Move Up

Condition: The landing gear lever cannot move to UP.

1 Landing gear lever

LOCK OVRD switch Push and hold

2 Landing gear lever UP, then OFF

NOSE AIR/GROUND SYSTEM

Messages: NOSE A/G SYS

Condition: The nose air/ground system is failed in the

air mode.

1 Takeoff configuration warning system inoperative.



PARK BRAKE

PARKING BRAKE [ADVISORY]

Messages: PARKING BRAKE

Condition: The parking brake is set.

1 Antiskid is inoperative.



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| Non-Normal Checklists | Chapter NNC |
|-----------------------|-------------|
| Warning Systems | Section 15 |
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| CONFIG GEAR NOT DOWN. | 15.1 |
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| CONFIG SPOILERS | 15.2 |
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ALT ALERT

ALTITUDE ALERT

Message: ALTITUDE ALERT

Condition: A deviation from the MCP set altitude occurs.

ALTITUDE CALLOUTS

Message: ALT CALLOUTS

Condition: Altitude voice annunciations during

approach are not supplied.

CONFIG

CONFIG FLAPS

Message: FLAPS

Condition: The flaps are not in a takeoff position during

takeoff.

CONFIG

CONFIG GEAR NOT DOWN

Message: GEAR NOT DOWN

Condition: A landing gear is not down and locked and

one of these occurs:

•A thrust lever is at idle below 800 feet

radio altitude

The flaps are in a landing position



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CONFIG

CONFIG PARKING BRAKE

Message: PARKING BRAKE

Condition: The parking brake is set during takeoff.

CONFIG

CONFIG SPOILERS

Message: SPOILERS

Condition: The speedbrake lever is not DOWN during

takeoff.

CONFIG

CONFIG STABILIZER

Message: STABILIZER

Condition: The stabilizer is not in the green band during

takeoff.

EICAS CONTROL PANEL

Message: EICAS CONT PNL

Condition: The EICAS control panel is failed.

EICAS DISPLAY

Message: EICAS DISPLAY

Condition: One EICAS display is failed.



GROUND PROXIMITY SYSTEM

Message: GND PROX SYS

Condition: A ground proximity warning system fault

occurs.

1 Some or all ground proximity alerts are not available.

2 Ground proximity alerts that occur are valid.



OVSPD

OVERSPEED

Message: OVERSPEED

Condition: Airspeed is more than Vmo/Mmo.



TCAS

Message: TCAS

Condition: TCAS system is failed.



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TCAS OFF

Message: TCAS OFF

Condition: TCAS modes TA or TA/RA are not selected.

TERRAIN OVERRIDE

Message: TERR OVRD

Condition: The ground proximity terrain override switch

is in override.

1 Look-ahead terrain alerts and the terrain display

are not provided.

TERRAIN POSITION

Message: TERR POS

Condition: Terrain position data is lost.

1 Position data for the terrain map and look-ahead terrain alerts are lost. Ground proximity alerts that occur are valid.

WINDSHEAR SYSTEM

Message: WINDSHEAR SYS

Condition: A windshear system fault occurs.

1 Some or all windshear alerts are not available.

2 Windshear alerts that occur are still valid.





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Operational Information Ops Info

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Introduction

Note: This Section Reserved For Operator-Developed Information.

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Chapter PI-QRH Section 10

Flight With Unreliable Airspeed / Turbulent Air Penetration Altitude and/or vertical speed indications may also be unreliable. Climb (290/.78)

Flaps Up, Set Max Climb Thrust

| PRESSURE | | WEIGHT (1000 LB) | | | | | | |
|-----------|--------------|------------------|------|------|------|--|--|--|
| ALTITU | DE (FT) | 140 | 180 | 220 | 260 | | | |
| 40000 | PITCH ATT | 4.5 | 4.5 | | | | | |
| 40000 | V/S (FT/MIN) | 1800 | 900 | | | | | |
| 30000 | PITCH ATT | 4.5 | 4.0 | 4.0 | 4.0 | | | |
| 30000 | V/S (FT/MIN) | 2500 | 1800 | 1300 | 800 | | | |
| 20000 | PITCH ATT | 7.0 | 6.5 | 6.0 | 6.0 | | | |
| 20000 | V/S (FT/MIN) | 3900 | 2900 | 2200 | 1600 | | | |
| 10000 | PITCH ATT | 10.0 | 8.5 | 8.0 | 7.5 | | | |
| 10000 | V/S (FT/MIN) | 5100 | 3800 | 3000 | 2300 | | | |
| SEA LEVEL | PITCH ATT | 13.5 | 11.0 | 10.0 | 9.5 | | | |
| SEA LEVEL | V/S (FT/MIN) | 6100 | 4600 | 3600 | 2900 | | | |

Cruise (.78/290)

Flaps Up, EPR for Level Flight

| PRES | SURE | | WEIGHT | (1000 LB) | |
|--------|----------------|--------|--------|-----------|--------|
| ALTITU | ALTITUDE (FT) | | 180 | 220 | 260 |
| | PITCH ATT | 2.5 | 3.0 | | |
| 40000 | EPR | 1.51 | 1.62 | | |
| | (Alt Mode %N1) | (83.6) | (88.4) | | |
| | PITCH ATT | 1.5 | 2.5 | 3.0 | 3.5 |
| 35000 | EPR | 1.45 | 1.50 | 1.59 | 1.71 |
| | (Alt Mode %N1) | (81.1) | (83.6) | (87.3) | (93.6) |
| | PITCH ATT | 1.0 | 2.0 | 2.5 | 3.0 |
| 30000 | EPR | 1.41 | 1.44 | 1.48 | 1.54 |
| | (Alt Mode %N1) | (80.3) | (82.0) | (84.2) | (87.2) |
| | PITCH ATT | 1.5 | 2.0 | 2.5 | 3.5 |
| 25000 | EPR | 1.34 | 1.37 | 1.40 | 1.45 |
| | (Alt Mode %N1) | (76.6) | (78.2) | (80.3) | (82.9) |
| | PITCH ATT | 1.5 | 2.0 | 2.5 | 3.5 |
| 20000 | EPR | 1.29 | 1.31 | 1.34 | 1.38 |
| | (Alt Mode %N1) | (73.0) | (74.7) | (76.7) | (79.1) |
| | PITCH ATT | 1.5 | 2.0 | 3.0 | 3.5 |
| 15000 | EPR | 1.24 | 1.26 | 1.28 | 1.32 |
| | (Alt Mode %N1) | (69.6) | (71.3) | (73.3) | (75.7) |

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Flight With Unreliable Airspeed / Turbulent Air Penetration Altitude and/or vertical speed indications may also be unreliable. Descent (.78/290)

Flaps Up, Set Idle Thrust

| PRESSURE | | WEIGHT (1000 LB) | | | | | | |
|-----------|--------------|------------------|-------|-------|-------|--|--|--|
| ALTITU | JDE (FT) | 140 | 180 | 220 | 260 | | | |
| 40000 | PITCH ATT | -1.0 | 0.0 | | | | | |
| 40000 | V/S (FT/MIN) | -2600 | -2500 | | | | | |
| 30000 | PITCH ATT | -2.5 | -1.5 | -0.5 | 0.5 | | | |
| 30000 | V/S (FT/MIN) | -3000 | -2500 | -2300 | -2200 | | | |
| 20000 | PITCH ATT | -2.5 | -1.5 | -0.5 | 0.5 | | | |
| 20000 | V/S (FT/MIN) | -2800 | -2300 | -2100 | -2000 | | | |
| 10000 | PITCH ATT | -3.0 | -1.5 | -0.5 | 0.5 | | | |
| 10000 | V/S (FT/MIN) | -2500 | -2100 | -1900 | -1800 | | | |
| SEA LEVEL | PITCH ATT | -3.0 | -1.5 | -0.5 | 0.5 | | | |
| SEA LEVEL | V/S (FT/MIN) | -2300 | -1900 | -1700 | -1600 | | | |

Holding (VREF30 + 80) Flaps Up, EPR for Level Flight

| PRESSURE | | WEIGHT (1000 LB) | | | | | | |
|-----------|-----------------------|------------------|--------|--------|--------|--|--|--|
| ALTIT | ALTITUDE (FT) 140 180 | | | | 260 | | | |
| | PITCH ATT | | 5.5 | 6.0 | 6.0 | | | |
| 10000 | EPR | 1.15 | 1.19 | 1.23 | 1.27 | | | |
| 10000 | (Alt Mode %N1) | (55.1) | (61.0) | (66.2) | (70.6) | | | |
| | KIAS | 188 | 205 | 220 | 235 | | | |
| PITCH ATT | | 5.5 | 6.0 | 6.0 | 6.5 | | | |
| 5000 | EPR | 1.13 | 1.16 | 1.19 | 1.23 | | | |
| 3000 | (Alt Mode %N1) | (51.5) | (57.3) | (62.1) | (66.5) | | | |
| | KIAS | 188 | 205 | 220 | 235 | | | |

Terminal Area (5000 FT) EPR for Level Flight

| FLAP POSITION | | WEIGHT (1000 LB) | | | | | | |
|----------------------------|--------------------|------------------|--------|--------|--------|--|--|--|
| (VREF + IN | (VREF + INCREMENT) | | 180 | 220 | 260 | | | |
| TT 1 DG 1 | PITCH ATT | 6.5 | 7.0 | 7.5 | 8.0 | | | |
| FLAPS 1 | EPR | 1.14 | 1.18 | 1.22 | 1.25 | | | |
| (GEAR UP) (VREF30 + 60) | KIAS | 169 | 185 | 201 | 216 | | | |
| (VKE150 + 00) | (Alt Mode %N1) | (52.5) | (58.5) | (64.3) | (68.5) | | | |
| EL ADG 5 | PITCH ATT | 7.0 | 7.5 | 7.5 | 8.0 | | | |
| FLAPS 5 | EPR | 1.15 | 1.19 | 1.23 | 1.27 | | | |
| (GEAR UP) (VREF30 + 40) | KIAS | 149 | 165 | 181 | 196 | | | |
| (VICEI 30 + 40) | (Alt Mode %N1) | (53.1) | (59.6) | (65.2) | (69.6) | | | |
| EL 1 DG 15 | PITCH ATT | 8.0 | 8.0 | 8.0 | 7.5 | | | |
| FLAPS 15 (GEAR UP) | EPR | 1.17 | 1.21 | 1.26 | 1.30 | | | |
| (VREF30 + 20) | KIAS | 128 | 145 | 161 | 176 | | | |
| (VICEI 30 + 20) | (Alt Mode %N1) | (55.6) | (62.5) | (67.7) | (72.5) | | | |
| EL A DC 20 | PITCH ATT | 5.0 | 5.0 | 5.0 | 5.0 | | | |
| FLAPS 20 (GEAR UP) | EPR | 1.18 | 1.23 | 1.28 | 1.32 | | | |
| (VREF30 + 20) | KIAS | 128 | 145 | 161 | 176 | | | |
| (*REF 50 + 20) | (Alt Mode %N1) | (57.4) | (64.1) | (69.6) | (74.3) | | | |

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Flight With Unreliable Airspeed / Turbulent Air Penetration Altitude and/or vertical speed indications may also be unreliable. Final Approach (1500 FT)
Gear Down, EPR for 3° Glideslope

| FLAP POSITION | | WEIGHT (1000 LB) | | | | | | |
|---------------|--------------------|------------------|--------|--------|--------|--|--|--|
| (VREF + IN | (VREF + INCREMENT) | | 180 | 220 | 260 | | | |
| | PITCH ATT | 2.5 | 2.5 | 2.5 | 2.5 | | | |
| FLAPS 25 | EPR | 1.12 | 1.16 | 1.19 | 1.22 | | | |
| (VREF25 + 10) | KIAS | 121 | 137 | 152 | 167 | | | |
| | (Alt Mode %N1) | (48.8) | (54.4) | (59.8) | (64.2) | | | |
| | PITCH ATT | 1.0 | 1.0 | 0.5 | 0.5 | | | |
| FLAPS 30 | EPR | 1.15 | 1.19 | 1.23 | 1.27 | | | |
| (VREF30 + 10) | KIAS | 118 | 135 | 151 | 165 | | | |
| | (Alt Mode %N1) | (52.7) | (59.5) | (64.8) | (69.5) | | | |

FAA

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Max Climb EPR

Based on engine bleed for packs on and anti-ice off

| m.m. | | PRI | ESSURE AI | LTITUDE (| 1000 FT) / S | SPEED (KIA | AS OR MAG | CH) | |
|----------------|------|------|-----------|-----------|--------------|------------|-----------|------|------|
| TAT (°C) | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| (C) | 250 | 250 | 250 | 290 | 290 | 290 | 290 | .78 | .78 |
| 60 | 1.41 | 1.41 | 1.40 | 1.40 | 1.40 | 1.39 | 1.39 | 1.39 | 1.38 |
| 50 | 1.45 | 1.45 | 1.45 | 1.45 | 1.44 | 1.43 | 1.44 | 1.44 | 1.43 |
| 40 | 1.50 | 1.50 | 1.50 | 1.50 | 1.49 | 1.49 | 1.49 | 1.49 | 1.48 |
| 30 | 1.52 | 1.56 | 1.55 | 1.55 | 1.55 | 1.54 | 1.54 | 1.55 | 1.53 |
| 20 | 1.52 | 1.57 | 1.61 | 1.61 | 1.61 | 1.60 | 1.60 | 1.61 | 1.60 |
| 10 | 1.52 | 1.57 | 1.61 | 1.66 | 1.67 | 1.66 | 1.67 | 1.67 | 1.66 |
| 0 | 1.52 | 1.57 | 1.61 | 1.66 | 1.69 | 1.72 | 1.72 | 1.73 | 1.72 |
| -10 | 1.52 | 1.57 | 1.61 | 1.66 | 1.69 | 1.72 | 1.75 | 1.77 | 1.76 |
| -20 & BELOW | 1.52 | 1.57 | 1.61 | 1.66 | 1.69 | 1.72 | 1.75 | 1.79 | 1.80 |

EPR Adjustments for Engine Bleeds

| BLEED | | PRESSURE ALTITUDE (1000 FT) | | | | | | | |
|---------------------------|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
| CONFIGURATION | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| ENGINE ANTI-ICE ON | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | -0.02 |
| ENGINE & WING ANTI-ICE ON | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.03 | -0.03 | -0.04 | -0.05 |

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VREF (KIAS)

| WEIGHT | FLAPS | | |
|-----------|-------|-----|-----|
| (1000 LB) | 30 | 25 | 20 |
| 260 | 155 | 157 | 165 |
| 240 | 148 | 150 | 158 |
| 220 | 140 | 142 | 151 |
| 200 | 133 | 135 | 144 |
| 180 | 125 | 127 | 136 |
| 160 | 117 | 119 | 128 |
| 140 | 109 | 111 | 119 |

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Performance Inflight - QRH Advisory Information

Chapter PI-QRH Section 11

ADVISORY INFORMATION

Normal Configuration Landing Distance Flaps 30 Dry Runway

| | | LANDING DISTANCE AND ADJUSTMENTS (FT) | | | | | | | | | | | | |
|---|--------------------------|---------------------------------------|-----------|---------------------------------|---------------|----------------|--------------|------------|------------|---------------|----------------------------------|-------------------|-----------|--|
| | | REF DIST | WT ADJ | ALT ADJ | WINI PER 1 | O ADJ 0 KTS | SLOPE PER | | | P ADJ 10°C | VREF ADJ | REVI THR AI | UST | |
| | BRAKING CONFIGURATION | WEIGHT | | PER 1000 FT STD/ HIGH* | | | DOWN HILL | UP HILL | ABV ISA | ISA | PER 10 KTS ABOVE VREF30 | REV | NO REV | |
| | MAX MANUAL | 2670 | +100/-90 | 60/70 | -110 | 380 | 40 | -30 | 50 | -50 | 220 | 50 | 100 | |
| | MAX AUTO | 4060 | +160/-160 | 90/120 | -180 | 580 | 50 | -50 | 90 | -90 | 310 | 130 | 260 | |
| | AUTOBRAKE 4 | 4390 | +190/-180 | 110/140 | -210 | 680 | 60 | -60 | 100 | -100 | 360 | 140 | 290 | |
| ĺ | AUTOBRAKE 3 | 4970 | +240/-230 | 130/170 | -260 | 850 | 70 | -70 | 130 | -130 | 450 | 160 | 330 | |
| ĺ | AUTOBRAKE 2 | 5500 | +290/-280 | 160/210 | -300 | 1010 | 120 | -130 | 150 | -150 | 460 | 270 | 450 | |
| ĺ | AUTOBRAKE 1 | 5910 | +330/-330 | 190/250 | -350 | 1170 | 200 | -210 | 160 | -160 | 460 | 600 | 900 | |

Good Reported Braking Action

| MAX MANUAL | 3510 | +160/-140 | 90/120 | -170 | 610 | 80 | -70 | 80 | -80 | 290 | 180 | 430 |
|-------------|------|-----------|---------|------|-----|-----|-----|-----|------|-----|-----|-----|
| MAX AUTO | 4250 | +180/-180 | 100/140 | -200 | 690 | 100 | -90 | 90 | -90 | 310 | 310 | 730 |
| AUTOBRAKE 4 | 4430 | +190/-190 | 110/140 | -220 | 730 | 80 | -70 | 100 | -100 | 360 | 180 | 530 |
| AUTOBRAKE 3 | 4970 | +240/-230 | 130/170 | -260 | 850 | 80 | -70 | 130 | -130 | 450 | 160 | 330 |

Medium Reported Braking Action

| | MAX MANUAL | 4610 | +230/-210 | 130/180 | -260 | 980 | 190 | -150 | 110 | -110 | 370 | 520 | 1350 |
|---|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|-----|------|
| | MAX AUTO | 4940 | +250/-240 | 140/190 | -290 | 1020 | 200 | -170 | 120 | -120 | 360 | 650 | 1680 |
| | AUTOBRAKE 4 | 4950 | +250/-240 | 140/190 | -290 | 1020 | 200 | -170 | 120 | -120 | 360 | 640 | 1670 |
| 1 | AUTOBRAKE 3 | 5170 | +260/-240 | 140/190 | -300 | 1050 | 160 | -120 | 130 | -130 | 450 | 450 | 1430 |

Poor Reported Braking Action

| | - | ' | | | | | | | | | | |
|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|------|------|
| MAX MANUAL | 5750 | +320/-280 | 180/250 | -380 | 1500 | 420 | -280 | 140 | -140 | 420 | 1080 | 3250 |
| MAX AUTO | 5810 | +330/-300 | 190/260 | -380 | 1510 | 420 | -310 | 140 | -150 | 410 | 1180 | 3540 |
| AUTOBRAKE 4 | 5820 | +330/-300 | 190/260 | -380 | 1510 | 420 | -310 | 140 | -150 | 410 | 1180 | 3540 |
| AUTOBRAKE 3 | 5840 | +330/-300 | 190/260 | -380 | 1520 | 410 | -290 | 140 | -150 | 450 | 1160 | 3510 |

Reference distance is for sea level, standard day, no wind or slope, VREF30 approach speed and 2 engine reverse thrust.

Max Manual braking data valid for auto speedbrakes. For manual speedbrakes, increase reference landing distance by 280 ft.

Autobrake data valid for both auto and manual speedbrakes.

Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply the HIGH adjustment to this new reference distance.

ADVISORY INFORMATION

Normal Configuration Landing Distance Flaps 25 Dry Runway

| | | | LANDING DISTANCE AND ADJUSTMENTS (FT) | | | | | | | | | | | |
|---|--------------------------|-------------|---------------------------------------|---------------------------------|---------------|------|--------------|------------|-------------|---------------|----------------------------------|-------------------|-----------|--|
| | | REF DIST | WT ADJ | ALT ADJ | WINI PER 1 | | SLOPE PER | | TEMI PER | P ADJ 10°C | VREF ADJ | REVE THR AI | UST | |
| | BRAKING CONFIGURATION | WEIGHT | | PER 1000 FT STD/ HIGH* | WIND | | DOWN HILL | UP HILL | ABV ISA | ISA | PER 10 KTS ABOVE VREF25 | REV | NO REV | |
| 1 | MAX MANUAL | 2710 | +110/-90 | 60/70 | -110 | 380 | 40 | -30 | 50 | -50 | 220 | 50 | 110 | |
| | MAX AUTO | 4200 | +160/-160 | 90/120 | -180 | 590 | 60 | -50 | 90 | -90 | 320 | 140 | 280 | |
| 1 | AUTOBRAKE 4 | 4550 | +190/-190 | 110/140 | -210 | 690 | 60 | -60 | 110 | -110 | 380 | 150 | 300 | |
| 1 | AUTOBRAKE 3 | 5180 | +240/-230 | 140/180 | -260 | 870 | 80 | -80 | 140 | -140 | 480 | 170 | 340 | |
| | AUTOBRAKE 2 | 5760 | +290/-280 | 170/220 | -310 | 1040 | 120 | -130 | 160 | -160 | 490 | 260 | 460 | |
| | AUTOBRAKE 1 | 6210 | +340/-340 | 200/260 | -360 | 1210 | 210 | -220 | 170 | -170 | 490 | 630 | 920 | |

Good Reported Braking Action

| MAX MANUAL | 3590 | +150/-140 | 90/120 | -170 | 610 | 90 | -70 | 80 | -80 | 300 | 190 | 450 |
|-------------|------|-----------|---------|------|-----|-----|------|-----|------|-----|-----|-----|
| MAX AUTO | 4390 | +180/-180 | 110/140 | -210 | 710 | 110 | -100 | 100 | -100 | 320 | 330 | 780 |
| AUTOBRAKE 4 | 4600 | +190/-190 | 110/150 | -220 | 740 | 80 | -70 | 110 | -110 | 380 | 190 | 560 |
| AUTOBRAKE 3 | 5180 | +240/-230 | 140/180 | -260 | 870 | 80 | -80 | 140 | -140 | 480 | 170 | 350 |

Medium Reported Braking Action

| MAX MANUAL | 4770 | +240/-210 | 140/190 | -270 | 990 | 200 | -160 | 110 | -120 | 380 | 550 | 1460 |
|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|-----|------|
| MAX AUTO | 5140 | +250/-240 | 150/200 | -300 | 1040 | 210 | -180 | 120 | -130 | 380 | 700 | 1830 |
| AUTOBRAKE 4 | 5150 | +250/-240 | 150/200 | -300 | 1040 | 210 | -180 | 120 | -130 | 380 | 690 | 1810 |
| AUTOBRAKE 3 | 5380 | +260/-240 | 150/200 | -310 | 1080 | 170 | -120 | 140 | -140 | 480 | 490 | 1560 |

Poor Reported Braking Action

| 1 | MAX MANUAL | 6000 | +330/-290 | 190/270 | -390 | 1530 | 440 | -300 | 150 | -150 | 440 | 1180 | 3600 |
|---|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|------|------|
| | MAX AUTO | 6080 | +340/-320 | 200/280 | -390 | 1550 | 440 | -330 | 150 | -150 | 430 | 1300 | 3920 |
| | AUTOBRAKE 4 | 6080 | +340/-320 | 200/280 | -390 | 1550 | 440 | -330 | 150 | -150 | 430 | 1290 | 3920 |
| ĺ | AUTOBRAKE 3 | 6100 | +330/-310 | 200/270 | -390 | 1550 | 430 | -310 | 150 | -160 | 480 | 1270 | 3900 |

Reference distance is for sea level, standard day, no wind or slope, VREF25 approach speed and 2 engine reverse thrust.

Max Manual braking data valid for auto speedbrakes. For manual speedbrakes, increase reference landing distance by 290 ft.

Autobrake data valid for both auto and manual speedbrakes.

Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply the HIGH adjustment to this new reference distance.

DO NOT USE FOR FLIGHT Performance Inflight - QRH Advisory Information

757 Flight Crew Operations Manual

ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Dry Runway

| | | I | ANDING I | DISTANCE A | AND AI | JUST | MENTS | (FT) | |
|---|-----------|--------------------------------|------------------------------|--------------------------------|--------|------|--------------|------|---------------------------------|
| LANDING | VREF | REFERENCE DISTANCE* FOR | WT ADJ PER 5000 LB | ALTITUDE ADJ PER 1000 FT | PER I | KTS | PER | 1% | APPROACH SPEED PER 10 KTS |
| CONFIGURATION | | 190000 LB LANDING WEIGHT | ABOVE/ BELOW 190000 LB | STD/HIGH *** | | | DOWN HILL | | ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | 3540 | 70/-60 | 75/105 | -150 | 530 | 75 | -65 | 400 |
| ANTI-SKID SYSTEM INOP | VREF30 | 4120 | 90/-80 | 100/130 | -200 | 745 | 100 | -85 | 335 |
| FLAPS UP | VREF30+50 | 3720 | 175/-60 | 105/165 | -160 | 615 | 60 | -55 | 305 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 2750 | 55/-45 | 60/75 | -110 | 400 | 40 | -35 | 240 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 3210 | 65/-55 | 70/90 | -130 | 465 | 50 | -45 | 310 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 3490 | 65/-60 | 75/105 | -140 | 485 | 55 | -45 | 310 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 3250 | 70/-60 | 75/105 | -140 | 505 | 70 | -60 | 355 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 3910 | 75/-65 | 90/120 | -150 | 525 | 70 | -60 | 365 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 4050 | 85/-75 | 105/140 | -165 | 580 | 100 | -85 | 430 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | 5250 | 110/-95 | 140/185 | -220 | 750 | 375 | -280 | 690 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*** For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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^{**}Reserve Brake System only.

ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Dry Runway

| | | | LANDING I | DISTANCE A | ND AE | JUST! | MENTS | (FT) | |
|---|-----------|---------------------------------------|---|----------------------------|----------------|-------|--------------|------|-----------------------------|
| LANDRIC | | REFERENCE DISTANCE* | WT ADJ PER | ALTITUDE ADJ PER | WIND PER 10 | | SLOPE PER | | APPROACH SPEED |
| LANDING CONFIGURATION | VREF | FOR 190000 LB LANDING WEIGHT | 5000 LB ABOVE/ BELOW 190000 LB | 1000 FT STD/HIGH *** | | | DOWN HILL | | PER 10 KTS ABOVE VREF |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 2890 | 70/-50 | 60/80 | -110 | 400 | 40 | -40 | 220 |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 3350 | 100/-50 | 80/110 | -130 | 440 | 50 | -40 | 240 |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 3600 | 140/-60 | 90/130 | -130 | 460 | 50 | -50 | 240 |
| LE SLAT DISAGREE | VREF20 | 2890 | 70/-50 | 65/85 | -115 | 440 | 40 | -35 | 230 |
| ONE ENGINE INOP | VREF20 | 2940 | 75/-50 | 65/85 | -120 | 455 | 45 | -40 | 240 |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 3390 | 105/-55 | 80/105 | -140 | 515 | 55 | -50 | 275 |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 2890 | 70/-50 | 65/85 | -115 | 440 | 40 | -35 | 230 |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>3300</td><td>125/-55</td><td>75/105</td><td>-140</td><td>510</td><td>50</td><td>-45</td><td>260</td></flaps<20<> | VREF30+30 | 3300 | 125/-55 | 75/105 | -140 | 510 | 50 | -45 | 260 |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 3510 | 145/-55 | 85/125 | -145 | 545 | 55 | -50 | 275 |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 2890 | 70/-50 | 65/85 | -115 | 440 | 40 | -35 | 230 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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Non-Normal Configuration Landing Distance Good Reported Braking Action

| | | I | LANDING I | DISTANCE A | AND AI | DJUST | MENTS | (FT) | |
|---|-----------|--|------------------------------------|--------------------------------|----------------|-------|----------------------|------|---------------------------------|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB | WT ADJ PER 5000 LB ABOVE/ | ALTITUDE ADJ PER 1000 FT | WINE PER 10 | KTS | SLOPE PER DOWN | 1% | APPROACH SPEED PER 10 KTS |
| | | LANDING WEIGHT | BELOW 190000 LB | STD/HIGH *** | | | HILL | | ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | 5140 | 110/-95 | 130/165 | -265 | 950 | 245 | -185 | 590 |
| ANTI-SKID SYSTEM INOP | VREF30 | 4980 | 120/-105 | 135/180 | -280 | 1070 | 195 | -155 | 390 |
| FLAPS UP | VREF30+50 | 5140 | 105/-95 | 145/205 | -215 | 770 | 125 | -105 | 305 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 3610 | 85/-70 | 90/120 | -175 | 645 | 95 | -80 | 315 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 4260 | 95/-85 | 110/140 | -205 | 750 | 130 | -105 | 415 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 4720 | 95/-95 | 125/170 | -220 | 790 | 145 | -120 | 430 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 4150 | 100/-85 | 110/150 | -205 | 745 | 145 | -120 | 445 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 5330 | 115/-105 | 145/200 | -240 | 855 | 180 | -145 | 490 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 5270 | 120/-105 | 150/210 | -245 | 855 | 205 | -165 | 535 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | 6750 | 145/-130 | 195/265 | -310 | 1060 | 1320 | -780 | 865 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

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^{**}Reserve Brake System only.

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Good Reported Braking Action

| | | I | LANDING I | DISTANCE A | AND AI | JUST | MENTS | (FT) | |
|--|-----------|---|---|---|--------|------|------------------------------|----------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING | WT ADJ PER 5000 LB ABOVE/ BELOW | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | | TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | WEIGHT 3880 | 190000 LB 80/-80 | 100/140 | -180 | 650 | 100 | -80 | 300 |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 4500 | 90/-90 | 120/170 | -200 | 700 | 110 | -100 | 320 |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 4930 | 100/-90 | 140/200 | -210 | 740 | 120 | -110 | 330 |
| LE SLAT DISAGREE | VREF20 | 3880 | 115/-105 | 100/140 | -240 | 855 | 180 | -145 | 490 |
| ONE ENGINE INOP | VREF20 | 4070 | 85/-80 | 105/145 | -195 | 705 | 120 | -100 | 335 |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 4700 | 95/-90 | 125/175 | -215 | 760 | 135 | -115 | 340 |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 3880 | 80/-75 | 100/140 | -185 | 670 | 100 | -85 | 300 |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>4490</td><td>95/-85</td><td>120/170</td><td>-200</td><td>720</td><td>110</td><td>-95</td><td>305</td></flaps<20<> | VREF30+30 | 4490 | 95/-85 | 120/170 | -200 | 720 | 110 | -95 | 305 |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 4800 | 100/-90 | 135/180 | -205 | 740 | 115 | -100 | 305 |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 3880 | 80/-75 | 100/140 | -185 | 670 | 100 | -85 | 300 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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Non-Normal Configuration Landing Distance Medium Reported Braking Action

| | | I | ANDING I | DISTANCE A | AND AI | JUST | MENTS | (FT) | |
|---|-----------|---|--|---|--------|------|------------------------------|----------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | HEAD | TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | 8380 | 160/-120 | 225/300 | -530 | 2000 | 1125 | -620 | 830 |
| ANTI-SKID SYSTEM INOP | VREF30 | 6170 | 160/-145 | 185/245 | -400 | 1655 | 465 | -300 | 445 |
| FLAPS UP | VREF30+50 | 7070 | 160/-150 | 225/315 | -340 | 1260 | 315 | -240 | 405 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 4760 | 125/-105 | 140/180 | -270 | 1055 | 230 | -170 | 390 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 5810 | 145/-130 | 170/235 | -335 | 1270 | 355 | -250 | 525 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 6600 | 155/-145 | 200/290 | -365 | 1350 | 410 | -290 | 565 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 5780 | 155/-135 | 180/245 | -335 | 1275 | 395 | -275 | 550 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 7450 | 175/-160 | 235/330 | -395 | 1450 | 495 | -345 | 625 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 7520 | 185/-165 | 250/355 | -400 | 1470 | 550 | -385 | 675 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | 10640 | 235/-210 | 350/490 | -555 | 1970 | 5660 | -1995 | 1190 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*** For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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Non-Normal Configuration Landing Distance Medium Reported Braking Action

| | | 8 | | | | | | | |
|--|-----------|---|--|---|--------|------|------------------------------|----------|--|
| | | I | LANDING I | DISTANCE A | AND AI | JUST | MENTS | (FT) | |
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | | TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 5250 | 120/-120 | 160/230 | -290 | 1070 | 240 | -190 | 390 |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 6040 | 140/-130 | 190/270 | -320 | 1140 | 260 | -210 | 390 |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 6740 | 160/-150 | 210/300 | -340 | 1200 | 290 | -240 | 420 |
| LE SLAT DISAGREE | VREF20 | 5250 | 175/-160 | 155/225 | -395 | 1450 | 495 | -345 | 625 |
| ONE ENGINE INOP | VREF20 | 5770 | 135/-130 | 170/235 | -325 | 1215 | 335 | -245 | 450 |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 6620 | 155/-145 | 200/280 | -350 | 1290 | 365 | -270 | 445 |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 5250 | 125/-115 | 155/225 | -290 | 1110 | 255 | -190 | 385 |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>6150</td><td>145/-130</td><td>190/270</td><td>-315</td><td>1190</td><td>285</td><td>-215</td><td>395</td></flaps<20<> | VREF30+30 | 6150 | 145/-130 | 190/270 | -315 | 1190 | 285 | -215 | 395 |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 6550 | 150/-140 | 205/290 | -325 | 1220 | 295 | -225 | 395 |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 5250 | 125/-115 | 155/225 | -290 | 1110 | 255 | -190 | 385 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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Non-Normal Configuration Landing Distance Poor Reported Braking Action

| | | I | ANDING I | DISTANCE A | AND AE | JUST | MENTS | (FT) | |
|---|-----------|---|--|---|--------|------|------------------------------|----------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | | TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | > 15000 | ı | ı | ı | - | - | - | - |
| ANTI-SKID SYSTEM INOP | VREF30 | 8090 | 230/-205 | 260/350 | -660 | 3115 | 3435 | -690 | 490 |
| FLAPS UP | VREF30+50 | 9150 | 230/-210 | 315/470 | -505 | 1965 | 765 | -470 | 480 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 5980 | 165/-145 | 190/255 | -400 | 1645 | 545 | -320 | 435 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 7710 | 205/-180 | 255/355 | -525 | 2125 | 1035 | -530 | 605 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 8910 | 225/-210 | 305/475 | -570 | 2265 | 1200 | -620 | 675 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 7750 | 215/-185 | 270/370 | -530 | 2145 | 1110 | -565 | 630 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 10050 | 255/-225 | 355/525 | -625 | 2420 | 1430 | -730 | 725 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 10250 | 270/-240 | 375/560 | -635 | 2460 | 1555 | -790 | 770 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | > 15000 | - | - | - | - | - | - | - |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

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Non-Normal Configuration Landing Distance Poor Reported Braking Action

| • | U | | | | | | | | |
|--|-----------|--|------------------------------------|--|--------|--------|-------------|----------|--|
| | | I | | DISTANCE A | AND AI | DJUST. | | _ / | |
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB | WT ADJ PER 5000 LB ABOVE/ | ALTITUDE ADJ PER 1000 FT STD/HIGH | | TAIL | PER DOWN | 1% UP | APPROACH SPEED PER 10 KTS ABOVE |
| | | LANDING WEIGHT | BELOW 190000 LB | *** | WIND | WIND | HILL | HILL | VREF |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 6780 | 170/-160 | 220/330 | -440 | 1690 | 570 | -370 | 450 |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 7690 | 200/-180 | 260/380 | -460 | 1770 | 600 | -400 | 450 |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 8680 | 220/-200 | 300/430 | -500 | 1860 | 670 | -450 | 490 |
| LE SLAT DISAGREE | VREF20 | 6780 | 255/-225 | 220/330 | -625 | 2420 | 1430 | -730 | 725 |
| ONE ENGINE INOP | VREF20 | 7830 | 200/-190 | 255/355 | -505 | 1990 | 925 | -515 | 545 |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 8850 | 225/-205 | 290/410 | -535 | 2080 | 975 | -555 | 525 |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 6780 | 175/-160 | 220/330 | -435 | 1755 | 640 | -375 | 450 |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>7960</td><td>205/-185</td><td>270/395</td><td>-475</td><td>1865</td><td>705</td><td>-420</td><td>465</td></flaps<20<> | VREF30+30 | 7960 | 205/-185 | 270/395 | -475 | 1865 | 705 | -420 | 465 |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 8430 | 215/-195 | 290/420 | -485 | 1900 | 720 | -435 | 460 |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 6780 | 175/-160 | 220/330 | -435 | 1755 | 640 | -375 | 450 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

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Recommended Brake Cooling Schedule Reference Brake Energy Per Brake (Millions of Foot Pounds)

| | | | | | | | | BRA | KES | ON | SPEE | D (K) | (AS) | | | | | | |
|-----------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
| | | | 80 | | | 100 | | | 120 | | | 140 | | | 160 | | | 180 | |
| WEIGHT | OAT | PRI | ESS A | ALT | PRI | ESS A | ALT | PR | ESS A | \LT | PR | ESS A | ALT | PR | ESS A | ALT | PR | ESS A | \LT |
| (1000 LB) | (°F) | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 |
| | 40 | 9.5 | 11.1 | 12.8 | 14.4 | 17.1 | 19.8 | 20.1 | 24.1 | 28.1 | 26.5 | 31.8 | 37.1 | 33.4 | 39.8 | | 40.3 | | |
| | 60 | 9.8 | 11.6 | 13.3 | 14.9 | 17.8 | 20.6 | 20.9 | 25.0 | 29.2 | 27.5 | 33.0 | 38.5 | 34.6 | 41.3 | | 41.8 | | |
| 260 | 80 | 10.1 | 12.0 | 13.8 | 15.4 | 18.4 | 21.3 | 21.6 | 25.9 | 30.2 | 28.5 | 34.2 | 39.8 | 35.8 | 42.7 | | 43.3 | | |
| | 100 | 10.4 | 12.3 | 14.1 | 15.9 | 18.9 | 21.9 | 22.2 | 26.6 | 31.1 | 29.4 | 35.2 | 41.1 | 36.9 | 44.0 | | 44.6 | | |
| | 120 | 10.6 | 12.5 | 14.4 | 16.2 | 19.3 | 22.5 | 22.8 | 27.3 | 31.9 | 30.1 | 36.1 | 42.2 | 37.9 | 45.2 | | 45.8 | | |
| | 40 | 8.8 | 10.4 | 12.0 | 13.4 | 15.9 | 18.4 | 18.7 | 22.3 | 26.0 | 24.6 | 29.5 | 34.4 | 31.0 | 37.0 | 43.1 | 37.5 | | |
| | 60 | 9.2 | 10.8 | 12.4 | 13.9 | 16.5 | 19.1 | 19.4 | 23.2 | 27.0 | 25.5 | 30.6 | 35.7 | 32.1 | 38.4 | 44.7 | 39.0 | | |
| 240 | 80 | 9.5 | 11.1 | 12.8 | 14.4 | 17.1 | 19.8 | 20.0 | 24.0 | 27.9 | 26.4 | 31.7 | 37.0 | 33.2 | 39.7 | 46.2 | 40.3 | | |
| | 100 | 9.7 | 11.4 | 13.2 | 14.8 | 17.5 | 20.3 | 20.6 | 24.7 | 28.8 | 27.2 | 32.7 | 38.1 | 34.3 | 41.0 | 47.6 | 41.5 | | |
| | 120 | 9.9 | 11.7 | 13.4 | 15.1 | 17.9 | 20.8 | 21.1 | 25.3 | 29.5 | 27.9 | 33.5 | 39.1 | 35.2 | 42.1 | 49.0 | 42.7 | | |
| | 40 | 8.2 | 9.6 | 11.1 | 12.4 | 14.7 | 17.0 | 17.2 | 20.6 | 23.9 | 22.6 | 27.2 | 31.7 | 28.5 | 34.1 | 39.8 | 34.7 | 41.3 | |
| | 60 | 8.5 | 10.0 | 11.5 | 12.9 | 15.2 | 17.6 | 17.9 | 21.3 | 24.8 | 23.5 | 28.2 | 32.9 | 29.6 | 35.4 | 41.3 | 36.0 | 42.8 | |
| 220 | 80 | 8.8 | 10.3 | 11.9 | 13.3 | 15.8 | 18.2 | 18.5 | 22.1 | 25.7 | 24.3 | 29.2 | 34.0 | 30.6 | 36.7 | 42.7 | 37.2 | 44.3 | |
| | 100 | 9.0 | 10.6 | 12.2 | 13.6 | 16.2 | 18.8 | 19.0 | 22.7 | 26.5 | 25.0 | 30.0 | 35.1 | 31.5 | 37.8 | 44.0 | 38.3 | 45.6 | |
| | 120 | 9.2 | 10.8 | 12.4 | 13.9 | 16.6 | 19.2 | 19.5 | 23.3 | 27.1 | 25.6 | 30.8 | 36.0 | 32.4 | 38.8 | 45.2 | 39.4 | 46.9 | |
| | 40 | 7.6 | 8.9 | 10.2 | 11.4 | 13.5 | 15.6 | 15.8 | 18.8 | 21.8 | 20.6 | 24.8 | 28.9 | 26.0 | 31.2 | 36.4 | 31.6 | 37.8 | 43.9 |
| | 60 | 7.9 | 9.2 | 10.6 | 11.8 | 14.0 | 16.2 | 16.4 | 19.5 | 22.7 | 21.4 | 25.7 | 30.0 | 27.0 | 32.3 | 37.7 | 32.8 | 39.2 | 45.6 |
| 200 | 80 | 8.1 | 9.5 | 10.9 | 12.2 | 14.5 | 16.7 | 16.9 | 20.2 | 23.4 | 22.2 | 26.6 | 31.0 | 27.9 | 33.5 | 39.0 | 34.0 | 40.5 | 47.1 |
| | 100 | 8.3 | 9.8 | 11.2 | 12.5 | 14.9 | 17.2 | 17.4 | 20.8 | 24.1 | 22.8 | 27.4 | 31.9 | 28.7 | 34.5 | 40.2 | 35.0 | 41.8 | 48.6 |
| | 120 | 8.5 | 9.9 | 11.4 | 12.8 | 15.2 | 17.6 | 17.8 | 21.3 | 24.7 | 23.4 | 28.1 | 32.8 | 29.5 | 35.4 | 41.3 | 35.9 | 42.9 | 50.0 |
| | 40 | 7.0 | 8.2 | 9.3 | 10.4 | 12.3 | 14.1 | 14.3 | 17.0 | 19.7 | 18.6 | 22.3 | 26.0 | 23.4 | 28.1 | 32.8 | 28.5 | 34.1 | 39.7 |
| | 60 | 7.2 | 8.5 | 9.7 | 10.8 | 12.7 | 14.7 | 14.8 | 17.7 | 20.5 | 19.3 | 23.2 | 27.0 | 24.3 | 29.1 | 34.0 | 29.5 | 35.4 | 41.2 |
| 180 | 80 | 7.5 | 8.7 | 10.0 | 11.1 | 13.2 | 15.2 | 15.3 | 18.3 | 21.2 | 20.0 | 24.0 | 27.9 | 25.1 | 30.2 | 35.2 | 30.6 | 36.6 | 42.6 |
| | 100 | 7.6 | 8.9 | 10.2 | 11.4 | 13.5 | 15.6 | 15.8 | 18.8 | 21.8 | 20.6 | 24.7 | 28.7 | 25.9 | 31.1 | 36.3 | 31.5 | 37.7 | 44.0 |
| | 120 | 7.8 | 9.1 | 10.4 | 11.6 | 13.8 | 15.9 | 16.1 | 19.2 | 22.3 | 21.1 | 25.3 | 29.5 | 26.5 | 31.9 | 37.2 | 32.3 | 38.7 | 45.2 |
| | 40 | 6.4 | 7.4 | 8.4 | 9.4 | 11.0 | 12.7 | 12.8 | 15.2 | 17.6 | 16.6 | 19.8 | 23.1 | 20.7 | 24.9 | 29.0 | 25.2 | 30.2 | 35.2 |
| | 60 | 6.6 | 7.7 | 8.8 | 9.7 | 11.5 | 13.2 | 13.3 | 15.8 | 18.3 | 17.2 | 20.6 | 23.9 | 21.5 | 25.8 | 30.1 | 26.1 | 31.3 | 36.6 |
| 160 | 80 | 6.8 | 7.9 | 9.1 | 10.0 | 11.8 | 13.6 | 13.7 | 16.3 | 18.9 | 17.8 | 21.3 | 24.8 | 22.3 | 26.7 | 31.2 | 27.0 | 32.4 | 37.8 |
| | 100 | 6.9 | 8.1 | 9.3 | 10.3 | 12.2 | 14.0 | 14.1 | 16.8 | 19.4 | 18.3 | 21.9 | 25.5 | 22.9 | 27.5 | 32.1 | 27.8 | 33.4 | 39.0 |
| | 120 | 7.0 | 8.2 | 9.4 | 10.5 | 12.4 | 14.3 | 14.4 | 17.2 | 19.9 | 18.8 | 22.5 | 26.1 | 23.5 | 28.2 | 32.9 | 28.5 | 34.3 | 40.0 |
| | 40 | 5.7 | 6.7 | 7.6 | 8.4 | 9.8 | 11.3 | 11.3 | 13.4 | 15.5 | 14.6 | 17.3 | 20.1 | 18.0 | 21.6 | 25.1 | 21.7 | 26.1 | 30.4 |
| | 60 | 5.9 | 6.9 | 7.9 | 8.7 | 10.2 | 11.7 | 11.8 | 13.9 | 16.1 | 15.1 | 18.0 | 20.9 | 18.7 | 22.4 | 26.1 | 22.6 | 27.1 | 31.6 |
| 140 | 80 | 6.1 | 7.1 | 8.1 | 9.0 | 10.5 | 12.1 | 12.1 | 14.4 | 16.6 | 15.6 | 18.6 | 21.6 | 19.4 | 23.2 | 27.0 | 23.3 | 28.0 | 32.7 |
| | 100 | 6.3 | 7.3 | 8.3 | 9.2 | 10.8 | 12.4 | 12.5 | 14.8 | 17.1 | 16.1 | 19.2 | 22.2 | 19.9 | 23.8 | 27.8 | 24.0 | 28.8 | 33.7 |
| | 120 | 6.3 | 7.4 | 8.4 | 9.3 | | 12.7 | 12.7 | 15.1 | 17.5 | 16.4 | 19.6 | 22.8 | 20.4 | 24.4 | 28.5 | 24.6 | 29.6 | 34.5 |

^{*}To correct for wind, enter table with the brakes on speed minus one half the headwind or plus 1.5 times the tailwind. If ground speed is used for brakes on speed, ignore wind altitude, and OAT effects.

ADVISORY INFORMATION

Recommended Brake Cooling Schedule Adjusted Brake Energy Per Brake (Millions of Foot Pounds) No Reverse Thrust

| | | REF | ERENC! | E BRAK | E ENE | RGY PE | R BRAK | Œ (MIL | LIONS | OF FOO | T POU | NDS) |
|-------|-------------|------|--------|--------|-------|--------|--------|--------|-------|--------|-------|------|
| | EVENT | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| R | TO MAX MAN | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 |
| | MAX MAN | 8.6 | 10.5 | 12.4 | 14.3 | 16.2 | 18.1 | 20.0 | 22.0 | 23.9 | 25.8 | 27.7 |
| Ō | MAX AUTO | 8.5 | 10.3 | 12.1 | 13.9 | 15.7 | 17.5 | 19.3 | 21.1 | 22.9 | 24.7 | 26.6 |
| NDING | AUTOBRAKE 4 | 8.4 | 10.2 | 11.9 | 13.6 | 15.3 | 17.0 | 18.7 | 20.4 | 22.1 | 23.8 | 25.6 |
| ΙZ | AUTOBRAKE 3 | 8.3 | 9.9 | 11.5 | 13.1 | 14.7 | 16.3 | 17.9 | 19.5 | 21.1 | 22.7 | 24.3 |
| Ţ | AUTOBRAKE 2 | 8.1 | 9.6 | 11.1 | 12.6 | 14.1 | 15.5 | 17.0 | 18.5 | 19.9 | 21.4 | 22.8 |
| | AUTOBRAKE 1 | 7.9 | 9.3 | 10.7 | 12.0 | 13.3 | 14.6 | 15.9 | 17.2 | 18.5 | 19.8 | 21.1 |

Two Engine Reverse

| | | REF | ERENCI | E BRAK | E ENEF | RGY PE | R BRAK | E (MIL | LIONS | OF FOC | T POU | NDS) |
|-------|-------------|------|--------|--------|--------|--------|--------|--------|-------|--------|-------|------|
| | EVENT | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| R' | TO MAX MAN | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 |
| | MAX MAN | 7.6 | 9.2 | 10.9 | 12.6 | 14.4 | 16.1 | 17.9 | 19.7 | 21.4 | 23.2 | 24.8 |
| Ð | MAX AUTO | 5.8 | 7.2 | 8.6 | 10.0 | 11.5 | 12.9 | 14.4 | 15.9 | 17.3 | 18.8 | 20.3 |
| NDING | AUTOBRAKE 4 | 4.5 | 5.7 | 6.8 | 8.0 | 9.1 | 10.3 | 11.5 | 12.7 | 14.0 | 15.2 | 16.5 |
| | AUTOBRAKE 3 | 3.3 | 4.2 | 5.1 | 5.9 | 6.9 | 7.8 | 8.7 | 9.7 | 10.7 | 11.7 | 12.7 |
| LA | AUTOBRAKE 2 | 2.3 | 2.9 | 3.5 | 4.1 | 4.8 | 5.5 | 6.2 | 6.9 | 7.6 | 8.3 | 9.0 |
| | AUTOBRAKE 1 | 1.7 | 2.1 | 2.4 | 2.8 | 3.2 | 3.6 | 4.0 | 4.5 | 4.9 | 5.4 | 5.9 |

Cooling Time (Minutes)

| | | ADJUSTE | ED BRA | KE EN | ERGY I | PER BR | AKE (| MILLIC | NS OF FOOT | POUNDS) |
|---|-----------------------|----------------------|--------|-------|--------|--------|-------|--------|------------|------------|
| | | 8 & BELOW | 9 | 10 | 12 | 14 | 16 | 17 | 18 TO 27 | 28 & ABOVE |
| Ī | INFLIGHT GEAR DOWN | NO SPECIAL PROCEDURE | 1 | 2 | 4 | 5 | 7 | 7 | CAUTION | FUSE PLUG |
| Ι | GROUND | REQUIRED | 10 | 20 | 38 | 51 | 62 | 66 | | MELT ZONE |
| Γ | BTMS | UP TO 2 | 2 | 2 | 3 | 3 | 4 | 5 | 5 TO 8 | 8 & ABOVE |

Observe maximum quick turnaround limit.

Table shows energy per brake added by a single stop with all brakes operating. Energy is assumed to be equally distributed among the operating brakes. Total energy is the sum of residual energy plus energy added

Add 0.65 million foot pounds per brake for each taxi mile.

For one brake deactivated, increase brake energy by 15 percent.

When in caution zone, wheel fuse plugs may melt. Delay takeoff and inspect after one hour. If overheat occurs after takeoff, extend gear soon for at least 8 minutes.

When in fuse plug melt zone, clear runway immediately. Unless required, do not set parking brake. Do not attempt to taxi for one hour. Tire, wheel and brake replacement may be required. If overheat occurs after takeoff, extend gear soon for at least 12 minutes.

Brake temperature monitor system (BTMS) indication on EICAS may be used to 10 to 15 minutes after airplane has come to a complete stop, or inflight with gear retracted, to determine recommended cooling schedule.

757 Flight Crew Operations Manual

Performance Inflight - QRH Engine Inoperative

Chapter PI-QRH Section 12

ENGINE INOP

Initial Max Continuous EPR Based on engine bleed for one pack on

| P | RESSURE | | CRUISE MACH NUMBER | - |
|-------|---------------|-----------|--------------------|-----------|
| ALT | TITUDE (FT) | .72 | .76 | .80 |
| | EPR | 1.81 | 1.80 | 1.79 |
| 41000 | MAX TAT (SAT) | -23 (-46) | -20 (-46) | -17 (-46) |
| | EPR CORR | 0.04 | 0.04 | 0.04 |
| | EPR | 1.81 | 1.80 | 1.79 |
| 39000 | MAX TAT (SAT) | -23 (-46) | -20 (-46) | -17 (-46) |
| | EPR CORR | 0.04 | 0.04 | 0.04 |
| | EPR | 1.82 | 1.80 | 1.79 |
| 37000 | MAX TAT (SAT) | -23 (-46) | -20 (-46) | -17 (-46) |
| | EPR CORR | 0.04 | 0.04 | 0.04 |
| | EPR | 1.81 | 1.80 | 1.79 |
| 35000 | MAX TAT (SAT) | -21 (-44) | -18 (-44) | -15 (-44) |
| | EPR CORR | 0.05 | 0.05 | 0.05 |
| | EPR | 1.80 | 1.79 | 1.78 |
| 33000 | MAX TAT (SAT) | -16 (-40) | -14 (-41) | -11 (-41) |
| | EPR CORR | 0.05 | 0.05 | 0.05 |
| | EPR | 1.79 | 1.78 | 1.77 |
| 31000 | MAX TAT (SAT) | -12 (-36) | -9 (-36) | -6 (-36) |
| | EPR CORR | 0.05 | 0.05 | 0.05 |

Decrease EPR by the EPR CORR for every 10°C above the MAX TAT shown.

757 Flight Crew Operations Manual

ENGINE INOP

Max Continuous EPR 41000 FT to 22000 FT Pressure Altitudes Based on engine bleed for one pack on and anti-ice off

| PRESSU | RE ALTITUDE | | | KIAS | | | | N | IACH N | IUMBE | R | |
|--------|-------------|------|------|------|------|------|------|------|--------|-------|------|-------|
| | (FT) | 180 | 200 | 220 | 240 | 260 | .70 | .72 | .74 | .76 | .78 | .80 |
| | EPR | | 1.82 | 1.81 | 1.79 | | 1.82 | 1.81 | 1.81 | 1.80 | 1.80 | 1.79 |
| 41000 | MAX TAT | | -25 | -21 | -17 | | -24 | -23 | -22 | -20 | -19 | -17 |
| | EPR CORR | | 0.04 | 0.04 | 0.04 | | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| | EPR | | 1.83 | 1.82 | 1.80 | 1.78 | 1.82 | 1.81 | 1.81 | 1.80 | 1.80 | -1.79 |
| 39000 | MAX TAT | | -27 | -23 | -19 | -15 | -24 | -23 | -22 | -20 | -19 | -17 |
| | EPR CORR | | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| | EPR | | 1.84 | 1.82 | 1.81 | 1.79 | 1.82 | 1.82 | 1.81 | 1.80 | 1.80 | 1.79 |
| 37000 | MAX TAT | | -29 | -25 | -21 | -17 | -24 | -23 | -22 | -20 | -19 | -17 |
| | EPR CORR | | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| | EPR | | 1.84 | 1.82 | 1.81 | 1.80 | 1.81 | 1.81 | 1.80 | 1.80 | 1.79 | 1.79 |
| 35000 | MAX TAT | | -28 | -24 | -21 | -17 | -22 | -21 | -19 | -18 | -16 | -15 |
| | EPR CORR | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | EPR | | 1.83 | 1.82 | 1.81 | 1.80 | 1.81 | 1.80 | 1.79 | 1.79 | 1.78 | 1.78 |
| 33000 | MAX TAT | | -25 | -22 | -19 | -15 | -18 | -16 | -15 | -14 | -12 | -11 |
| | EPR CORR | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | EPR | | 1.83 | 1.82 | 1.81 | 1.79 | 1.80 | 1.79 | 1.78 | 1.78 | 1.77 | 1.77 |
| 31000 | MAX TAT | | -22 | -19 | -16 | -13 | -13 | -12 | -10 | -9 | -8 | -6 |
| | EPR CORR | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | EPR | | 1.82 | 1.81 | 1.80 | 1.79 | 1.79 | 1.78 | 1.77 | 1.77 | 1.76 | 1.75 |
| 29000 | MAX TAT | | -19 | -16 | -13 | -10 | -9 | -7 | -6 | -5 | -3 | -2 |
| | EPR CORR | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | EPR | | 1.82 | 1.81 | 1.80 | 1.79 | 1.78 | 1.77 | 1.76 | 1.76 | 1.75 | 1.74 |
| 27000 | MAX TAT | | -16 | -13 | -11 | -8 | -5 | -3 | -2 | 0 | 1 | 3 |
| | EPR CORR | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | EPR | 1.82 | 1.81 | 1.80 | 1.80 | 1.79 | 1.77 | 1.76 | 1.75 | 1.75 | 1.74 | 1.73 |
| 25000 | MAX TAT | -15 | -13 | -10 | -8 | -5 | 0 | 1 | 3 | 4 | 6 | 7 |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| | EPR | 1.81 | 1.80 | 1.80 | 1.79 | 1.78 | 1.75 | 1.74 | 1.73 | 1.72 | 1.72 | |
| 22000 | MAX TAT | -10 | -8 | -6 | -3 | -1 | 6 | 8 | 9 | 11 | 12 | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | |

Decrease EPR by the EPR CORR for every 10°C above the MAX TAT shown.

EPR Adjustments for Engine Bleed

| BLEED | | PRESSUR | E ALTITUDE | (1000 FT) | |
|---------------------------|-------|---------|------------|-----------|-------|
| CONFIGURATION | 0 | 10 | 20 | 30 | 40 |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| ENGINE ANTI-ICE ON | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 |
| ENGINE & WING ANTI-ICE ON | -0.03 | -0.03 | -0.03 | -0.05 | -0.08 |

DO NOT USE FOR FLIGHT Performance Inflight - QRH Engine Inoperative

757 Flight Crew Operations Manual

ENGINE INOP

Max Continuous EPR 20000 FT to Sea Level Pressure Altitudes

Based on engine bleed for one pack on and anti-ice off

| PRESSU | RE ALTITUDE | | | KIAS | | | | N | IACH N | IUMBE | R | |
|--------|-------------|------|------|------|------|------|------|------|--------|-------|-----|-----|
| | (FT) | 180 | 200 | 220 | 240 | 260 | .70 | .72 | .74 | .76 | .78 | .80 |
| | EPR | 1.80 | 1.80 | 1.79 | 1.78 | 1.77 | 1.73 | 1.72 | 1.71 | 1.71 | | |
| 20000 | MAX TAT | -6 | -5 | -3 | 0 | 2 | 11 | 12 | 14 | 15 | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | |
| | EPR | 1.79 | 1.78 | 1.78 | 1.77 | 1.76 | 1.71 | 1.70 | 1.69 | | | |
| 18000 | MAX TAT | -3 | -1 | 1 | 3 | 5 | 15 | 17 | 18 | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | |
| | EPR | 1.78 | 1.77 | 1.76 | 1.75 | 1.74 | 1.69 | | | | | |
| 16000 | MAX TAT | 0 | 2 | 4 | 6 | 8 | 19 | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | |
| | EPR | 1.76 | 1.75 | 1.75 | 1.74 | 1.73 | | | | | | |
| 14000 | MAX TAT | 4 | 6 | 7 | 9 | 11 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |
| | EPR | 1.75 | 1.74 | 1.73 | 1.72 | 1.71 | | | | | | |
| 12000 | MAX TAT | 8 | 9 | 11 | 12 | 14 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |
| | EPR | 1.73 | 1.72 | 1.71 | 1.70 | 1.69 | | | | | | |
| 10000 | MAX TAT | 11 | 13 | 14 | 16 | 17 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |
| | EPR | 1.68 | 1.67 | 1.67 | 1.66 | 1.65 | | | | | | |
| 5000 | MAX TAT | 20 | 21 | 23 | 24 | 26 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |
| | EPR | 1.63 | 1.62 | 1.62 | 1.61 | 1.60 | | | | | | |
| 1500 | MAX TAT | 27 | 28 | 29 | 30 | 32 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |
| | EPR | 1.61 | 1.60 | 1.60 | 1.59 | 1.58 | | | | | | |
| 0 | MAX TAT | 29 | 30 | 32 | 33 | 34 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |

Decrease EPR by the EPR CORR for every 10°C above the MAX TAT shown.

EPR Adjustments for Engine Bleed

| BLEED | | PRESSURE ALTITUDE (1000 FT) | | | | | | | | | | |
|---------------------------|-------|-----------------------------|-------|-------|-------|--|--|--|--|--|--|--|
| CONFIGURATION | 0 | 10 | 20 | 30 | 40 | | | | | | | |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | |
| ENGINE ANTI-ICE ON | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 | | | | | | | |
| ENGINE & WING ANTI-ICE ON | -0.03 | -0.03 | -0.03 | -0.05 | -0.08 | | | | | | | |

ENGINE INOP

MAX CONTINUOUS THRUST

Driftdown Speed/Level Off Altitude 100 ft/min residual rate of climb Includes APU fuel burn

| WEIGHT | (1000 LB) | OPTIMUM | LEVI | EL OFF ALTITUDI | E (FT) |
|------------------------|--------------|------------------------------|-----------------------|-----------------|------------|
| START DRIFT DOWN | LEVEL OFF | DRIFTDOWN SPEED (KIAS) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 260 | 250 | 254 | 19300 | 18100 | 16600 |
| 240 | 231 | 245 | 21700 | 20700 | 19400 |
| 220 | 212 | 235 | 24000 | 23100 | 22100 |
| 200 | 193 | 224 | 26500 | 25700 | 24800 |
| 180 | 174 | 213 | 29100 | 28400 | 27600 |
| 160 | 154 | 201 | 32000 | 31300 | 30600 |
| 140 | 135 | 189 | 35300 | 34500 | 33800 |

Driftdown/LRC Cruise Range Capability **Ground to Air Miles Conversion**

| | AIR D | ISTANCE | (NM) | | GROUND | AIR DISTANCE (NM) | | | | | | |
|------|--------|---------|---------|------|----------|--------------------------|------|------|------|------|--|--|
| HE | ADWIND | COMPO | NENT (K | TS) | DISTANCE | TAILWIND COMPONENT (KTS) | | | | | | |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 | | |
| 278 | 258 | 240 | 225 | 212 | 200 | 189 | 180 | 171 | 163 | 156 | | |
| 557 | 516 | 481 | 451 | 424 | 400 | 379 | 360 | 342 | 327 | 312 | | |
| 831 | 771 | 720 | 675 | 635 | 600 | 568 | 540 | 514 | 491 | 470 | | |
| 1101 | 1024 | 957 | 898 | 846 | 800 | 758 | 721 | 687 | 656 | 628 | | |
| 1370 | 1276 | 1194 | 1121 | 1057 | 1000 | 949 | 902 | 860 | 822 | 787 | | |
| 1639 | 1527 | 1430 | 1344 | 1268 | 1200 | 1139 | 1084 | 1034 | 988 | 947 | | |
| 1908 | 1779 | 1666 | 1567 | 1479 | 1400 | 1329 | 1265 | 1207 | 1154 | 1106 | | |
| 2179 | 2032 | 1904 | 1790 | 1690 | 1600 | 1519 | 1446 | 1380 | 1319 | 1264 | | |
| 2454 | 2288 | 2143 | 2015 | 1901 | 1800 | 1709 | 1627 | 1552 | 1484 | 1421 | | |

Driftdown/Cruise Fuel and Time

| AIR | | F | UEL REQUII | RED (1000 LE | 3) | | TDAT |
|------|------|----------|------------|--------------|-------------|------|------------------|
| DIST | | WEIGHT A | T START OF | DRIFTDOW | N (1000 LB) | | TIME (HR:MIN) |
| (NM) | 160 | 180 | 200 | 220 | 240 | 260 | (IIIC.WIIN) |
| 200 | 2.8 | 3.1 | 3.4 | 3.7 | 3.9 | 4.2 | 0:34 |
| 400 | 6.2 | 6.8 | 7.5 | 8.1 | 8.8 | 9.5 | 1:08 |
| 600 | 9.3 | 10.3 | 11.3 | 12.3 | 13.3 | 14.4 | 1:40 |
| 800 | 12.3 | 13.6 | 14.9 | 16.3 | 17.7 | 19.1 | 2:11 |
| 1000 | 15.2 | 16.9 | 18.6 | 20.3 | 22.0 | 23.8 | 2:42 |
| 1200 | 18.2 | 20.2 | 22.2 | 24.2 | 26.3 | 28.4 | 3:13 |
| 1400 | 21.0 | 23.4 | 25.7 | 28.1 | 30.5 | 33.0 | 3:44 |
| 1600 | 23.8 | 26.5 | 29.2 | 31.9 | 34.6 | 37.4 | 4:15 |
| 1800 | 26.6 | 29.6 | 32.6 | 35.6 | 38.7 | 41.9 | 4:48 |

Includes APU fuel burn.

Driftdown at optimum driftdown speed and cruise at Long Range Cruise speed.

ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Altitude Capability 100 ft/min residual rate of climb

| WEIGHT | | PRESSURE ALTITUDE (FT) |) |
|-----------|-----------------------|------------------------|------------|
| (1000 LB) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 260 | 14600 | 11500 | 8300 |
| 250 | 16300 | 13700 | 10300 |
| 240 | 17900 | 15700 | 12500 |
| 230 | 19500 | 17500 | 14900 |
| 220 | 20900 | 19300 | 17000 |
| 210 | 22300 | 20900 | 19100 |
| 200 | 23700 | 22400 | 20900 |
| 190 | 25200 | 23900 | 22400 |
| 180 | 26600 | 25500 | 24100 |
| 170 | 28100 | 27000 | 25800 |
| 160 | 29600 | 28600 | 27400 |
| 150 | 31200 | 30300 | 29100 |
| 140 | 32900 | 32000 | 31000 |
| 130 | 34700 | 33800 | 32900 |
| 120 | 36600 | 35800 | 34800 |

With engine anti-ice on, decrease altitude capability by 1000 ft.

With engine and wing anti-ice on, decrease altitude capability by 3400 ft.

ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Control

| WE | EIGHT | | | P | RESSURE | ALTITUE | DE (1000 F | Т) | | |
|------|--------|------|------|------|---------|---------|------------|------|------|------|
| (100 | 00 LB) | 10 | 14 | 18 | 21 | 23 | 25 | 27 | 29 | 31 |
| | EPR | 1.57 | 1.65 | | | | | | | |
| 260 | MACH | .574 | .606 | | | | | | | |
| 260 | KIAS | 319 | 313 | | | | | | | |
| | FF/ENG | 9867 | 9808 | | | | | | | |
| | EPR | 1.54 | 1.61 | 1.70 | | | | | | |
| 240 | MACH | .557 | .590 | .623 | | | | | | |
| 240 | KIAS | 309 | 304 | 298 | | | | | | |
| | FF/ENG | 9127 | 9040 | 9034 | | | | | | |
| | EPR | 1.50 | 1.57 | 1.65 | 1.72 | | | | | |
| 220 | MACH | .539 | .572 | .605 | .632 | | | | | |
| 220 | KIAS | 299 | 295 | 289 | 285 | | | | | |
| | FF/ENG | 8411 | 8292 | 8244 | 8273 | | | | | |
| | EPR | 1.47 | 1.53 | 1.61 | 1.67 | 1.72 | 1.77 | | | |
| 200 | MACH | .519 | .552 | .586 | .611 | .629 | .650 | | | |
| 200 | KIAS | 288 | 284 | 279 | 275 | 272 | 270 | | | |
| | FF/ENG | 7710 | 7557 | 7483 | 7466 | 7487 | 7555 | | | |
| | EPR | 1.43 | 1.49 | 1.56 | 1.62 | 1.67 | 1.71 | 1.76 | | |
| 180 | MACH | .497 | .530 | .564 | .590 | .607 | .625 | .646 | | |
| 180 | KIAS | 275 | 272 | 269 | 265 | 262 | 259 | 257 | | |
| | FF/ENG | 7015 | 6856 | 6744 | 6702 | 6692 | 6702 | 6773 | | |
| | EPR | 1.40 | 1.45 | 1.51 | 1.57 | 1.61 | 1.66 | 1.70 | 1.75 | 1.80 |
| 160 | MACH | .474 | .505 | .539 | .566 | .583 | .601 | .619 | .639 | .661 |
| 100 | KIAS | 262 | 260 | 257 | 254 | 251 | 249 | 246 | 244 | 242 |
| | FF/ENG | 6347 | 6161 | 6030 | 5964 | 5936 | 5922 | 5925 | 5984 | 6108 |
| | EPR | 1.36 | 1.41 | 1.47 | 1.51 | 1.55 | 1.59 | 1.64 | 1.68 | 1.73 |
| 140 | MACH | .448 | .479 | .511 | .538 | .555 | .573 | .591 | .610 | .629 |
| 140 | KIAS | 247 | 246 | 243 | 241 | 239 | 237 | 234 | 232 | 229 |
| | FF/ENG | 5655 | 5491 | 5339 | 5253 | 5207 | 5177 | 5159 | 5155 | 5193 |
| | EPR | 1.31 | 1.36 | 1.41 | 1.46 | 1.49 | 1.53 | 1.57 | 1.61 | 1.66 |
| 120 | MACH | .413 | .448 | .481 | .505 | .523 | .541 | .560 | .578 | .597 |
| 120 | KIAS | 228 | 230 | 228 | 226 | 224 | 223 | 221 | 219 | 217 |
| | FF/ENG | 4875 | 4811 | 4668 | 4565 | 4513 | 4463 | 4428 | 4406 | 4394 |

ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Diversion Fuel and Time Ground to Air Miles Conversion

| | AIR D | ISTANCE | (NM) | | GROUND | | AIR D | ISTANCE | E (NM) | | | |
|------|--------|---------|---------|------|----------|--------------------------|-------|---------|--------|------|--|--|
| HE | ADWIND | COMPO | NENT (K | TS) | DISTANCE | TAILWIND COMPONENT (KTS) | | | | | | |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 | | |
| 288 | 265 | 245 | 228 | 213 | 200 | 190 | 181 | 173 | 166 | 159 | | |
| 576 | 531 | 490 | 456 | 427 | 400 | 381 | 363 | 347 | 332 | 319 | | |
| 866 | 797 | 736 | 684 | 640 | 600 | 572 | 545 | 521 | 499 | 479 | | |
| 1156 | 1064 | 982 | 913 | 853 | 800 | 762 | 726 | 694 | 665 | 639 | | |
| 1448 | 1332 | 1229 | 1142 | 1067 | 1000 | 952 | 909 | 868 | 832 | 799 | | |
| 1741 | 1601 | 1477 | 1372 | 1281 | 1200 | 1143 | 1090 | 1041 | 997 | 958 | | |
| 2036 | 1871 | 1725 | 1602 | 1495 | 1400 | 1333 | 1271 | 1214 | 1163 | 1117 | | |
| 2332 | 2142 | 1974 | 1832 | 1709 | 1600 | 1523 | 1452 | 1387 | 1329 | 1276 | | |
| 2630 | 2414 | 2223 | 2062 | 1924 | 1800 | 1713 | 1633 | 1560 | 1494 | 1434 | | |

Reference Fuel and Time Required at Check Point

| A ID | | | | PRESS | URE ALT | ITUDE (10 | 00 FT) | | | | | | |
|-------------|-------------------|------|-------------------|------------------|-------------------|-----------|-------------------|------|-------------------|-----------------|--|--|--|
| AIR DIST | 1 | 0 | 1 | 4 | 1 | 8 | 2 | 2 | 28 | | | | |
| (NM) | FUEL (1000 LB) | TIME | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME | FUEL (1000 LB) | TIME | FUEL (1000 LB) | TIME (HR:MIN | | | |
| | () | | (, | | , | | | | . , | \ | | | |
| 200 | 4.5 | 0:41 | 3.9 | 0:40 | 3.5 | 0:39 | 3.2 | 0:38 | 2.8 | 0:36 | | | |
| 400 | 9.2 | 1:18 | 8.3 | 1:15 | 7.7 | 1:12 | 7.2 | 1:10 | 6.7 | 1:06 | | | |
| 600 | 13.9 | 1:55 | 12.7 | 1:50 | 11.8 | 1:46 | 11.1 | 1:42 | 10.5 | 1:36 | | | |
| 800 | 18.5 | 2:32 | 17.0 | 2:26 | 15.9 | 2:20 | 15.0 | 2:14 | 14.2 | 2:06 | | | |
| 1000 | 23.0 | 3:10 | 21.2 | 3:02 | 19.9 | 2:54 | 18.8 | 2:47 | 17.8 | 2:37 | | | |
| 1200 | 27.5 | 3:48 | 25.4 | 3:38 | 23.8 | 3:28 | 22.5 | 3:20 | 21.4 | 3:07 | | | |
| 1400 | 32.0 | 4:27 | 29.6 | 4:14 | 27.7 | 4:03 | 26.3 | 3:53 | 24.9 | 3:38 | | | |
| 1600 | 36.4 | 5:06 | 33.7 | 4:51 | 31.6 | 4:38 | 29.9 | 4:27 | 28.4 | 4:09 | | | |
| 1800 | 40.7 | 5:45 | 37.8 | 5:29 | 35.4 | 5:13 | 33.5 | 5:00 | 31.8 | 4:41 | | | |

Fuel Required Adjustment (1000 LB)

| REFERENCE FUEL REQUIRED | | WEIGH | T AT CHEC | K POINT (10 | 000 LB) | |
|-------------------------|------|-------|-----------|-------------|---------|------|
| (1000 LB) | 160 | 180 | 200 | 220 | 240 | 260 |
| 5 | -0.4 | -0.2 | 0.0 | 0.3 | 0.6 | 1.0 |
| 10 | -0.8 | -0.4 | 0.0 | 0.8 | 1.5 | 2.2 |
| 15 | -1.3 | -0.7 | 0.0 | 1.2 | 2.3 | 3.5 |
| 20 | -1.7 | -0.9 | 0.0 | 1.6 | 3.2 | 4.8 |
| 25 | -2.2 | -1.1 | 0.0 | 2.1 | 4.1 | 6.1 |
| 30 | -2.7 | -1.3 | 0.0 | 2.5 | 4.9 | 7.3 |
| 35 | -3.1 | -1.6 | 0.0 | 2.9 | 5.8 | 8.6 |
| 40 | -3.6 | -1.8 | 0.0 | 3.3 | 6.7 | 9.9 |
| 45 | -4.1 | -2.0 | 0.0 | 3.8 | 7.6 | 11.3 |

Includes APU fuel burn.

ENGINE INOP

MAX CONTINUOUS THRUST

Holding Flaps Up

| W | EIGHT | | | PRESSU | JRE ALTITU | DE (FT) | | |
|-----|---------|------|------|--------|------------|---------|-------|-------|
| (10 | 000 LB) | 1500 | 5000 | 10000 | 15000 | 20000 | 25000 | 30000 |
| | EPR | 1.39 | 1.45 | 1.54 | 1.65 | | | |
| 260 | KIAS | 235 | 235 | 235 | 235 | | | |
| | FF/ENG | 8720 | 8640 | 8590 | 8710 | | | |
| | EPR | 1.37 | 1.41 | 1.50 | 1.60 | 1.73 | | |
| 240 | KIAS | 228 | 228 | 228 | 228 | 228 | | |
| | FF/ENG | 8070 | 7970 | 7890 | 7930 | 8170 | | |
| | EPR | 1.34 | 1.38 | 1.46 | 1.55 | 1.67 | | |
| 220 | KIAS | 220 | 220 | 220 | 220 | 220 | | |
| | FF/ENG | 7420 | 7320 | 7220 | 7200 | 7330 | | |
| | EPR | 1.31 | 1.35 | 1.42 | 1.51 | 1.61 | 1.75 | |
| 200 | KIAS | 213 | 213 | 213 | 213 | 213 | 213 | |
| | FF/ENG | 6770 | 6680 | 6570 | 6510 | 6550 | 6790 | |
| | EPR | 1.28 | 1.32 | 1.38 | 1.46 | 1.56 | 1.68 | |
| 180 | KIAS | 205 | 205 | 205 | 205 | 205 | 205 | |
| | FF/ENG | 6130 | 6050 | 5940 | 5850 | 5830 | 5950 | |
| | EPR | 1.25 | 1.28 | 1.34 | 1.41 | 1.50 | 1.61 | 1.75 |
| 160 | KIAS | 197 | 197 | 197 | 197 | 197 | 197 | 197 |
| | FF/ENG | 5490 | 5430 | 5320 | 5220 | 5160 | 5190 | 5420 |
| | EPR | 1.22 | 1.25 | 1.30 | 1.36 | 1.44 | 1.54 | 1.66 |
| 140 | KIAS | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 4870 | 4800 | 4710 | 4620 | 4540 | 4510 | 4580 |
| | EPR | 1.19 | 1.22 | 1.26 | 1.32 | 1.39 | 1.47 | 1.58 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 4250 | 4190 | 4110 | 4030 | 3940 | 3880 | 3870 |

This table includes 5% additional fuel for holding in a racetrack pattern.

757 Flight Crew Operations Manual

Performance Inflight - QRH Gear Down Chapter PI-QRH Section 13

GEAR DOWN

210 KIAS Max Climb EPR

Based on engine bleed for packs on and anti-ice off

| | | | | | | DECC | IIDE A | T TOTAL | DE (1) | 000 ET | | | | | |
|------|------|------|------|------|------|------|--------|---------|--------|--------|------|------|------|------|------|
| TAT | | | | | | | | LTITU | | - | | | | | |
| (°C) | 0 | 5 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| 55 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.42 | 1.42 | 1.42 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 |
| 50 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 |
| 45 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 1.47 | 1.47 | 1.47 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 |
| 40 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 |
| 35 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.52 | 1.52 | 1.52 | 1.51 | 1.51 | 1.51 | 1.51 | 1.52 | 1.52 |
| 30 | 1.55 | 1.56 | 1.55 | 1.55 | 1.56 | 1.55 | 1.55 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 |
| 25 | 1.55 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 |
| 20 | 1.55 | 1.60 | 1.61 | 1.61 | 1.61 | 1.61 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.61 |
| 15 | 1.55 | 1.60 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.64 | 1.64 |
| 10 | 1.55 | 1.60 | 1.65 | 1.67 | 1.68 | 1.67 | 1.67 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.67 | 1.67 |
| 5 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.70 | 1.70 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.70 | 1.70 |
| 0 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.73 |
| -5 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.75 | 1.74 | 1.74 | 1.75 | 1.75 | 1.75 | 1.75 |
| -10 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.76 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 |
| -15 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.76 | 1.77 | 1.78 | 1.79 | 1.79 | 1.79 | 1.79 |
| -20 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.76 | 1.77 | 1.78 | 1.79 | 1.80 | 1.81 | 1.81 |
| -25 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.76 | 1.77 | 1.78 | 1.79 | 1.80 | 1.82 | 1.83 |
| -30 | 1.55 | 1.60 | 1.65 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.76 | 1.77 | 1.78 | 1.79 | 1.80 | 1.82 | 1.83 |

EPR Adjustments for Engine Bleeds

| BLEED | | PRESSURE ALTITUDE (1000 FT) | | | | | | | | | | |
|---------------------------|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CONFIGURATION | 0 | 5 | 10 | 12 | 16 | 20 | 24 | 26 | 28 | 30 | 32 | 34 |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| ENGINE ANTI-ICE ON | 0.00 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.02 |
| ENGINE & WING ANTI-ICE ON | -0.01 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.03 | -0.03 | -0.03 | -0.03 | -0.04 |

Long Range Cruise Altitude Capability

| WEIGHT | | PRESSURE ALTITUDE (FT) | 1 |
|-----------|-----------------------|------------------------|------------|
| (1000 LB) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 260 | 19800 | 16700 | 13700 |
| 250 | 21400 | 18700 | 15800 |
| 240 | 23100 | 20600 | 17700 |
| 230 | 24800 | 22600 | 19600 |
| 220 | 26500 | 24400 | 21800 |
| 210 | 28200 | 26300 | 23900 |
| 200 | 29800 | 28200 | 26100 |
| 190 | 31200 | 29900 | 28200 |
| 180 | 32700 | 31500 | 30000 |
| 170 | 34100 | 33100 | 31700 |
| 160 | 35600 | 34700 | 33500 |
| 150 | 36800 | 36100 | 35200 |
| 140 | 37900 | 37300 | 36600 |
| 130 | 39200 | 38500 | 37800 |
| 120 | 40500 | 39700 | 39000 |

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757 Flight Crew Operations Manual

GEAR DOWN

Long Range Cruise Control

| WE | IGHT | | | | PRE | SSURE A | ALTITU | DE (1000 | FT) | | | |
|------|--------|------|------|------|------|---------|--------|----------|------|------|------|------|
| (100 | 00 LB) | 10 | 14 | 18 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 |
| | EPR | 1.47 | 1.54 | 1.62 | | | | | | | | |
| 260 | MACH | .455 | .485 | .515 | | | | | | | | |
| 260 | KIAS | 254 | 251 | 247 | | | | | | | | |
| | FF/ENG | 7405 | 7267 | 7158 | | | | | | | | |
| | EPR | 1.44 | 1.51 | 1.58 | 1.64 | 1.69 | | | | | | |
| 240 | MACH | .440 | .470 | .500 | .524 | .540 | | | | | | |
| 240 | KIAS | 246 | 243 | 240 | 237 | 234 | | | | | | |
| | FF/ENG | 6877 | 6730 | 6607 | 6555 | 6541 | | | | | | |
| | EPR | 1.41 | 1.47 | 1.54 | 1.60 | 1.64 | 1.69 | | | | | |
| 220 | MACH | .424 | .453 | .484 | .508 | .524 | .540 | | | | | |
| 220 | KIAS | 236 | 234 | 232 | 229 | 227 | 225 | | | | | |
| | FF/ENG | 6331 | 6190 | 6074 | 6002 | 5968 | 5955 | | | | | |
| | EPR | 1.38 | 1.44 | 1.50 | 1.56 | 1.60 | 1.64 | 1.69 | 1.74 | | | |
| 200 | MACH | .406 | .436 | .466 | .490 | .506 | .522 | .539 | .556 | | | |
| 200 | KIAS | 226 | 225 | 223 | 221 | 219 | 217 | 215 | 213 | | | |
| | FF/ENG | 5780 | 5673 | 5543 | 5460 | 5420 | 5383 | 5377 | 5408 | | | |
| | EPR | 1.34 | 1.40 | 1.46 | 1.51 | 1.55 | 1.59 | 1.63 | 1.68 | 1.73 | | |
| 180 | MACH | .384 | .416 | .446 | .470 | .486 | .502 | .519 | .537 | .560 | | |
| 100 | KIAS | 214 | 215 | 213 | 212 | 210 | 208 | 207 | 205 | 205 | | |
| | FF/ENG | 5205 | 5128 | 5015 | 4937 | 4888 | 4843 | 4816 | 4815 | 4908 | | |
| | EPR | 1.31 | 1.36 | 1.42 | 1.46 | 1.50 | 1.54 | 1.58 | 1.62 | 1.67 | 1.73 | 1.79 |
| 160 | MACH | .363 | .393 | .424 | .448 | .464 | .480 | .496 | .516 | .539 | .562 | .587 |
| 100 | KIAS | 202 | 202 | 202 | 201 | 200 | 199 | 197 | 197 | 197 | 197 | 197 |
| | FF/ENG | 4640 | 4573 | 4490 | 4414 | 4366 | 4315 | 4277 | 4282 | 4320 | 4409 | 4528 |
| | EPR | 1.27 | 1.32 | 1.37 | 1.41 | 1.45 | 1.48 | 1.52 | 1.57 | 1.61 | 1.66 | 1.72 |
| 140 | MACH | .341 | .367 | .398 | .423 | .439 | .456 | .475 | .495 | .517 | .539 | .563 |
| 140 | KIAS | 189 | 189 | 190 | 190 | 189 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 4080 | 4007 | 3950 | 3894 | 3854 | 3811 | 3796 | 3792 | 3802 | 3841 | 3911 |
| | EPR | 1.24 | 1.28 | 1.33 | 1.37 | 1.40 | 1.43 | 1.47 | 1.51 | 1.55 | 1.60 | 1.65 |
| 120 | MACH | .323 | .349 | .377 | .400 | .417 | .434 | .453 | .472 | .493 | .514 | .537 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 3613 | 3558 | 3605 | 3440 | 3405 | 3425 | 3401 | 3384 | 3325 | 3339 | 3365 |

DO NOT USE FOR FLIGHT Performance Inflight - QRH Gear Down

757 Flight Crew Operations Manual

GEAR DOWN

Long Range Cruise Enroute Fuel and Time Ground to Air Miles Conversion

| | AIR D | ISTANCE | (NM) | | GROUND | | AIR D | ISTANCE | E (NM) | | |
|------|--------|---------|---------|------|----------|--------------------------|-------|---------|--------|------|--|
| HE. | ADWIND | COMPO | NENT (K | TS) | DISTANCE | TAILWIND COMPONENT (KTS) | | | | | |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 | |
| 327 | 292 | 261 | 237 | 217 | 200 | 188 | 178 | 168 | 160 | 152 | |
| 659 | 586 | 524 | 475 | 435 | 400 | 377 | 356 | 337 | 319 | 304 | |
| 998 | 886 | 791 | 715 | 654 | 600 | 565 | 533 | 504 | 478 | 456 | |
| 1342 | 1189 | 1059 | 956 | 873 | 800 | 753 | 711 | 672 | 638 | 608 | |
| 1692 | 1496 | 1329 | 1198 | 1092 | 1000 | 941 | 888 | 840 | 797 | 759 | |
| 2048 | 1807 | 1602 | 1442 | 1312 | 1200 | 1129 | 1064 | 1006 | 954 | 909 | |
| 2411 | 2123 | 1877 | 1686 | 1533 | 1400 | 1317 | 1241 | 1173 | 1112 | 1059 | |
| 2781 | 2443 | 2155 | 1933 | 1754 | 1600 | 1504 | 1417 | 1339 | 1270 | 1209 | |
| 3157 | 2766 | 2435 | 2180 | 1976 | 1800 | 1692 | 1593 | 1505 | 1427 | 1358 | |

Reference Fuel and Time Required at Check Point

| A ID | | | | PRESS | URE ALT | ITUDE (10 | 00 FT) | | | |
|-------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-----------------|
| AIR DIST | 10 | | 1 | 4 | 1 | 8 | 2 | 2 | 28 | |
| (NM) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN |
| 200 | 8.4 | 0:51 | 7.6 | 0:49 | 6.8 | 0:47 | 6.2 | 0:45 | 5.4 | 0:43 |
| 400 | 17.1 | 1:39 | 15.6 | 1:34 | 14.3 | 1:29 | 13.2 | 1:26 | 11.9 | 1:21 |
| 600 | 25.5 | 2:28 | 23.5 | 2:20 | 21.6 | 2:13 | 20.0 | 2:07 | 18.1 | 1:59 |
| 800 | 33.8 | 3:18 | 31.2 | 3:06 | 28.8 | 2:57 | 26.7 | 2:48 | 24.3 | 2:37 |
| 1000 | 41.9 | 4:10 | 38.7 | 3:54 | 35.8 | 3:41 | 33.3 | 3:30 | 30.3 | 3:16 |
| 1200 | 49.8 | 5:02 | 46.1 | 4:43 | 42.7 | 4:27 | 39.7 | 4:13 | 36.1 | 3:56 |
| 1400 | 57.5 | 5:56 | 53.3 | 5:33 | 49.4 | 5:13 | 46.0 | 4:57 | 41.8 | 4:36 |
| 1600 | 65.0 | 6:52 | 60.3 | 6:25 | 56.0 | 6:01 | 52.1 | 5:41 | 47.5 | 5:16 |
| 1800 | 72.3 | 7:48 | 67.2 | 7:17 | 62.5 | 6:50 | 58.2 | 6:26 | 52.9 | 5:57 |

Fuel Required Adjustment (1000 LB)

| REFERENCE FUEL REQUIRED | WEIGHT AT CHECK POINT (1000 LB) | | | | | | | | |
|-------------------------|---------------------------------|------|-----|-----|-----|------|--|--|--|
| (1000 LB) | 160 | 180 | 200 | 220 | 240 | 260 | | | |
| 10 | -1.0 | -0.5 | 0.0 | 0.7 | 1.4 | 2.2 | | | |
| 20 | -2.0 | -1.0 | 0.0 | 1.5 | 3.0 | 4.6 | | | |
| 30 | -3.1 | -1.5 | 0.0 | 2.2 | 4.5 | 6.9 | | | |
| 40 | -4.3 | -2.1 | 0.0 | 2.9 | 5.9 | 9.1 | | | |
| 50 | -5.4 | -2.6 | 0.0 | 3.5 | 7.3 | 11.2 | | | |
| 60 | -6.5 | -3.2 | 0.0 | 4.2 | 8.6 | 13.2 | | | |
| 70 | -7.6 | -3.8 | 0.0 | 4.7 | 9.8 | 15.1 | | | |

Descent at VREF30 + 80

| PRESSURE ALT (1000 FT) | 5 | 10 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 |
|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DISTANCE (NM) | 12 | 21 | 30 | 34 | 38 | 41 | 45 | 49 | 53 | 57 | 61 | 65 | 69 |
| TIME (MINUTES) | 7 | 9 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 18 |

¹ DO NOT USE FOR FLIGHT

757 Flight Crew Operations Manual

GEAR DOWN

Holding Flaps Up

| W | EIGHT | | | PRESSU | JRE ALTITU | DE (FT) | | |
|-----|---------|------|------|--------|------------|---------|-------|-------|
| (10 | 000 LB) | 1500 | 5000 | 10000 | 15000 | 20000 | 25000 | 30000 |
| | EPR | 1.33 | 1.37 | 1.45 | 1.54 | 1.64 | | |
| 260 | KIAS | 235 | 235 | 235 | 235 | 235 | | |
| | FF/ENG | 7390 | 7280 | 7150 | 7090 | 7150 | | |
| | EPR | 1.31 | 1.35 | 1.42 | 1.50 | 1.60 | | |
| 240 | KIAS | 228 | 228 | 228 | 228 | 228 | | |
| | FF/ENG | 6880 | 6780 | 6640 | 6560 | 6570 | | |
| | EPR | 1.29 | 1.32 | 1.39 | 1.47 | 1.56 | 1.68 | |
| 220 | KIAS | 220 | 220 | 220 | 220 | 220 | 220 | |
| | FF/ENG | 6370 | 6290 | 6150 | 6050 | 6020 | 6110 | |
| | EPR | 1.26 | 1.30 | 1.36 | 1.43 | 1.52 | 1.63 | |
| 200 | KIAS | 213 | 213 | 213 | 213 | 213 | 213 | |
| | FF/ENG | 5870 | 5800 | 5670 | 5560 | 5490 | 5520 | |
| | EPR | 1.24 | 1.27 | 1.33 | 1.40 | 1.48 | 1.58 | 1.71 |
| 180 | KIAS | 205 | 205 | 205 | 205 | 205 | 205 | 205 |
| | FF/ENG | 5380 | 5310 | 5200 | 5080 | 5000 | 4980 | 5100 |
| | EPR | 1.22 | 1.25 | 1.30 | 1.36 | 1.44 | 1.53 | 1.65 |
| 160 | KIAS | 197 | 197 | 197 | 197 | 197 | 197 | 197 |
| | FF/ENG | 4900 | 4830 | 4730 | 4630 | 4530 | 4480 | 4510 |
| | EPR | 1.20 | 1.23 | 1.27 | 1.33 | 1.40 | 1.48 | 1.59 |
| 140 | KIAS | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 4420 | 4350 | 4260 | 4180 | 4070 | 4000 | 3980 |
| | EPR | 1.18 | 1.20 | 1.24 | 1.29 | 1.35 | 1.43 | 1.53 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 4270 | 3880 | 3790 | 3720 | 3630 | 3600 | 3550 |

This table includes 5% additional fuel for holding in a racetrack pattern.

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MAX CONTINUOUS THRUST

Driftdown Speed/Level Off Altitude 100 ft/min residual rate of climb Includes APU fuel burn

| WEIGHT | (1000 LB) | OPTIMUM | LEVI | EL OFF ALTITUDE | E (FT) |
|------------------------|--------------|------------------------------|-----------------------|-----------------|------------|
| START DRIFT DOWN | LEVEL OFF | DRIFTDOWN SPEED (KIAS) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 240 | 226 | 225 | 3300 | | |
| 220 | 208 | 218 | 7000 | 4900 | 2300 |
| 200 | 190 | 210 | 10500 | 8800 | 6600 |
| 180 | 171 | 203 | 14100 | 12700 | 10800 |
| 160 | 152 | 195 | 17400 | 16300 | 15000 |
| 140 | 134 | 187 | 20700 | 19900 | 18900 |

Long Range Cruise Altitude Capability 100 ft/min residual rate of climb

| WEIGHT | | PRESSURE ALTITUDE (FT |) |
|-----------|---------------------|-----------------------|----------|
| (1000 LB) | ISA+10°C & BELOW | ISA+15°C | ISA+20°C |
| 210 | 5700 | 2100 | |
| 200 | 8100 | 5400 | 1300 |
| 190 | 10600 | 8100 | 5200 |
| 180 | 12400 | 10700 | 8100 |
| 170 | 14400 | 12800 | 10900 |
| 160 | 16200 | 14900 | 13200 |
| 150 | 17900 | 16800 | 15400 |
| 140 | 19700 | 18700 | 17500 |
| 130 | 21500 | 20600 | 19600 |
| 120 | 23200 | 22500 | 21500 |

GEAR DOWN ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Control

| | | 1 | | DDEC | CLIDE ALT | ITLIDE (100 | A PT | | |
|------|--------|-------|-------|-------|-----------|-------------|------|------|------|
| | EIGHT | | | | SURE ALT | | | | |
| (100 | 00 LB) | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| | EPR | 1.62 | 1.66 | 1.70 | | | | | |
| 200 | MACH | .363 | .374 | .383 | | | | | |
| 200 | KIAS | 217 | 216 | 213 | | | | | |
| | FF/ENG | 10785 | 10750 | 10700 | | | | | |
| | EPR | 1.56 | 1.60 | 1.65 | 1.69 | 1.75 | | | |
| 180 | MACH | .348 | .359 | .370 | .383 | .398 | | | |
| 100 | KIAS | 208 | 207 | 206 | 205 | 205 | | | |
| | FF/ENG | 9711 | 9658 | 9610 | 9656 | 9795 | | | |
| | EPR | 1.51 | 1.55 | 1.59 | 1.63 | 1.68 | 1.73 | | |
| 160 | MACH | .333 | .343 | .354 | .368 | .382 | .397 | | |
| 100 | KIAS | 199 | 198 | 197 | 197 | 197 | 197 | | |
| | FF/ENG | 8698 | 8611 | 8561 | 8594 | 8661 | 8774 | | |
| | EPR | 1.46 | 1.49 | 1.53 | 1.57 | 1.62 | 1.66 | 1.72 | 1.77 |
| 140 | MACH | .315 | .327 | .339 | .352 | .366 | .380 | .396 | .412 |
| 140 | KIAS | 188 | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 7680 | 7644 | 7621 | 7617 | 7635 | 7683 | 7769 | 7906 |
| | EPR | 1.41 | 1.44 | 1.47 | 1.51 | 1.55 | 1.59 | 1.64 | 1.69 |
| 120 | MACH | .300 | .311 | .323 | .335 | .349 | .362 | .377 | .392 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 6808 | 6763 | 6724 | 6700 | 6685 | 6689 | 6719 | 6777 |

GEAR DOWN ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Diversion Fuel and Time **Ground to Air Miles Conversion**

| | AIR D | ISTANCE | (NM) | | GROUND | AIR DISTANCE (NM) | | | | | |
|------|--------|---------|---------|-----|----------|-------------------|-----|-----|-----|-------|--|
| HE | ADWIND | COMPO | NENT (K | TS) | DISTANCE | | | | | (KTS) | |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 | |
| 171 | 151 | 133 | 120 | 109 | 100 | 94 | 88 | 82 | 78 | 74 | |
| 346 | 304 | 268 | 241 | 219 | 200 | 187 | 174 | 164 | 155 | 147 | |
| 523 | 459 | 405 | 362 | 329 | 300 | 280 | 262 | 246 | 232 | 220 | |
| 702 | 615 | 541 | 484 | 439 | 400 | 373 | 349 | 328 | 309 | 293 | |
| 881 | 771 | 677 | 606 | 549 | 500 | 466 | 436 | 409 | 386 | 366 | |
| 1062 | 928 | 815 | 728 | 659 | 600 | 560 | 524 | 491 | 463 | 439 | |
| 1245 | 1087 | 954 | 851 | 770 | 700 | 653 | 610 | 573 | 540 | 511 | |
| 1429 | 1246 | 1091 | 974 | 880 | 800 | 746 | 697 | 654 | 616 | 583 | |

Reference Fuel and Time Required at Check Point

| A ID | | | PRE | SSURE ALT | TUDE (1000 | FT) | | | |
|-------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|--|
| AIR DIST | (| 5 | 1 | 0 | 1 | 4 | 18 | | |
| (NM) | FUEL (1000 LB) | TIME (HR:MIN) | |
| 100 | 4.4 | 0:29 | 4.0 | 0:28 | 3.6 | 0:27 | 3.3 | 0:26 | |
| 200 | 9.0 | 0:55 | 8.3 | 0:53 | 7.8 | 0:51 | 7.5 | 0:48 | |
| 300 | 13.6 | 1:21 | 12.6 | 1:18 | 12.0 | 1:14 | 11.6 | 1:11 | |
| 400 | 18.0 | 1:48 | 16.9 | 1:43 | 16.1 | 1:38 | 15.6 | 1:33 | |
| 500 | 22.5 | 2:14 | 21.0 | 2:09 | 20.1 | 2:02 | 19.6 | 1:55 | |
| 600 | 26.8 | 2:41 | 25.2 | 2:34 | 24.0 | 2:26 | 23.5 | 2:18 | |
| 700 | 31.1 | 3:08 | 29.2 | 3:00 | 27.9 | 2:50 | 27.3 | 2:41 | |
| 800 | 35.4 | 3:36 | 33.2 | 3:26 | 31.8 | 3:15 | 31.0 | 3:04 | |

Fuel Required Adjustment (1000 LB)

| REFERENCE FUEL REQUIRED | WEIGHT AT CHECK POINT (1000 LB) | | | | | |
|-------------------------|---------------------------------|------|-----|-----|-----|-----|
| (1000 LB) | 160 | 180 | 200 | 220 | 240 | 260 |
| 5 | -0.5 | -0.3 | 0.0 | 0.3 | 0.7 | 1.0 |
| 10 | -1.0 | -0.5 | 0.0 | 0.8 | 1.5 | 2.3 |
| 15 | -1.6 | -0.8 | 0.0 | 1.2 | 2.4 | 3.5 |
| 20 | -2.1 | -1.1 | 0.0 | 1.6 | 3.2 | 4.7 |
| 25 | -2.7 | -1.4 | 0.0 | 2.0 | 4.0 | 6.0 |
| 30 | -3.2 | -1.6 | 0.0 | 2.5 | 4.9 | 7.3 |
| 35 | -3.7 | -1.9 | 0.0 | 2.9 | 5.7 | 8.5 |

Includes APU fuel burn.

GEAR DOWN ENGINE INOP

MAX CONTINUOUS THRUST

Holding Flaps Up

| WEIGHT (1000 LB) | | PRESSURE ALTITUDE (FT) | | | | | |
|---------------------|--------|------------------------|-------|-------|-------|--|--|
| | | 1500 5000 | | 10000 | 15000 | | |
| | EPR | 1.60 | | | | | |
| 240 | KIAS | 228 | | | | | |
| | FF/ENG | 13170 | | | | | |
| | EPR | 1.56 | 1.63 | | | | |
| 220 | KIAS | 220 | 220 | | | | |
| | FF/ENG | 12070 | 12120 | | | | |
| | EPR | 1.52 | 1.58 | 1.70 | | | |
| 200 | KIAS | 213 | 213 | 213 | | | |
| | FF/ENG | 11030 | 11020 | 11200 | | | |
| | EPR | 1.47 | 1.54 | 1.64 | | | |
| 180 | KIAS | 205 | 205 | 205 | | | |
| | FF/ENG | 10050 | 10000 | 10050 | | | |
| | EPR | 1.43 | 1.49 | 1.59 | 1.71 | | |
| 160 | KIAS | 197 | 197 | 197 | 197 | | |
| | FF/ENG | 9100 | 9020 | 8990 | 9150 | | |
| | EPR | 1.39 | 1.44 | 1.53 | 1.64 | | |
| 140 | KIAS | 188 | 188 | 188 | 188 | | |
| | FF/ENG | 8190 | 8090 | 8000 | 8040 | | |
| 120 | EPR | 1.34 | 1.39 | 1.47 | 1.57 | | |
| | KIAS | 179 | 179 | 179 | 179 | | |
| | FF/ENG | 7280 | 7180 | 7060 | 7020 | | |

This table includes 5% additional fuel for holding in a racetrack pattern.

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Introduction

This chapter contains information to supplement performance data from the Flight Management Computer (FMC). In addition, sufficient inflight data is provided to complete a flight with the FMC inoperative. In the event of conflict between data presented in this chapter and that contained in the approved Airplane Flight Manual, the Flight Manual shall always take precedence.

General

Flight with Unreliable Airspeed / Turbulent Air Penetration

Pitch attitude and average EPR information is provided for use in all phases of flight in the event of unreliable airspeed/Mach indications resulting from blocking or freezing of the pitot system. Loss of radome or turbulent air may also cause unreliable airspeed/Mach indications. The cruise table in this section may also be used for turbulent air penetration.

Pitch attitude is shown in bold type for emphasis since altitude and/or vertical speed indications may also be unreliable.

Max Climb EPR

This table shows Max Climb EPR for a 250/290/.78 climb speed schedule, normal engine bleed for packs on and anti-ice off. Enter the table with airport pressure altitude and TAT and read EPR. EPR adjustments are shown for packs off and anti-ice operation.

VREF

The Reference Speed table contains flaps 30, 25 and 20 landing speeds for a given weight.

Advisory Information

Normal Configuration Landing Distance

Tables are provided as advisory information for normal configuration landing distance on dry runways and slippery runways with good, medium, and poor reported braking action. These values are actual landing distances and do not include the 1.67 regulatory factor. Therefore, they cannot be used to determine the dispatch required landing field length.

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To use these tables, determine the reference landing distance for the selected braking configuration. Then adjust the reference distance for landing weight, altitude, wind, slope, temperature, approach speed, and the number of operative thrust reversers to obtain the actual landing distance.

When landing on slippery runways or runways contaminated with ice, snow, slush, or standing water, the reported braking action must be considered. If the surface is affected by water, snow, or ice and the braking action is reported as "good", conditions should not be expected to be as good as on clean, dry runways. The value "good" is comparative and is intended to mean that airplanes should not experience braking or directional control difficulties when landing. The performance level used to calculate the "good" data is consistent with wet runway testing done on early Boeing jets. The performance level used to calculate "poor" data reflects runways covered with wet ice.

Use of the autobrake system commands the airplane to a constant deceleration rate. In some conditions, such as a runway with "poor" braking action, the airplane may not be able to achieve these deceleration rates. In these cases, runway slope and inoperative reversers influence the stopping distance. Since it cannot be determined quickly when this becomes a factor, it is conservative to add the effects of slope and inoperative reversers when using the autobrake system.

Non-normal Configuration Landing Distance

Advisory information is provided to support non-normal configurations that affect the landing performance of the airplane. Landing distances and adjustments are provided for dry runways and runways with good, medium, and poor reported braking action.

Enter the table with the applicable non-normal configuration and read the normal approach speed. The reference landing distance is a reference distance from 50 ft above the threshold to stop based on a reference landing weight and speed at sea level, zero wind, and zero slope. Subsequent columns provide adjustments for off-reference landing weight, altitude, wind, slope, and speed conditions. Each adjustment is independently added to the reference landing distance. Landing distance includes the effects of max manual braking and reverse thrust.

Recommeded Brake Cooling Schedule

Advisory information is provided to assist in avoiding the problems associated with hot brakes. For normal operation, most landings are at weights below the AFM quick turnaround limit weight.

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Use of the recommended cooling schedule will help avoid brake overheat and fuse plug problems that could result from repeated landings at short time intervals or a rejected takeoff.

Enter the Recommended Brake Cooling Schedule table with the airplane weight and brakes on speed, adjusted for wind, at the appropriate temperature and altitude condition. Instructions for applying wind adjustments are included below the table. Linear interpolation may be used to obtain intermediate values. The resulting number is the reference brake energy per brake in millions of foot-pounds, and represents the amount of energy absorbed by each brake during a rejected takeoff

To determine the energy per brake absorbed during landing, enter the appropriate Adjusted Brake Energy Per Brake table (No Reverse Thrust or Two Engine Reverse) with the reference brake energy per brake and the type of braking used during landing (Max Manual, Max Auto, or Autobrake). The resulting number is the adjusted brake energy per brake and represents the energy absorbed in each brake during the landing.

The recommended cooling time is found in the final table by entering with the adjusted brake energy per brake or brake temperature monitor system (BTMS) indication on EICAS. Times are provided for ground cooling and inflight gear down cooling.

If brake temperature monitor indication on EICAS is available, the hottest brake indication 10 to 15 minutes after the airplane has come to a complete stop, or inflight with gear retracted, may be used to determine the recommended cooling schedule by entering at the bottom of the chart. The brake temperature light illuminates when the hottest brake is registering 5 on the EICAS indication and extinguishes as the hottest brake cools with an EICAS indication of 4.

Engine Inoperative

Initial Max Continuous EPR

The Initial Max Continuous EPR setting for use following an engine failure is shown. The table shows a range of Cruise Mach numbers to provide a target EPR setting at the start of driftdown. Also shown is the maximum TAT at which the limit EPR can be set. Once driftdown is established, the Max Continuous EPR table should be used to determine EPR for the given conditions.

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Max Continuous EPR

Power setting is based on one engine operating with one A/C pack operating and all anti-ice bleeds off. Enter the table with pressure altitude and IAS or Mach to read EPR.

It is desirable to maintain engine thrust level within the limits of the Max Cruise thrust rating. However, where thrust level in excess of Max Cruise rating is required, such as for meeting terrain clearance, ATC altitude assignments, or to attain maximum range capability, it is permissible to use the thrust needed up to the Max Continuous thrust rating. The Max Continuous thrust rating is intended primarily for emergency use at the discretion of the pilot and is the maximum thrust that may be used continuously.

Driftdown Speed/Level Off Altitude

The table shows optimum driftdown speed as a function of cruise weight at start of driftdown. Also shown are the approximate weight and pressure altitude at which the airplane will level off considering 100 ft/min residual rate of climb

The level off altitude is dependent on air temperature (ISA deviation).

Driftdown/LRC Range Capability

This table shows the range capability from the start of driftdown. Driftdown is continued to level off altitude. As weight decreases due to fuel burn, the airplane is accelerated to Long Range Cruise speed. Cruise is continued at level off altitude and Long Range Cruise speed.

To determine fuel required, enter the Ground to Air Miles Conversion table with the desired ground distance and adjust for anticipated winds to obtain air distance to destination. Then enter the Driftdown/Cruise Fuel and Time table with air distance and weight at start of driftdown to determine fuel and time required. If altitudes other than the level off altitude are used, fuel and time required may be obtained by using the Engine Inoperative Long Range Cruise Enroute Fuel and Time table.

Long Range Cruise Altitude Capability

The table shows the maximum altitude that can be maintained at a given weight and air temperature (ISA deviation), based on Long Range Cruise speed, Max Continuous thrust, and 100 ft/min residual rate of climb.

Long Range Cruise Control

The table provides target EPR, engine inoperative Long Range Cruise Mach number, IAS and fuel flow for the airplane weight and pressure altitude. The fuel flow values in this table reflect single engine fuel burn.

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Long Range Cruise Diversion Fuel and Time

Tables are provided for crews to determine the fuel and time required to proceed to an alternate airfield with one engine inoperative. The data is based on single engine Long Range Cruise speed and .78/290/250 descent. Enter with Air Distance as determined from the Ground to Air Miles Conversion table and read Fuel and Time required at the cruise pressure altitude. Adjust the fuel obtained for deviation from the reference weight at checkpoint as required by entering the Fuel Required Adjustment table with the fuel required for the reference weight and the actual weight at checkpoint.

Holding

Target EPR, indicated airspeed and fuel flow per engine information is tabulated for holding with flaps up based on the FMC optimum holding speed schedule. This is the higher of the maximum endurance speed and the maneuvering speed. Small variations in airspeed will not appreciably affect the overall endurance time. Enter the table with weight and pressure altitude to read EPR, IAS and fuel flow per engine.

Gear Down

This section contains performance for airplane operation with the landing gear extended for all phases of flight. The data is based on engine bleeds for normal air conditioning.

NOTE: The Flight Management Computer System (FMCS) does not contain special provisions for operation with landing gear extended. As a result, the FMCS will generate inaccurate enroute speed schedules, display non-conservative predictions of fuel burn, estimated time of arrival (ETA), maximum altitude, and compute overly shallow descent path. To obtain accurate ETA predictions, gear down cruise speed and altitude should be entered on the CLB and CRZ pages. Gear down cruise speed should also be entered on the DES page and a STEP SIZE of zero should be entered on the PERF INIT or CRZ page. Use of the VNAV during descent under these circumstances is not recommended.

Tables for gear down performance in this section are identical in format and used in the same manner as tables for the gear up configuration previously described.

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Flight With Unreliable Airspeed / Turbulent Air Penetration Altitude and/or vertical speed indications may also be unreliable. Climb (290/.78)

Flaps Up, Set Max Climb Thrust

| PRES | SURE | | WEIGHT | (1000 LB) | |
|-----------|--------------|------|--------|-----------|------|
| ALTITU | DE (FT) | 140 | 180 | 220 | 260 |
| 40000 | PITCH ATT | 4.5 | 4.0 | | |
| 40000 | V/S (FT/MIN) | 1600 | 700 | | |
| 30000 | PITCH ATT | 4.0 | 4.0 | 3.5 | 4.0 |
| 30000 | V/S (FT/MIN) | 2200 | 1600 | 1100 | 700 |
| 20000 | PITCH ATT | 6.5 | 6.0 | 5.5 | 5.5 |
| 20000 | V/S (FT/MIN) | 3500 | 2600 | 1900 | 1400 |
| 10000 | PITCH ATT | 9.5 | 8.0 | 7.5 | 7.0 |
| 10000 | V/S (FT/MIN) | 4600 | 3500 | 2700 | 2100 |
| SEA LEVEL | PITCH ATT | 12.5 | 10.5 | 9.5 | 8.5 |
| SEA LEVEL | V/S (FT/MIN) | 5600 | 4200 | 3300 | 2600 |

Cruise (.78/290)

Flaps Up, EPR for Level Flight

| PRES | SSURE | | WEIGHT | (1000 LB) | |
|--------|----------------|--------|--------|-----------|--------|
| ALTITU | JDE (FT) | 140 | 180 | 220 | 260 |
| | PITCH ATT | 2.5 | 3.0 | | |
| 40000 | EPR | 1.14 | 1.26 | | |
| | (Alt Mode %N1) | (77.1) | (81.3) | | |
| | PITCH ATT | 1.5 | 2.5 | 3.0 | 3.5 |
| 35000 | EPR | 1.08 | 1.13 | 1.23 | 1.38 |
| | (Alt Mode %N1) | (74.6) | (77.1) | (80.4) | (85.7) |
| | PITCH ATT | 1.0 | 2.0 | 2.5 | 3.0 |
| 30000 | EPR | 1.03 | 1.07 | 1.11 | 1.18 |
| | (Alt Mode %N1) | (73.8) | (75.4) | (77.5) | (80.2) |
| | PITCH ATT | 1.5 | 2.0 | 2.5 | 3.5 |
| 25000 | EPR | 0.99 | 1.02 | 1.05 | 1.10 |
| | (Alt Mode %N1) | (70.3) | (71.9) | (73.8) | (76.3) |
| | PITCH ATT | 1.5 | 2.0 | 2.5 | 3.5 |
| 20000 | EPR | 0.98 | 1.00 | 1.02 | 1.05 |
| | (Alt Mode %N1) | (67.2) | (68.5) | (70.5) | (72.8) |
| | PITCH ATT | 1.5 | 2.0 | 3.0 | 3.5 |
| 15000 | EPR | 0.97 | 0.98 | 1.00 | 1.03 |
| | (Alt Mode %N1) | (64.0) | (65.3) | (67.2) | (69.5) |

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Flight With Unreliable Airspeed / Turbulent Air Penetration Altitude and/or vertical speed indications may also be unreliable. Descent (.78/290)

Flaps Up, Set Idle Thrust

| PRES | SURE | | WEIGHT | (1000 LB) | |
|-----------|--------------|-------|--------|-----------|-------|
| ALTITU | DE (FT) | 140 | 180 | 220 | 260 |
| 40000 | PITCH ATT | -0.5 | 0.5 | | |
| 40000 | V/S (FT/MIN) | -2300 | -2300 | | |
| 30000 | PITCH ATT | -2.0 | -1.0 | 0.0 | 0.5 |
| 30000 | V/S (FT/MIN) | -2700 | -2300 | -2100 | -2000 |
| 20000 | PITCH ATT | -2.0 | -1.0 | 0.0 | 1.0 |
| 20000 | V/S (FT/MIN) | -2500 | -2100 | -1900 | -1800 |
| 10000 | PITCH ATT | -2.5 | -1.5 | -0.5 | 0.5 |
| 10000 | V/S (FT/MIN) | -2400 | -2000 | -1800 | -1700 |
| SEA LEVEL | PITCH ATT | -3.0 | -1.5 | -0.5 | 0.5 |
| SEA LEVEL | V/S (FT/MIN) | -2200 | -1800 | -1600 | -1500 |

Holding

Flaps Up, EPR for Level Flight

| PRE | SSURE | | WEIGHT | (1000 LB) | |
|-------|----------------|--------|--------|-----------|--------|
| ALTIT | UDE (FT) | 140 | 180 | 220 | 260 |
| | PITCH ATT | 5.5 | 5.5 | 6.0 | 6.0 |
| 10000 | EPR | 1.01 | 1.02 | 1.03 | 1.04 |
| 10000 | (Alt Mode %N1) | (50.9) | (56.4) | (61.0) | (64.9) |
| | KIAS | 188 | 205 | 222 | 242 |
| | PITCH ATT | 5.5 | 6.0 | 6.0 | 6.0 |
| 5000 | EPR | 1.01 | 1.01 | 1.02 | 1.03 |
| 5000 | (Alt Mode %N1) | (47.6) | (52.9) | (57.5) | (61.4) |
| | KIAS | 188 | 205 | 222 | 241 |

Terminal Area (5000 FT) EPR for Level Flight

| FLAP PO | OSITION | | WEIGHT | (1000 LB) | |
|----------------------------|----------------|--------|--------|-----------|--------|
| (VREF + IN | CREMENT) | 140 | 180 | 220 | 260 |
| EL ADG 1 | PITCH ATT | 6.5 | 7.0 | 7.5 | 8.0 |
| FLAPS 1 | EPR | 1.02 | 1.04 | 1.05 | 1.07 |
| (GEAR UP) (VREF30 + 60) | KIAS | 169 | 185 | 201 | 216 |
| (VICEI 30 + 00) | (Alt Mode %N1) | (47.2) | (52.8) | (58.1) | (63.2) |
| ELADO 5 | PITCH ATT | 7.0 | 7.0 | 7.5 | 7.5 |
| FLAPS 5 (GEAR UP) | EPR | 1.04 | 1.05 | 1.07 | 1.09 |
| (VREF30 + 40) | KIAS | 149 | 165 | 181 | 196 |
| (VICEI 30 + 40) | (Alt Mode %N1) | (47.2) | (53.6) | (59.6) | (64.1) |
| ELADO 15 | PITCH ATT | 8.0 | 8.0 | 8.0 | 8.0 |
| FLAPS 15 (GEAR UP) | EPR | 1.05 | 1.07 | 1.10 | 1.12 |
| (VREF30 + 20) | KIAS | 128 | 145 | 161 | 176 |
| (VICEI 30 + 20) | (Alt Mode %N1) | (48.9) | (56.1) | (62.0) | (66.2) |
| EL A DC 20 | PITCH ATT | 5.0 | 5.0 | 5.0 | 5.0 |
| FLAPS 20 (GEAR UP) | EPR | 1.06 | 1.08 | 1.12 | 1.14 |
| (VREF30 + 20) | KIAS | 128 | 145 | 161 | 176 |
| (*RE1 30 + 20) | (Alt Mode %N1) | (50.5) | (58.0) | (63.5) | (67.9) |

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757 Flight Crew Operations Manual

Flight With Unreliable Airspeed / Turbulent Air Penetration Altitude and/or vertical speed indications may also be unreliable. Final Approach (1500 FT)
Gear Down, EPR for 3° Glideslope

| FLAP PO | OSITION | | WEIGHT (1000 LB) | | | | | | | | |
|---------------|----------------|--------|------------------|--------|--------|--|--|--|--|--|--|
| (VREF + IN | CREMENT) | 140 | 180 | 220 | 260 | | | | | | |
| | PITCH ATT | 2.5 | 2.5 | 2.5 | 2.5 | | | | | | |
| FLAPS 25 | EPR | 1.03 | 1.04 | 1.06 | 1.07 | | | | | | |
| (VREF25 + 10) | KIAS | 121 | 137 | 152 | 167 | | | | | | |
| | (Alt Mode %N1) | (42.0) | (47.6) | (52.7) | (57.6) | | | | | | |
| | PITCH ATT | 1.0 | 1.0 | 0.5 | 0.5 | | | | | | |
| FLAPS 30 | EPR | 1.04 | 1.06 | 1.08 | 1.11 | | | | | | |
| (VREF30 + 10) | KIAS | 118 | 135 | 151 | 165 | | | | | | |
| | (Alt Mode %N1) | | (52.0) | (58.2) | (63.1) | | | | | | |

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757 Flight Crew Operations Manual

Max Climb EPR

Based on engine bleed for packs on and anti-ice off

| TAT | | PR | ESSURE A | LTITUDE (| 1000 FT)/S | PEED (KIA | S OR MAC | CH) | |
|-------------|------|------|----------|-----------|------------|-----------|----------|------|------|
| TAT (°C) | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| (C) | 250 | 250 | 250 | 290 | 290 | 290 | 290 | .78 | .78 |
| 60 | 1.15 | 1.14 | 1.12 | 1.08 | 1.05 | 1.02 | 0.99 | 0.98 | 0.97 |
| 50 | 1.18 | 1.17 | 1.16 | 1.11 | 1.09 | 1.06 | 1.04 | 1.03 | 1.02 |
| 40 | 1.22 | 1.21 | 1.19 | 1.15 | 1.13 | 1.11 | 1.09 | 1.08 | 1.07 |
| 30 | 1.24 | 1.25 | 1.23 | 1.20 | 1.18 | 1.16 | 1.14 | 1.13 | 1.12 |
| 20 | 1.24 | 1.27 | 1.28 | 1.25 | 1.23 | 1.21 | 1.19 | 1.18 | 1.18 |
| 10 | 1.24 | 1.27 | 1.30 | 1.29 | 1.29 | 1.27 | 1.26 | 1.25 | 1.24 |
| 0 | 1.24 | 1.27 | 1.30 | 1.29 | 1.32 | 1.35 | 1.33 | 1.32 | 1.32 |
| -10 | 1.24 | 1.27 | 1.30 | 1.29 | 1.32 | 1.35 | 1.39 | 1.41 | 1.41 |
| -20 | 1.24 | 1.27 | 1.30 | 1.29 | 1.32 | 1.35 | 1.39 | 1.48 | 1.50 |

EPR Adjustments for Engine Bleeds

| BLEED | | PRESSURE ALTITUDE (1000 FT) | | | | | | | | | |
|---------------------------|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|--|--|
| CONFIGURATION | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | | |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | | |
| ENGINE ANTI-ICE ON | 0.00 | 0.00 | -0.03 | -0.03 | -0.03 | -0.04 | -0.04 | -0.05 | -0.07 | | |
| ENGINE & WING ANTI-ICE ON | -0.02 | -0.02 | -0.06 | -0.06 | -0.06 | -0.07 | -0.08 | -0.10 | -0.13 | | |

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VREF (KIAS)

| WEIGHT | | FLAPS | |
|-----------|-----|-------|-----|
| (1000 LB) | 30 | 25 | 20 |
| 260 | 155 | 157 | 165 |
| 240 | 148 | 150 | 158 |
| 220 | 140 | 142 | 151 |
| 200 | 133 | 135 | 144 |
| 180 | 125 | 127 | 136 |
| 160 | 117 | 119 | 128 |
| 140 | 109 | 111 | 119 |

November 18, 2008 D632N001-200 PI-QRH.20.5

757-200/PW2037 FAA

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757 Flight Crew Operations Manual

Performance Inflight - QRH Advisory Information

Chapter PI-QRH Section 21

ADVISORY INFORMATION

Normal Configuration Landing Distance Flaps 30 Dry Runway

| | , | | LA | NDING | DISTA | NCE A | ND ADJ | USTN | IENT: | S (FT) | | | |
|---|--------------------------|--------------------------------|---|------------|-------|------------------------|--------|---------------------|------------|--------|----------------------------------|-------------------|------|
| | | REF DIST | WT ADJ | ALT ADJ | | WIND ADJ PER 10 KTS | | SLOPE ADJ PER 1% | | | | REVI THR AI | UST |
| | BRAKING CONFIGURATION | 190000 LB LANDING WEIGHT | PER 10000 LB ABOVE/ BELOW 190000 LB | HIGH* | | TAIL WIND | | UP HILL | ABV ISA | | PER 10 KTS ABOVE VREF30 | REV | |
| 1 | MAX MANUAL | 2700 | +100/-90 | 60/70 | -110 | 380 | 40 | -30 | 50 | -50 | 210 | 60 | 130 |
| | MAX AUTO | 4050 | +160/-160 | 90/120 | -180 | 570 | 50 | -50 | 90 | -90 | 310 | 180 | 360 |
| | AUTOBRAKE 4 | 4380 | +190/-180 | 110/140 | -210 | 680 | 60 | -60 | 110 | -100 | 360 | 190 | 390 |
| 1 | AUTOBRAKE 3 | 4950 | +240/-240 | 140/180 | -250 | 850 | 90 | -90 | 140 | -130 | 410 | 240 | 470 |
| 1 | AUTOBRAKE 2 | 5300 | +290/-280 | 170/220 | -290 | 980 | 150 | -150 | 160 | -140 | 410 | 540 | 800 |
| | AUTOBRAKE 1 | 5540 | +330/-290 | 190/270 | -320 | 1110 | 190 | -170 | 170 | -150 | 410 | 960 | 1450 |

Good Reported Braking Action

| MAX MANUAL | 3520 | +150/-130 | 90/120 | -170 | 610 | 80 | -70 | 80 | -80 | 280 | 220 | 540 |
|-------------|------|-----------|---------|------|-----|----|-----|-----|------|-----|-----|-----|
| MAX AUTO | 4210 | +180/-170 | 100/140 | -200 | 690 | 90 | -80 | 100 | -90 | 310 | 360 | 910 |
| AUTOBRAKE 4 | 4430 | +190/-190 | 110/140 | -220 | 730 | 80 | -70 | 110 | -110 | 360 | 240 | 670 |
| AUTOBRAKE 3 | 4950 | +240/-240 | 140/180 | -250 | 850 | 90 | -90 | 140 | -130 | 410 | 240 | 480 |

Medium Reported Braking Action

| | MAX MANUAL | 4570 | +220/-190 | 130/180 | -260 | 970 | 180 | -140 | 120 | -110 | 340 | 590 | 1640 |
|---|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|-----|------|
| | MAX AUTO | 4820 | +240/-220 | 140/190 | -280 | 1000 | 190 | -160 | 130 | -110 | 340 | 740 | 2050 |
| | AUTOBRAKE 4 | 4850 | +240/-220 | 140/190 | -280 | 1000 | 180 | -150 | 130 | -110 | 360 | 720 | 2020 |
| 1 | AUTOBRAKE 3 | 5190 | +250/-250 | 150/190 | -300 | 1060 | 160 | -150 | 140 | -130 | 410 | 460 | 1660 |

Poor Reported Braking Action

| | - | | | | | | | | | | | |
|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|------|------|
| MAX MANUAL | 5630 | +290/-260 | 170/250 | -370 | 1470 | 390 | -260 | 150 | -130 | 380 | 1200 | 3850 |
| MAX AUTO | 5630 | +300/-280 | 180/250 | -400 | 1480 | 390 | -280 | 160 | -130 | 370 | 1320 | 4200 |
| AUTOBRAKE 4 | 5630 | +300/-280 | 180/250 | -400 | 1480 | 390 | -280 | 160 | -130 | 380 | 1320 | 4200 |
| AUTOBRAKE 3 | 5740 | +300/-280 | 170/250 | -400 | 1490 | 370 | -270 | 160 | -140 | 410 | 1200 | 4080 |

Reference distance is for sea level, standard day, no wind or slope, VREF30 approach speed and 2 engine reverse thrust.

Max Manual braking data valid for auto speedbrakes. For manual speedbrakes, increase reference landing distance by 270 ft.

Autobrake data valid both for auto and manual speedbrakes.

Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply the HIGH adjustment to this new reference distance.

ADVISORY INFORMATION

Normal Configuration Landing Distance Flaps 25

Dry Runway

| | | LANDING DISTANCE AND ADJUSTMENTS (FT) | | | | | | | | | | |
|--------------------------|--------------------------------|---------------------------------------|------------|------|------|-----|-------------|-------------------|------|----------------------------------|------|------|
| | REF DIST | WT ADJ | ALT ADJ | | | | VREF ADJ | REVE THR AI | UST | | | |
| BRAKING CONFIGURATION | 190000 LB LANDING WEIGHT | | STD/ | | | | UP HILL | ABV ISA | ISA | PER 10 KTS ABOVE VREF25 | REV | |
| MAX MANUAL | 2730 | +90/-90 | 60/80 | -110 | 390 | 40 | -30 | 60 | -50 | 210 | 60 | 140 |
| MAX AUTO | 4170 | +160/-160 | 100/130 | -180 | 580 | 50 | -50 | 100 | -90 | 320 | 190 | 400 |
| AUTOBRAKE 4 | 4520 | +190/-190 | 110/150 | -210 | 690 | 60 | -60 | 120 | -110 | 380 | 210 | 430 |
| AUTOBRAKE 3 | 5120 | +240/-240 | 140/190 | -260 | 860 | 90 | -100 | 150 | -130 | 430 | 270 | 530 |
| AUTOBRAKE 2 | 5480 | +290/-290 | 180/240 | -300 | 1000 | 160 | -160 | 180 | -150 | 430 | 610 | 900 |
| AUTOBRAKE 1 | 5720 | +330/-300 | 200/280 | -330 | 1120 | 200 | -180 | 190 | -150 | 430 | 1070 | 1600 |

Good Reported Braking Action

| MAX MANUAL | 3580 | +150/-130 | 90/120 | -170 | 610 | 80 | -70 | 80 | -80 | 280 | 230 | 580 |
|-------------|------|-----------|---------|------|-----|----|------|-----|------|-----|-----|-----|
| MAX AUTO | 4320 | +180/-170 | 100/140 | -210 | 690 | 90 | -80 | 100 | -100 | 320 | 380 | 990 |
| AUTOBRAKE 4 | 4570 | +190/-190 | 110/150 | -220 | 740 | 80 | -80 | 120 | -110 | 380 | 250 | 720 |
| AUTOBRAKE 3 | 5120 | +240/-240 | 140/190 | -260 | 860 | 90 | -100 | 150 | -130 | 430 | 270 | 530 |

Medium Reported Braking Action

| MAX MANUAL | 4670 | +220/-190 | 130/190 | -260 | 980 | 180 | -150 | 120 | -110 | 350 | 640 | 1810 |
|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|-----|------|
| MAX AUTO | 4950 | +240/-220 | 140/200 | -290 | 1010 | 190 | -160 | 140 | -120 | 350 | 810 | 2270 |
| AUTOBRAKE 4 | 4990 | +230/-220 | 140/200 | -290 | 1010 | 180 | -150 | 130 | -120 | 380 | 770 | 2230 |
| AUTOBRAKE 3 | 5360 | +250/-250 | 150/200 | -310 | 1080 | 170 | -150 | 150 | -140 | 430 | 500 | 1840 |

Poor Reported Braking Action

| 1 | MAX MANUAL | 5780 | +290/-260 | 170/250 | -370 | 1490 | 400 | -270 | 160 | -140 | 390 | 1300 | 4320 |
|---|-------------|------|-----------|---------|------|------|-----|------|-----|------|-----|------|------|
| | MAX AUTO | 5780 | +300/-280 | 180/260 | -400 | 1490 | 400 | -290 | 170 | -140 | 390 | 1440 | 4730 |
| 1 | AUTOBRAKE 4 | 5780 | +300/-280 | 180/260 | -400 | 1490 | 400 | -290 | 170 | -140 | 390 | 1430 | 4720 |
| 1 | AUTOBRAKE 3 | 5920 | +300/-280 | 180/250 | -410 | 1510 | 380 | -270 | 170 | -140 | 430 | 1290 | 4590 |

Reference distance is for sea level, standard day, no wind or slope, VREF25 approach speed and 2 engine reverse thrust.

Max Manual braking data valid for auto speedbrakes. For manual speedbrakes, increase reference landing distance by 270 ft.

Autobrake data valid for both auto and manual speedbrakes.

Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply the HIGH adjustment to this new reference distance.

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ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Dry Runway

| | | I | ANDING I | DISTANCE A | ND AI | JUST. | MENTS | (FT) | |
|---|-----------|--------------------------------|------------------------------|--------------------------------|-------|-------|--------------|------|---------------------------------|
| LANDING | VREF | REFERENCE DISTANCE* FOR | WT ADJ PER 5000 LB | ALTITUDE ADJ PER 1000 FT | PER 1 | 0 KTS | PER | 1% | APPROACH SPEED PER 10 KTS |
| CONFIGURATION | | 190000 LB LANDING WEIGHT | ABOVE/ BELOW 190000 LB | STD/HIGH *** | | | DOWN HILL | | ADOME |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | 3550 | 70/-60 | 85/120 | -150 | 535 | 75 | -65 | 400 |
| ANTI-SKID SYSTEM INOP | VREF30 | 4070 | 85/-75 | 95/140 | -195 | 730 | 90 | -75 | 320 |
| FLAPS UP | VREF30+50 | 3650 | 160/-60 | 100/160 | -150 | 585 | 55 | -50 | 285 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 2740 | 55/-45 | 60/80 | -110 | 400 | 40 | -35 | 235 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 3250 | 65/-55 | 70/100 | -135 | 475 | 50 | -45 | 310 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 3520 | 65/-60 | 80/110 | -140 | 490 | 55 | -50 | 310 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 3300 | 70/-60 | 80/120 | -145 | 515 | 75 | -65 | 355 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 3930 | 75/-65 | 95/130 | -155 | 530 | 65 | -60 | 360 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 4070 | 80/-75 | 110/155 | -170 | 585 | 100 | -85 | 425 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | 5590 | 105/-90 | 155/245 | -240 | 815 | 220 | -175 | 755 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*** For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Dry Runway

| | | LANDING DISTANCE AND ADJUSTMENTS (FT) REFERENCE WT ADJ ALTITUDE WIND ADJ SLOPE ADJ APPROACH | | | | | | | | | | |
|---|-----------|--|------------------------------|--------------------------------|-------|-------|--------------|-----|---------------------------------|--|--|--|
| LANDING | VREF | DISTANCE* FOR | WT ADJ PER 5000 LB | ALTITUDE ADJ PER 1000 FT | PER 1 | 0 KTS | PER | 1% | APPROACH SPEED PER 10 KTS | | | |
| CONFIGURATION | VICE | 190000 LB LANDING WEIGHT | ABOVE/ BELOW 190000 LB | STD/HIGH | | | DOWN HILL | | A DOME | | | |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 2870 | 65/-50 | 60/75 | -115 | 395 | 35 | -35 | 220 | | | |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 3330 | 95/-55 | 80/105 | -125 | 430 | 45 | -40 | 230 | | | |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 3550 | 120/-60 | 85/130 | -130 | 445 | 45 | -45 | 235 | | | |
| LE SLAT DISAGREE | VREF20 | 2860 | 70/-45 | 65/80 | -110 | 430 | 35 | -35 | 220 | | | |
| ONE ENGINE INOP | VREF20 | 2920 | 75/-50 | 65/85 | -115 | 450 | 40 | -35 | 235 | | | |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 3360 | 105/-55 | 80/105 | -135 | 505 | 50 | -45 | 265 | | | |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 2860 | 70/-45 | 65/80 | -110 | 430 | 35 | -35 | 220 | | | |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>3240</td><td>115/-50</td><td>75/100</td><td>-135</td><td>495</td><td>45</td><td>-40</td><td>245</td></flaps<20<> | VREF30+30 | 3240 | 115/-50 | 75/100 | -135 | 495 | 45 | -40 | 245 | | | |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 3450 | 135/-55 | 80/125 | -140 | 525 | 50 | -45 | 255 | | | |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 2860 | 70/-45 | 65/80 | -110 | 430 | 35 | -35 | 220 | | | |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Good Reported Braking Action

| | | I | ANDING I | DISTANCE A | ND AI | DJUST | MENTS | (FT) | |
|---|-----------|---|--|---|---------------|---------------|------------------------------|----------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | PER 1 HEAD | 0 KTS TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | 5180 | 110/-90 | 150/240 | -270 | 965 | 255 | -190 | 590 |
| ANTI-SKID SYSTEM INOP | VREF30 | 4850 | 115/-100 | 130/185 | -265 | 1035 | 170 | -135 | 365 |
| FLAPS UP | VREF30+50 | 4870 | 100/-90 | 140/190 | -200 | 720 | 100 | -90 | 285 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 3540 | 80/-70 | 90/125 | -170 | 630 | 85 | -75 | 300 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 4320 | 95/-85 | 115/170 | -215 | 775 | 135 | -110 | 415 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 4750 | 95/-90 | 130/190 | -225 | 810 | 145 | -120 | 420 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 4210 | 100/-85 | 120/175 | -210 | 770 | 150 | -120 | 440 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 5320 | 110/-100 | 150/225 | -245 | 865 | 175 | -140 | 480 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 5250 | 115/-105 | 155/240 | -245 | 865 | 195 | -160 | 520 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | 7440 | 140/-115 | 235/385 | -350 | 1210 | 495 | -355 | 980 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*** For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Good Reported Braking Action

| | | LANDING DISTANCE AND ADJUSTMENTS (FT) REFERENCE WT ADJ ALTERIDE WIND ADJ SLOPE ADJ APPROACH | | | | | | | | | | |
|---|-----------|---|--|---|---------------|---------------|------------------------------|----------|--|--|--|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | PER 1 HEAD | 0 KTS TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF | | | |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 3750 | 80/-75 | 95/135 | -175 | 625 | 85 | -75 | 290 | | | |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 4360 | 90/-85 | 120/170 | -190 | 670 | 95 | -85 | 300 | | | |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 4690 | 95/-90 | 130/185 | -200 | 695 | 100 | -90 | 305 | | | |
| LE SLAT DISAGREE | VREF20 | 3740 | 75/-70 | 95/135 | -175 | 640 | 85 | -75 | 280 | | | |
| ONE ENGINE INOP | VREF20 | 3970 | 85/-80 | 105/140 | -190 | 685 | 110 | -90 | 320 | | | |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 4580 | 95/-90 | 125/170 | -205 | 740 | 125 | -105 | 325 | | | |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 3740 | 75/-70 | 95/135 | -175 | 640 | 85 | -75 | 280 | | | |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>4280</td><td>90/-80</td><td>115/165</td><td>-185</td><td>680</td><td>90</td><td>-80</td><td>280</td></flaps<20<> | VREF30+30 | 4280 | 90/-80 | 115/165 | -185 | 680 | 90 | -80 | 280 | | | |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 4560 | 95/-85 | 125/180 | -190 | 700 | 95 | -85 | 280 | | | |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 3740 | 75/-70 | 95/135 | -175 | 640 | 85 | -75 | 280 | | | |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Medium Reported Braking Action

| | | I | ANDING I | NG DISTANCE AND ADJUSTMENTS (FT) | | | | | |
|---|-----------|---|--|---|---------------|---------------|------------------------------|----------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | PER 1 HEAD | 0 KTS TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | 8530 | 160/-105 | 315/640 | -545 | 2090 | 1210 | -650 | 830 |
| ANTI-SKID SYSTEM INOP | VREF30 | 5860 | 150/-130 | 170/255 | -375 | 1565 | 385 | -255 | 410 |
| FLAPS UP | VREF30+50 | 6390 | 150/-135 | 205/295 | -300 | 1140 | 230 | -185 | 360 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 4550 | 115/-100 | 135/190 | -255 | 1005 | 195 | -150 | 360 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 5930 | 140/-120 | 185/305 | -350 | 1360 | 380 | -265 | 515 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 6610 | 145/-135 | 210/345 | -375 | 1425 | 420 | -290 | 540 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 5890 | 150/-125 | 195/325 | -355 | 1365 | 415 | -285 | 540 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 7360 | 170/-150 | 245/395 | -400 | 1500 | 475 | -335 | 595 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 7400 | 180/-155 | 260/420 | -405 | 1515 | 525 | -365 | 635 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | 13060 | 210/-105 | 510/1075 | -730 | 2640 | 2455 | -1215 | 1420 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*** For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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^{**}Reserve Brake System Only.

ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Medium Reported Braking Action

| LANDING DISTANCE AND ADJUSTMENTS (FT) REFERENCE WT ADJ ALTITUDE WIND ADJ SLOPE ADJ APPROACH | | | | | | | | | | |
|--|-----------|---|--|---|---------------|---------------|------------------------------|----------|---------------------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | PER 1 HEAD | 0 KTS TAIL | SLOPE PER DOWN HILL | 1% UP | SPEED PER 10 KTS | |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 4880 | 115/-105 | 140/210 | -265 | 990 | 185 | -150 | 360 | |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 5640 | 135/-120 | 170/245 | -285 | 1050 | 205 | -170 | 360 | |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 6100 | 145/-130 | 195/280 | -295 | 1085 | 215 | -180 | 370 | |
| LE SLAT DISAGREE | VREF20 | 4870 | 115/-105 | 140/210 | -265 | 1025 | 195 | -150 | 350 | |
| ONE ENGINE INOP | VREF20 | 5480 | 130/-120 | 160/230 | -305 | 1155 | 285 | -210 | 420 | |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 6280 | 150/-135 | 190/270 | -325 | 1220 | 310 | -235 | 415 | |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 4870 | 115/-105 | 140/210 | -265 | 1025 | 195 | -150 | 350 | |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>5600</td><td>135/-120</td><td>175/250</td><td>-280</td><td>1080</td><td>210</td><td>-165</td><td>350</td></flaps<20<> | VREF30+30 | 5600 | 135/-120 | 175/250 | -280 | 1080 | 210 | -165 | 350 | |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 5950 | 140/-125 | 185/270 | -290 | 1105 | 220 | -170 | 350 | |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 4870 | 115/-105 | 140/210 | -265 | 1025 | 195 | -150 | 350 | |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

DO NOT USE FOR FLIGHT Performance Inflight - QRH Advisory Information

757 Flight Crew Operations Manual

ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Poor Reported Braking Action

| | | I | ANDING I | DISTANCE A | ND AI | DJUST | MENTS | (FT) | |
|---|-----------|---|--|---|---------------|---------------|------------------------------|----------|--|
| LANDING CONFIGURATION | VREF | REFERENCE DISTANCE* FOR 190000 LB LANDING WEIGHT | WT ADJ PER 5000 LB ABOVE/ BELOW 190000 LB | ALTITUDE ADJ PER 1000 FT STD/HIGH *** | PER 1 HEAD | 0 KTS TAIL | SLOPE PER DOWN HILL | 1% UP | APPROACH SPEED PER 10 KTS ABOVE VREF |
| AIR-GROUND LOGIC IN AIR MODE | VREF30 | > 15000 | ı | - | - | - | - | - | - |
| ANTI-SKID SYSTEM INOP | VREF30 | 7460 | 205/-175 | 235/335 | -600 | 2865 | 2340 | -565 | 445 |
| FLAPS UP | VREF30+50 | 7880 | 200/-180 | 275/400 | -425 | 1720 | 515 | -325 | 415 |
| HYDRAULIC SYSTEM CENTER INOP | VREF30 | 5590 | 155/-130 | 175/265 | -370 | 1545 | 445 | -270 | 400 |
| HYDRAULIC SYSTEM LEFT INOP | VREF30 | 8060 | 190//-150 | 300/555 | -590 | 2555 | 1645 | -615 | 590 |
| HYDRAULIC SYSTEM LEFT INOP WITH LE SLAT OR TE FLAPS DISAGREE FOR FLAPS ≥ 20 | VREF20 | 9050 | 205/-175 | 340/630 | -630 | 2670 | 1790 | -680 | 635 |
| HYDRAULIC SYSTEM RIGHT INOP | VREF30 | 8090 | 200/-155 | 315/585 | -600 | 2580 | 1740 | -650 | 610 |
| HYDRAULIC SYSTEMS CENTER AND LEFT INOP FLAPS 20 | VREF30+20 | 9960 | 235/-190 | 380/705 | -665 | 2775 | 1930 | -745 | 675 |
| HYDRAULIC SYSTEMS CENTER AND RIGHT INOP FLAPS 20 | VREF30+20 | 10100 | 250/-200 | 405/750 | -675 | 2805 | 2055 | -800 | 715 |
| HYDRAULIC SYSTEM** LEFT & RIGHT INOP FLAPS 20 | VREF30+20 | > 15000 | - | - | - | - | - | - | - |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

*** For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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^{**}Reserve Brake System only.

ADVISORY INFORMATION

Non-Normal Configuration Landing Distance Poor Reported Braking Action

| | | I | ANDING I | DISTANCE A | ND AI | JUST | MENTS | (FT) | |
|--|-----------|--------------------------------|------------------------------|--------------------------------|---------------|------|--------------|------|-----------------------------|
| LANDING | VREF | REFERENCE DISTANCE* FOR | WT ADJ PER 5000 LB | ALTITUDE ADJ PER 1000 FT | WINI PER 1 | | SLOPE PER | | APPROACH SPEED |
| CONFIGURATION | VKEF | 190000 LB LANDING WEIGHT | ABOVE/ BELOW 190000 LB | STD/HIGH | | | DOWN HILL | | PER 10 KTS ABOVE VREF |
| LE SLAT ASYMMETRY FLAPS>20 | VREF20 | 6020 | 155/-140 | 190/285 | -380 | 1510 | 410 | -275 | 405 |
| LE SLAT ASYMMETRY FLAPS = 20 | VREF30+30 | 6890 | 180/-160 | 225/340 | -405 | 1580 | 435 | -300 | 400 |
| LE SLAT ASYMMETRY 5 ≤ FLAPS < 20 | VREF30+40 | 7490 | 195/-175 | 255/370 | -420 | 1625 | 455 | -315 | 425 |
| LE SLAT DISAGREE | VREF20 | 6020 | 155/-140 | 190/285 | -380 | 1580 | 455 | -280 | 395 |
| ONE ENGINE INOP | VREF20 | 7170 | 190/-175 | 230/335 | -460 | 1845 | 720 | -420 | 500 |
| REVERSER UNLOCK FLAPS 20 | VREF30+30 | 8120 | 210/-190 | 270/380 | -485 | 1925 | 760 | -450 | 485 |
| TRAILING EDGE FLAP ASYMMETRY FLAPS ≥ 20 | VREF20 | 6020 | 155/-140 | 190/285 | -380 | 1580 | 455 | -280 | 395 |
| TRAILING EDGE ASYMMETRY 5 <flaps<20< td=""><td>VREF30+30</td><td>6900</td><td>180/-155</td><td>230/345</td><td>-400</td><td>1645</td><td>480</td><td>-300</td><td>405</td></flaps<20<> | VREF30+30 | 6900 | 180/-155 | 230/345 | -400 | 1645 | 480 | -300 | 405 |
| TRAILING EDGE ASYMMETRY FLAPS ≤ 5 | VREF30+40 | 7310 | 190/-165 | 250/365 | -410 | 1675 | 490 | -305 | 400 |
| TRAILING EDGE FLAP DISAGREE | VREF20 | 6020 | 155/-140 | 190/285 | -380 | 1580 | 455 | -280 | 395 |

^{*} Reference distance assumes sea level, standard day with no wind or slope.

Assumes maximum manual braking and maximum reverse thrust when available on operating engine(s). Actual (unfactored) distances are shown.

Includes distance from 50 ft above threshold (1000 ft of air distance).

^{***} For landing distance at or below 8000 ft pressure altitude, apply the STD adjustment. For altitudes higher than 8000 ft, first apply the STD adjustment to derive a new reference landing distance for 8000 ft, then apply HIGH adjustment to this new reference distance.

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757 Flight Crew Operations Manual

ADVISORY INFORMATION

Recommended Brake Cooling Schedule Reference Brake Energy Per Brake (Millions of Foot Pounds)

| | BRAKES ON SPEED (KIAS) 80 100 120 140 160 180 | | | | | | | | | | | | | | | | | | |
|------------|--|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|------|------|--------------|------|--------------|-------|--------------|--------------|--------------|------|
| | | | 80 | | | 100 | | | 120 | | | 140 | | | 160 | | | 180 | |
| WEIGHT | OAT | PRI | ESS A | ALT | PRI | ESS A | ALT | PR | ESS A | LT | PR | ESS A | ALT | PR | ESS A | ALT | PR | ESS A | \LT |
| (1000 LB) | (°F) | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 | 0 | 5 | 10 |
| | 20 | 8.8 | 10.5 | 12.2 | 13.5 | 16.2 | 18.9 | 19.0 | 22.9 | 26.8 | 25.2 | 30.4 | 35.6 | 31.8 | 38.2 | | 39.0 | | |
| | 40 | 9.2 | 10.9 | 12.7 | 14.0 | 16.8 | 19.6 | 19.8 | 23.8 | 27.9 | 26.2 | 31.6 | 37.0 | 33.1 | 39.7 | | 40.5 | | |
| 260 | 60 | 9.5 | 11.4 | 13.2 | 14.6 | 17.5 | 20.4 | 20.6 | 24.8 | 29.0 | 27.3 | 32.9 | 38.5 | 34.4 | 41.3 | | 42.1 | | |
| 200 | 80 | 9.9 | 11.7 | 13.6 | 15.1 | 18.1 | 21.1 | 21.3 | 25.7 | 30.0 | 28.2 | 34.0 | 39.8 | 35.6 | 42.7 | | 43.6 | | |
| | 100 | 10.1 | 12.0 | 14.0 | 15.5 | 18.6 | 21.7 | 21.9 | 26.4 | 30.9 | 29.0 | 35.0 | 41.0 | 36.6 | 44.0 | | 44.9 | | |
| | 120 | 10.2 | 12.2 | 14.2 | 15.8 | 18.9 | 22.1 | 22.3 | 26.9 | 31.5 | 29.6 | 35.8 | 42.0 | 37.5 | 45.0 | | 45.9 | | |
| | 20 | 8.2 | 9.8 | 11.3 | 12.6 | 15.0 | 17.5 | 17.6 | 21.2 | 24.8 | 23.3 | 28.2 | 33.0 | 29.5 | 35.5 | 41.5 | 35.9 | | |
| | 40 | 8.5 | 10.2 | 11.8 | 13.1 | 15.6 | 18.2 | 18.3 | 22.1 | 25.8 | 24.3 | 29.3 | 34.3 | 30.7 | 36.9 | 43.1 | 37.3 | | |
| 240 | 60 | 8.9 | 10.6 | 12.3 | 13.6 | 16.3 | 18.9 | 19.1 | 23.0 | 26.8 | 25.2 | 30.4 | 35.6 | 31.9 | 38.3 | 44.8 | 38.8 | | |
| | 80 | 9.2 | 10.9 | 12.7 | 14.1 | 16.8 | 19.6 | 19.7 | 23.8 | 27.8 | 26.1 | 31.5 | 36.9 | 33.0 | 39.7 | 46.3 | 40.1 | | |
| | 100 | 9.4 | 11.2 | 13.0 | 14.4 | 17.3 | 20.1 | 20.3 | 24.4 | 28.6 | 26.9 | 32.4 | 38.0 | 34.0 | 40.8 | 47.7 | 41.3 | | |
| | 120 20 | 9.5 7.6 | 11.3 | 13.2 | 14.6 | 17.6 13.9 | 20.5 | 20.6 | 24.9 19.5 | 29.2 | 27.4 | 33.1 25.9 | 38.8 | 34.7 | 41.8 | 48.9 38.2 | 42.3 | 20.6 | |
| | 40 | 7.9 | 9.0 9.4 | 10.5 10.9 | 11.6 12.1 | 13.9 | 16.1 16.8 | 16.2 16.9 | 20.3 | 23.7 | 21.4 | 26.9 | 30.3 | 27.1 28.2 | 34.0 | 39.7 | 33.1 34.4 | 39.6 41.2 | |
| | 60 | 8.2 | 9.4 | 11.3 | 12.1 | 15.0 | 17.5 | 17.6 | 20.3 | 24.7 | 23.2 | 28.0 | 32.7 | 29.3 | 35.3 | 41.3 | 35.7 | 42.8 | |
| 220 | 80 | 8.5 | 10.1 | 11.7 | 13.0 | 15.5 | 18.1 | 18.2 | 21.1 | 25.5 | 24.0 | 29.0 | 33.9 | 30.3 | 36.5 | 42.7 | 37.0 | 44.3 | |
| | 100 | 8.7 | 10.1 | 12.0 | 13.3 | 15.9 | 18.5 | 18.7 | 22.4 | 26.2 | 24.0 | 29.8 | 34.9 | 31.2 | 37.6 | 44.0 | 38.1 | 45.6 | |
| | 120 | 8.8 | 10.4 | 12.0 | 13.5 | 16.2 | 18.9 | 19.0 | 22.9 | 26.8 | 25.1 | 30.4 | 35.6 | 31.9 | 38.5 | 45.0 | 38.9 | 46.7 | |
| - | 20 | 7.0 | 8.3 | 9.6 | 10.6 | 12.7 | 14.8 | 14.8 | 17.8 | 20.8 | 19.5 | 23.5 | 27.6 | 24.7 | 29.8 | 34.9 | 30.1 | 36.2 | 42.3 |
| | 40 | 7.3 | 8.7 | 10.0 | 11.1 | 13.2 | 15.4 | 15.4 | 18.5 | 21.6 | 20.3 | 24.5 | 28.6 | 25.6 | 30.9 | 36.2 | 31.3 | 37.6 | 44.0 |
| | 60 | 7.6 | 9.0 | 10.4 | 11.5 | 13.7 | 16.0 | 16.0 | 19.3 | 22.5 | 21.1 | 25.5 | 29.8 | 26.7 | 32.2 | 37.7 | 32.6 | 39.1 | 45.7 |
| 200 | 80 | 7.9 | 9.3 | 10.8 | 11.9 | 14.2 | 16.5 | 16.6 | 19.9 | 23.3 | 21.9 | 26.4 | 30.8 | 27.6 | 33.3 | 39.0 | 33.7 | 40.5 | 47.3 |
| | 100 | 8.0 | 9.5 | 11.0 | 12.2 | 14.6 | 17.0 | 17.0 | 20.5 | 23.9 | 22.5 | 27.1 | 31.7 | 28.4 | 34.3 | 40.1 | 34.7 | 41.7 | 48.7 |
| | 120 | 8.1 | 9.6 | 11.2 | 12.4 | 14.8 | 17.3 | 17.3 | 20.8 | 24.4 | 22.9 | 27.6 | 32.4 | 29.0 | 35.0 | 41.0 | 35.4 | 42.7 | 49.9 |
| | 20 | 6.4 | 7.6 | 8.8 | 9.7 | 11.5 | 13.4 | 13.4 | 16.1 | 18.7 | 17.6 | 21.2 | 24.8 | 22.2 | 26.8 | 31.4 | 27.1 | 32.6 | 38.2 |
| | 40 | 6.7 | 7.9 | 9.1 | 10.1 | 12.0 | 13.9 | 14.0 | 16.7 | 19.5 | 18.3 | 22.0 | 25.8 | 23.1 | 27.8 | 32.6 | 28.1 | 33.9 | 39.7 |
| 100 | 60 | 7.0 | 8.2 | 9.5 | 10.5 | 12.5 | 14.5 | 14.5 | 17.4 | 20.3 | 19.0 | 22.9 | 26.8 | 24.0 | 28.9 | 33.9 | 29.3 | 35.2 | 41.2 |
| 180 | 80 | 7.2 | 8.5 | 9.8 | 10.8 | 12.9 | 15.0 | 15.0 | 18.0 | 21.0 | 19.7 | 23.7 | 27.7 | 24.8 | 30.0 | 35.1 | 30.3 | 36.5 | 42.7 |
| | 100 | 7.3 | 8.7 | 10.1 | 11.1 | 13.2 | 15.4 | 15.4 | 18.5 | 21.6 | 20.2 | 24.4 | 28.5 | 25.5 | 30.8 | 36.1 | 31.1 | 37.5 | 43.9 |
| | 120 | 7.4 | 8.8 | 10.2 | 11.2 | 13.4 | 15.6 | 15.7 | 18.8 | 22.0 | 20.6 | 24.9 | 29.1 | 26.0 | 31.5 | 36.9 | 31.8 | 38.4 | 45.0 |
| | 20 | 5.8 | 6.9 | 8.0 | 8.7 | 10.4 | 12.0 | 12.0 | 14.4 | 16.7 | 15.7 | 18.8 | 22.0 | 19.6 | 23.7 | 27.7 | 23.9 | 28.8 | 33.8 |
| | 40 | 6.1 | 7.2 | 8.3 | 9.1 | 10.8 | 12.5 | 12.5 | 14.9 | 17.4 | 16.3 | 19.6 | 22.9 | 20.4 | 24.6 | 28.8 | 24.8 | 30.0 | 35.1 |
| 160 | 60 | 6.3 | 7.5 | 8.6 | 9.4 | 11.2 | 13.0 | 13.0 | 15.5 | 18.1 | 16.9 | 20.4 | 23.8 | 21.2 | 25.6 | 30.0 | | 31.2 | 36.5 |
| 100 | 80 | 6.5 | 7.7 | 8.9 | 9.8 | 11.6 | 13.5 | 13.5 | 16.1 | 18.7 | 17.5 | 21.1 | 24.6 | 22.0 | 26.5 | 31.0 | 26.8 | 32.3 | 37.8 |
| | 100 | 6.6 | 7.9 | 9.1 | 10.0 | 11.9 | 13.8 | 13.8 | 16.5 | 19.2 | 18.0 | 21.6 | 25.3 | 22.6 | 27.3 | 31.9 | 27.5 | 33.2 | 38.9 |
| | 120 | 6.7 | 7.9 | 9.2 | 10.1 | 12.0 | 14.0 | 14.0 | 16.8 | 19.6 | 18.3 | 22.1 | 25.8 | 23.0 | 27.8 | 32.6 | 28.1 | 33.9 | 39.8 |
| | 20 | 5.2 | 6.2 | 7.1 | 7.8 | 9.2 | 10.7 | 10.6 | 12.6 | 14.7 | 13.7 | 16.4 | 19.2 | 17.0 | 20.5 | 24.0 | 20.6 | 24.9 | 29.1 |
| | 40 | 5.4 | 6.4 | 7.4 | 8.1 | 9.6 | 11.1 | 11.0 | 13.2 | 15.3 | 14.3 | 17.1 | 19.9 | 17.7 | 21.3 | 24.9 | 21.4 | 25.8 | 30.3 |
| 140 | 60 | 5.7 | 6.7 | 7.7 | 8.4 | 10.0 | 11.5 | 11.5 | 13.7 | 15.9 | 14.8 | 17.8 | 20.7 | 18.4 | 22.2 | 25.9 | 22.3 | 26.9 | 31.5 |
| | 80 | 5.8 | 6.9 | 8.0 | 8.7 | 10.3 | 11.9 | 11.9 | 14.2 | 16.5 | 15.4 | 18.4 | 21.5 | 19.1 | 23.0 | 26.9 | 23.1 | 27.8 | 32.6 |
| | 100 | 5.9 | 7.0 | 8.1 | 8.9 | 10.5 | 12.2 | 12.1 | 14.5 | 16.9 | 15.8 | 18.9 | 22.1 | 19.6 | 23.6 | 27.6 | 23.7 | 28.6 | 33.5 |
| To correct | 120 | 6.0 | 7.1 | 8.2 | 8.9 | 10.7 | 12.4 | 12.3 | 14.7 | 17.2 | 16.0 | 19.2 | 22.5 | 20.0 | | 28.2 | 24.2 | 29.2 | |

To correct for wind, enter table with the brakes on speed minus one half the headwind or plus 1.5 times the tailwind.

If ground speed is used for brakes on speed, ignore wind and enter table with sea level, 60°F.

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ADVISORY INFORMATION

Recommended Brake Cooling Schedule Adjusted Brake Energy Per Brake (Millions of Foot Pounds) No Reverse Thrust

| | | REF | ERENCI | E BRAK | E ENE | RGY PE | R BRAK | E (MIL | LIONS | OF FOO | T POU | NDS) |
|-------|-------------|-----|--------|--------|-------|--------|--------|--------|-------|--------|-------|------|
| | EVENT | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| R | O MAX MAN | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| | MAX MAN | 9.2 | 11.2 | 13.1 | 15.0 | 17.0 | 18.9 | 20.9 | 22.8 | 24.7 | 26.7 | 28.6 |
| Ō | MAX AUTO | 8.9 | 10.8 | 12.6 | 14.4 | 16.3 | 18.1 | 19.9 | 21.7 | 23.5 | 25.3 | 27.2 |
| NDING | AUTOBRAKE 4 | 8.8 | 10.6 | 12.3 | 14.0 | 15.7 | 17.4 | 19.1 | 20.8 | 22.5 | 24.2 | 26.0 |
| ΙZ | AUTOBRAKE 3 | 8.7 | 10.4 | 12.0 | 13.7 | 15.3 | 16.9 | 18.4 | 20.0 | 21.6 | 23.2 | 24.8 |
| Ţ | AUTOBRAKE 2 | 8.6 | 10.2 | 11.7 | 13.2 | 14.7 | 16.2 | 17.7 | 19.1 | 20.6 | 22.0 | 23.5 |
| | AUTOBRAKE 1 | 8.4 | 9.8 | 11.3 | 12.6 | 14.0 | 15.3 | 16.6 | 17.8 | 19.1 | 20.4 | 21.7 |

Two Engine Reverse

| | | REF | ERENC. | E BRAK | E ENE | RGY PE | R BRAK | Œ (MIL | LIONS | OF FOO | T POU | NDS) |
|-------|-------------|-----|--------|--------|-------|--------|--------|--------|-------|--------|-------|------|
| | EVENT | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| R | TO MAX MAN | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| | MAX MAN | 7.6 | 9.2 | 10.8 | 12.5 | 14.2 | 15.9 | 17.6 | 19.3 | 21.0 | 22.6 | 24.2 |
| Ō | MAX AUTO | 5.0 | 6.3 | 7.6 | 8.9 | 10.2 | 11.5 | 12.9 | 14.2 | 15.6 | 16.9 | 18.3 |
| NDING | AUTOBRAKE 4 | 3.4 | 4.3 | 5.3 | 6.2 | 7.2 | 8.2 | 9.2 | 10.2 | 11.3 | 12.3 | 13.5 |
| ΙZ | AUTOBRAKE 3 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.5 | 6.2 | 6.9 | 7.7 | 8.4 | 9.3 |
| Ţ | AUTOBRAKE 2 | 1.9 | 2.2 | 2.5 | 2.9 | 3.2 | 3.6 | 4.0 | 4.5 | 4.9 | 5.4 | 5.9 |
| | AUTOBRAKE 1 | 1.5 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | 2.8 | 3.0 | 3.2 | 3.5 | 3.7 |

Cooling Time (Minutes)

| | ADJUSTE | ED BRA | KE EN | ERGY I | PER BR | AKE (l | MILLIO | NS OF FOOT | POUNDS) | | | |
|-----------------------|----------------------|--------|-------|--------|--------|--------|--------|------------|------------------------|--|--|--|
| | 8 & BELOW | | | | | | | | | | | |
| INFLIGHT GEAR DOWN | NO SPECIAL PROCEDURE | 1 | 2 | 4 | 5 | 7 | 7 | CAUTION | FUSE PLUG MELT ZONE | | | |
| GROUND | REQUIRED | 10 | 20 | 38 | 51 | 62 | 66 | | MELI ZONE | | | |
| BTMS | UP TO 2 | 2 | 2 | 3 | 3 | 4 | 5 | 5 TO 8 | 8 & ABOVE | | | |

Observe maximum quick turnaround limit.

Table shows energy per brake added by a single stop with all brakes operating. Energy is assumed to be equally distributed among the operating brakes. Total energy is the sum of residual energy plus energy added.

Add 0.65 million foot pounds per brake for each taxi mile.

For one brake deactivated, increase brake energy by 15 percent.

When in caution zone, wheel fuse plugs may melt. Delay takeoff and inspect after one hour. If overheat occurs after takeoff, extend gear soon for at least 8 minutes.

When in fuse plug melt zone, clear runway immediately. Unless required, do not set parking brake. Do not attempt to taxi for one hour. Tire, wheel and brake replacement may be required. If overheat occurs after takeoff, extend gear soon for at least 12 minutes.

Brake temperature monitor system (BTMS) indication on EICAS may be used to 10 to 15 minutes after airplane has come to a complete stop, or inflight with gear retracted, to determine recommended cooling schedule.

757 Flight Crew Operations Manual

Performance Inflight - QRH Engine Inoperative

Chapter PI-QRH Section 22

ENGINE INOP

Initial Max Continuous EPR Based on engine bleed for one pack on

| P | RESSURE | (| CRUISE MACH NUMBER | |
|-------|---------------|-----------|--------------------|-----------|
| ALT | TITUDE (FT) | .72 | .76 | .80 |
| | EPR | 1.56 | 1.52 | 1.48 |
| 41000 | MAX TAT (SAT) | -23 (-46) | -20 (-46) | -17 (-46) |
| | EPR CORR | 0.12 | 0.12 | 0.12 |
| | EPR | 1.56 | 1.52 | 1.48 |
| 39000 | MAX TAT (SAT) | -23 (-46) | -20 (-46) | -17 (-46) |
| | EPR CORR | 0.12 | 0.12 | 0.12 |
| | EPR | 1.57 | 1.53 | 1.49 |
| 37000 | MAX TAT (SAT) | -23 (-46) | -20 (-46) | -17 (-46) |
| | EPR CORR | 0.12 | 0.12 | 0.12 |
| | EPR | 1.54 | 1.50 | 1.46 |
| 35000 | MAX TAT (SAT) | -21 (-44) | -18 (-44) | -15 (-44) |
| | EPR CORR | 0.12 | 0.12 | 0.12 |
| | EPR | 1.49 | 1.45 | 1.42 |
| 33000 | MAX TAT (SAT) | -16 (-40) | -13 (-40) | -11 (-41) |
| | EPR CORR | 0.12 | 0.12 | 0.12 |
| | EPR | 1.44 | 1.41 | 1.38 |
| 31000 | MAX TAT (SAT) | -12 (-36) | -9 (-36) | -6 (-36) |
| | EPR CORR | 0.10 | 0.10 | 0.10 |

Decrease EPR by the EPR CORR for every 10°C above the MAX TAT shown.

FAA

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ENGINE INOP

Max Continuous EPR 41000 FT to 22000 FT Pressure Altitudes

Based on engine bleed for one pack on and anti-ice off

| PRESSU | RE ALTITUDE | | | KIAS | | | | N | ИАСН N | IUMBE | R | |
|--------|-------------|------|------|------|------|------|------|------|--------|-------|------|------|
| | (FT) | 180 | 200 | 220 | 240 | 260 | .70 | .72 | .74 | .76 | .78 | .80 |
| | EPR | | 1.57 | 1.53 | 1.47 | 1.42 | 1.57 | 1.56 | 1.54 | 1.52 | 1.50 | 1.48 |
| 41000 | MAX TAT | | -25 | -21 | -17 | -12 | -24 | -23 | -22 | -20 | -19 | -17 |
| | EPR CORR | | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | EPR | | 1.57 | 1.56 | 1.51 | 1.45 | 1.57 | 1.56 | 1.54 | 1.52 | 1.50 | 1.48 |
| 39000 | MAX TAT | | -27 | -23 | -19 | -15 | -24 | -23 | -22 | -20 | -19 | -17 |
| | EPR CORR | | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | EPR | | 1.57 | 1.57 | 1.54 | 1.49 | 1.57 | 1.57 | 1.55 | 1.53 | 1.51 | 1.49 |
| 37000 | MAX TAT | | -28 | -25 | -21 | -17 | -24 | -23 | -22 | -20 | -19 | -17 |
| | EPR CORR | | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | EPR | | 1.57 | 1.57 | 1.54 | 1.49 | 1.56 | 1.54 | 1.52 | 1.50 | 1.48 | 1.46 |
| 35000 | MAX TAT | | -28 | -24 | -21 | -17 | -22 | -21 | -19 | -18 | -16 | -15 |
| | EPR CORR | | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | EPR | | 1.57 | 1.56 | 1.52 | 1.47 | 1.51 | 1.49 | 1.47 | 1.45 | 1.44 | 1.42 |
| 33000 | MAX TAT | | -25 | -22 | -19 | -15 | -18 | -16 | -15 | -13 | -12 | -11 |
| | EPR CORR | | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| | EPR | | 1.56 | 1.53 | 1.49 | 1.45 | 1.46 | 1.44 | 1.43 | 1.41 | 1.40 | 1.38 |
| 31000 | MAX TAT | | -22 | -19 | -16 | -13 | -13 | -12 | -10 | -9 | -8 | -6 |
| | EPR CORR | | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| | EPR | | 1.56 | 1.52 | 1.48 | 1.45 | 1.44 | 1.42 | 1.40 | 1.39 | 1.37 | 1.35 |
| 29000 | MAX TAT | | -19 | -16 | -13 | -10 | -9 | -7 | -6 | -5 | -3 | -2 |
| | EPR CORR | | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | EPR | 1.57 | 1.56 | 1.53 | 1.49 | 1.46 | 1.43 | 1.41 | 1.39 | 1.37 | 1.36 | 1.34 |
| 27000 | MAX TAT | -18 | -16 | -13 | -11 | -8 | -5 | -3 | -2 | 0 | 1 | 3 |
| | EPR CORR | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | EPR | 1.57 | 1.56 | 1.53 | 1.50 | 1.47 | 1.41 | 1.40 | 1.38 | 1.36 | 1.35 | 1.33 |
| 25000 | MAX TAT | -15 | -13 | -10 | -8 | -5 | 0 | 1 | 3 | 4 | 6 | 7 |
| | EPR CORR | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | EPR | 1.57 | 1.55 | 1.53 | 1.51 | 1.48 | 1.40 | 1.38 | 1.36 | 1.35 | 1.33 | |
| 22000 | MAX TAT | -10 | -8 | -6 | -3 | -1 | 6 | 8 | 9 | 11 | 12 | |
| | EPR CORR | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | |

Decrease EPR by the EPR CORR for every 10°C above the MAX TAT shown.

EPR Adjustments for Engine Bleed

| BLEED | | | PRESSU | RE ALTITU | JDE (FT) | | |
|---------------------------|-------|-------|--------|-----------|----------|-------|-------|
| CONFIGURATION | 0 | 8000 | 8001 | 10000 | 20000 | 30000 | 40000 |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 |
| ENGINE ANTI-ICE ON | 0.00 | 0.00 | -0.03 | -0.03 | -0.03 | -0.04 | -0.07 |
| ENGINE & WING ANTI-ICE ON | -0.02 | -0.02 | -0.05 | -0.06 | -0.06 | -0.08 | -0.13 |

ENGINE INOP

Max Continuous EPR

20000 FT to Sea Level Pressure Altitudes

Based on engine bleed for one pack on and anti-ice off

| PRESSU | RE ALTITUDE | | | KIAS | | | | N | IACH N | UMBE | R | |
|--------|-------------|------|------|------|------|------|------|------|--------|------|-----|-----|
| | (FT) | 180 | 200 | 220 | 240 | 260 | .70 | .72 | .74 | .76 | .78 | .80 |
| | EPR | 1.57 | 1.55 | 1.53 | 1.51 | 1.48 | 1.39 | 1.37 | 1.36 | | | |
| 20000 | MAX TAT | -6 | -5 | -3 | 0 | 2 | 11 | 12 | 14 | | | |
| | EPR CORR | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | | | |
| | EPR | 1.55 | 1.53 | 1.51 | 1.48 | 1.46 | 1.36 | 1.34 | | | | |
| 18000 | MAX TAT | -3 | -1 | 1 | 3 | 5 | 15 | 17 | | | | |
| | EPR CORR | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | | | | |
| | EPR | 1.53 | 1.51 | 1.49 | 1.46 | 1.44 | 1.33 | | | | | |
| 16000 | MAX TAT | 0 | 2 | 4 | 6 | 8 | 19 | | | | | |
| | EPR CORR | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | |
| | EPR | 1.50 | 1.49 | 1.47 | 1.44 | 1.42 | | | | | | |
| 14000 | MAX TAT | 4 | 6 | 7 | 9 | 11 | | | | | | |
| | EPR CORR | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | | |
| | EPR | 1.48 | 1.46 | 1.45 | 1.43 | 1.40 | | | | | | |
| 12000 | MAX TAT | 8 | 9 | 11 | 12 | 14 | | | | | | |
| | EPR CORR | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | | | | | | |
| | EPR | 1.46 | 1.44 | 1.43 | 1.41 | 1.39 | | | | | | |
| 10000 | MAX TAT | 11 | 13 | 14 | 16 | 18 | | | | | | |
| | EPR CORR | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | | | | |
| | EPR | 1.40 | 1.39 | 1.33 | 1.36 | 1.35 | | | | | | |
| 5000 | MAX TAT | 20 | 21 | 23 | 24 | 26 | | | | | | |
| | EPR CORR | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | | | | | |
| | EPR | 1.35 | 1.34 | 1.30 | 1.31 | 1.30 | | | | | | |
| 1500 | MAX TAT | 27 | 28 | 29 | 30 | 32 | | | | | | |
| | EPR CORR | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | | | | | |
| | EPR | 1.33 | 1.32 | 1.30 | 1.29 | 1.28 | | | | | | |
| 0 | MAX TAT | 29 | 30 | 32 | 33 | 34 | | | | | | |
| | EPR CORR | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | | | | | | |

Decrease EPR by the EPR CORR for every 10°C above the MAX TAT shown.

EPR Adjustments for Engine Bleed

| , , | | | | | | | |
|---------------------------|-------|-------|--------|-----------|----------|-------|-------|
| BLEED | | | PRESSU | RE ALTITU | JDE (FT) | | |
| CONFIGURATION | 0 | 8000 | 8001 | 10000 | 20000 | 30000 | 40000 |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 |
| ENGINE ANTI-ICE ON | 0.00 | 0.00 | -0.03 | -0.03 | -0.03 | -0.04 | -0.07 |
| ENGINE & WING ANTI-ICE ON | -0.02 | -0.02 | -0.05 | -0.06 | -0.06 | -0.08 | -0.13 |

ENGINE INOP

MAX CONTINUOUS THRUST

Driftdown Speed/Level Off Altitude 100 ft/min residual rate of climb

Includes APU fuel burn

| WEIGHT | (1000 LB) | OPTIMUM | LEVI | EL OFF ALTITUDI | E (FT) |
|------------------------|--------------|------------------------------|-----------------------|-----------------|------------|
| START DRIFT DOWN | LEVEL OFF | DRIFTDOWN SPEED (KIAS) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 260 | 250 | 249 | 18900 | 17400 | 15500 |
| 240 | 232 | 240 | 21100 | 20100 | 18600 |
| 220 | 213 | 230 | 23300 | 22300 | 21200 |
| 200 | 193 | 219 | 25600 | 24700 | 23600 |
| 180 | 174 | 208 | 28000 | 27200 | 26200 |
| 160 | 154 | 197 | 30900 | 30000 | 29000 |
| 140 | 135 | 187 | 33800 | 33400 | 32200 |

Driftdown/LRC Cruise Range Capability **Ground to Air Miles Conversion**

| | AIR D | ISTANCE | E (NM) | | GROUND | | AIR D | ISTANCE | E (NM) | |
|------|--------|---------|---------|------|----------|------|--------|---------|----------|------|
| HE | ADWIND | COMPO | NENT (K | TS) | DISTANCE | TA | ILWIND | COMPON | NENT (KT | TS) |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 |
| 282 | 260 | 242 | 226 | 212 | 200 | 189 | 179 | 170 | 162 | 155 |
| 563 | 521 | 484 | 452 | 425 | 400 | 378 | 358 | 341 | 325 | 310 |
| 839 | 777 | 724 | 677 | 636 | 600 | 568 | 539 | 512 | 489 | 467 |
| 1110 | 1030 | 961 | 901 | 847 | 800 | 758 | 720 | 685 | 654 | 625 |
| 1379 | 1282 | 1197 | 1124 | 1058 | 1000 | 948 | 901 | 858 | 820 | 784 |
| 1647 | 1533 | 1433 | 1346 | 1269 | 1200 | 1138 | 1082 | 1032 | 986 | 944 |
| 1916 | 1784 | 1670 | 1569 | 1480 | 1400 | 1328 | 1264 | 1205 | 1152 | 1103 |
| 2186 | 2037 | 1907 | 1792 | 1691 | 1600 | 1519 | 1445 | 1378 | 1317 | 1262 |
| 2461 | 2292 | 2146 | 2017 | 1902 | 1800 | 1708 | 1625 | 1550 | 1482 | 1419 |

Driftdown/Cruise Fuel and Time

| A ID DIGT | | FUEL REQUIRED (1000 LB) | | | | | | | | | | |
|------------------|------|-------------------------|-------------|-----------|-----------|------|------------------|--|--|--|--|--|
| AIR DIST (NM) | | WEIGHT A | AT START OF | DRIFTDOWN | (1000 LB) | | TIME (HR:MIN) | | | | | |
| (1111) | 160 | 180 | 200 | 220 | 240 | 260 | (IIIX.MIIV) | | | | | |
| 200 | 2.7 | 3.0 | 3.3 | 3.5 | 3.8 | 4.1 | 0:35 | | | | | |
| 400 | 6.1 | 6.7 | 7.3 | 8.0 | 8.7 | 9.3 | 1:10 | | | | | |
| 600 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.1 | 1:42 | | | | | |
| 800 | 12.0 | 13.3 | 14.6 | 16.0 | 17.3 | 18.7 | 2:14 | | | | | |
| 1000 | 14.9 | 16.6 | 18.2 | 19.9 | 21.5 | 23.2 | 2:45 | | | | | |
| 1200 | 17.7 | 19.8 | 21.7 | 23.7 | 25.7 | 27.7 | 3:15 | | | | | |
| 1400 | 20.6 | 22.9 | 25.2 | 27.5 | 29.8 | 32.1 | 3:46 | | | | | |
| 1600 | 23.3 | 26.0 | 28.6 | 31.2 | 33.8 | 36.5 | 4:17 | | | | | |
| 1800 | 26.1 | 29.1 | 32.0 | 34.9 | 37.8 | 40.8 | 4:50 | | | | | |

Includes APU fuel burn.

Driftdown at optimum driftdown speed and cruise at Long Range Cruise speed.

Performance Inflight - QRH Engine Inoperative

757 Flight Crew Operations Manual

ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Altitude Capability 100 ft/min residual rate of climb

| WEIGHT | | PRESSURE ALTITUDE (FT) | |
|-----------|-----------------------|------------------------|------------|
| (1000 LB) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 260 | 12200 | 8100 | 5100 |
| 250 | 14700 | 10300 | 7100 |
| 240 | 16400 | 12700 | 9100 |
| 230 | 18300 | 15000 | 11200 |
| 220 | 20000 | 17400 | 13700 |
| 210 | 21200 | 19700 | 16000 |
| 200 | 22300 | 21100 | 18600 |
| 190 | 23600 | 22400 | 20700 |
| 180 | 24900 | 23700 | 22100 |
| 170 | 26200 | 25100 | 23500 |
| 160 | 27500 | 26500 | 25100 |
| 150 | 29000 | 28000 | 26600 |
| 140 | 30800 | 29500 | 28300 |
| 130 | 33100 | 31400 | 30000 |
| 120 | 35100 | 33900 | 32000 |

With engine anti-ice on, decrease altitude capability by 2600 ft.

With engine and wing anti-ice on, decrease altitude capability by 6600 ft.

ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Control

| WE | IGHT | | | P | RESSURE | ALTITUE | E (1000 F | Τ) | | |
|------|--------|-------|------|------|---------|---------|-----------|------|------|------|
| (100 | 00 LB) | 10 | 14 | 18 | 21 | 23 | 25 | 27 | 29 | 31 |
| | EPR | 1.27 | 1.34 | | | | | | | |
| 260 | MACH | .598 | .621 | | | | | | | |
| 200 | KIAS | 332 | 321 | | | | | | | |
| | FF/ENG | 10076 | 9797 | | | | | | | |
| | EPR | 1.24 | 1.30 | 1.39 | | | | | | |
| 240 | MACH | .582 | .611 | .633 | | | | | | |
| 240 | KIAS | 323 | 316 | 303 | | | | | | |
| | FF/ENG | 9361 | 9173 | 8859 | | | | | | |
| | EPR | 1.21 | 1.27 | 1.34 | 1.42 | | | | | |
| 220 | MACH | .561 | .596 | .620 | .642 | | | | | |
| 220 | KIAS | 311 | 308 | 297 | 290 | | | | | |
| | FF/ENG | 8560 | 8495 | 8158 | 8155 | | | | | |
| | EPR | 1.18 | 1.24 | 1.30 | 1.36 | 1.42 | | | | |
| 200 | MACH | .532 | .576 | .608 | .624 | .639 | | | | |
| 200 | KIAS | 295 | 297 | 291 | 281 | 277 | | | | |
| | FF/ENG | 7706 | 7770 | 7540 | 7365 | 7396 | | | | |
| | EPR | 1.15 | 1.20 | 1.26 | 1.32 | 1.36 | 1.42 | | | |
| 180 | MACH | .498 | .549 | .589 | .611 | .621 | .635 | | | |
| 100 | KIAS | 276 | 282 | 281 | 275 | 269 | 264 | | | |
| | FF/ENG | 6813 | 6942 | 6872 | 6746 | 6640 | 6629 | | | |
| | EPR | 1.13 | 1.17 | 1.22 | 1.27 | 1.31 | 1.35 | 1.40 | | |
| 160 | MACH | .473 | .511 | .561 | .590 | .606 | .618 | .630 | | |
| 100 | KIAS | 262 | 262 | 267 | 265 | 262 | 256 | 250 | | |
| | FF/ENG | 6082 | 6079 | 6107 | 6080 | 6015 | 5925 | 5872 | | |
| | EPR | 1.11 | 1.14 | 1.18 | 1.22 | 1.26 | 1.29 | 1.33 | 1.38 | 1.45 |
| 140 | MACH | .451 | .477 | .520 | .559 | .580 | .598 | .612 | .623 | .639 |
| 140 | KIAS | 249 | 245 | 247 | 251 | 250 | 247 | 243 | 237 | 233 |
| | FF/ENG | 5434 | 5286 | 5265 | 5322 | 5337 | 5280 | 5225 | 5142 | 5136 |
| | EPR | 1.09 | 1.11 | 1.14 | 1.17 | 1.20 | 1.23 | 1.27 | 1.31 | 1.36 |
| 120 | MACH | .423 | .451 | .479 | .511 | .538 | .564 | .584 | .602 | .616 |
| 120 | KIAS | 234 | 231 | 227 | 228 | 231 | 233 | 232 | 229 | 224 |
| | FF/ENG | 4765 | 4638 | 4460 | 4477 | 4527 | 4561 | 4555 | 4504 | 4426 |

ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Diversion Fuel and Time Ground to Air Miles Conversion

| | AIR D | ISTANCE | (NM) | | GROUND | | AIR D | ISTANCE | E (NM) | |
|------|--------|---------|---------|------|----------|------|--------|---------|----------|------|
| HE | ADWIND | COMPO | NENT (K | TS) | DISTANCE | TA | ILWIND | COMPON | NENT (K7 | TS) |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 |
| 286 | 264 | 244 | 227 | 213 | 200 | 191 | 182 | 174 | 167 | 160 |
| 571 | 527 | 488 | 455 | 426 | 400 | 381 | 364 | 348 | 334 | 322 |
| 859 | 792 | 733 | 683 | 639 | 600 | 572 | 547 | 524 | 502 | 483 |
| 1148 | 1059 | 979 | 911 | 853 | 800 | 763 | 729 | 698 | 669 | 644 |
| 1440 | 1326 | 1226 | 1140 | 1066 | 1000 | 954 | 912 | 873 | 837 | 804 |
| 1733 | 1595 | 1473 | 1370 | 1280 | 1200 | 1144 | 1093 | 1046 | 1003 | 965 |
| 2029 | 1866 | 1721 | 1599 | 1494 | 1400 | 1335 | 1275 | 1220 | 1170 | 1125 |
| 2325 | 2137 | 1970 | 1830 | 1708 | 1600 | 1526 | 1457 | 1394 | 1336 | 1284 |
| 2623 | 2409 | 2220 | 2061 | 1923 | 1800 | 1716 | 1638 | 1567 | 1502 | 1443 |

Reference Fuel and Time Required at Check Point

| | - | | | _ | | | | | | |
|-------------|-----------|----------|-----------|----------|-----------|-----------|-----------|----------|-----------|----------|
| A ID | | | | PRESS | URE ALT | ITUDE (10 | 00 FT) | | | |
| AIR DIST | 1 | 0 | 1 | 4 | 1 | 8 | 2 | 2 | 2 | 8 |
| (NM) | FUEL | TIME | FUEL | TIME | FUEL | TIME | FUEL | TIME | FUEL | TIME |
| , | (1000 LB) | (HR:MIN) | (1000 LB) | (HR:MIN) | (1000 LB) | (HR:MIN) | (1000 LB) | (HR:MIN) | (1000 LB) | (HR:MIN) |
| 200 | 4.3 | 0:41 | 3.8 | 0:39 | 3.4 | 0:38 | 3.1 | 0:37 | 2.7 | 0:35 |
| 400 | 8.9 | 1:17 | 8.2 | 1:12 | 7.4 | 1:10 | 6.9 | 1:09 | 6.5 | 1:04 |
| 600 | 13.5 | 1:53 | 12.4 | 1:46 | 11.4 | 1:42 | 10.7 | 1:40 | 10.2 | 1:33 |
| 800 | 18.0 | 2:30 | 16.7 | 2:20 | 15.4 | 2:15 | 14.4 | 2:12 | 13.9 | 2:02 |
| 1000 | 22.4 | 3:08 | 20.8 | 2:55 | 19.3 | 2:47 | 18.1 | 2:44 | 17.5 | 2:31 |
| 1200 | 26.8 | 3:46 | 24.9 | 3:30 | 23.1 | 3:20 | 21.8 | 3:16 | 21.0 | 3:01 |
| 1400 | 31.2 | 4:25 | 29.0 | 4:06 | 27.0 | 3:54 | 25.4 | 3:48 | 24.5 | 3:31 |
| 1600 | 35.5 | 5:04 | 33.1 | 4:42 | 30.7 | 4:27 | 29.0 | 4:20 | 27.9 | 4:02 |
| 1800 | 39.7 | 5:43 | 37.0 | 5:18 | 34.5 | 5:01 | 32.5 | 4:52 | 31.3 | 4:32 |

Fuel Required Adjustment (1000 LB)

| REFERENCE FUEL REQUIRED | | WEIGH | T AT CHEC | K POINT (10 | 000 LB) | |
|-------------------------|------|-------|-----------|-------------|---------|------|
| (1000 LB) | 160 | 180 | 200 | 220 | 240 | 260 |
| 5 | -0.4 | -0.2 | 0.0 | 0.4 | 0.8 | 2.0 |
| 10 | -0.9 | -0.5 | 0.0 | 0.8 | 1.8 | 3.9 |
| 15 | -1.4 | -0.7 | 0.0 | 1.3 | 2.7 | 5.6 |
| 20 | -1.9 | -1.0 | 0.0 | 1.7 | 3.6 | 7.2 |
| 25 | -2.4 | -1.2 | 0.0 | 2.2 | 4.5 | 8.5 |
| 30 | -2.9 | -1.5 | 0.0 | 2.6 | 5.4 | 9.7 |
| 35 | -3.4 | -1.7 | 0.0 | 3.0 | 6.2 | 10.7 |
| 40 | -3.9 | -2.0 | 0.0 | 3.4 | 7.0 | 11.5 |
| 45 | -4.4 | -2.2 | 0.0 | 3.8 | 7.8 | 12.0 |

Includes APU fuel burn.

FAA

757 Flight Crew Operations Manual

ENGINE INOP

MAX CONTINUOUS THRUST

Holding Flaps Up

| W | EIGHT | | <u> </u> | PRESSU | JRE ALTITU | DE (FT) | | |
|-----|---------|------|----------|--------|------------|---------|-------|-------|
| (10 | 000 LB) | 1500 | 5000 | 10000 | 15000 | 20000 | 25000 | 30000 |
| | EPR | 1.16 | 1.20 | 1.26 | 1.35 | | | |
| 260 | KIAS | 241 | 241 | 242 | 243 | | | |
| | FF/ENG | 8460 | 8430 | 8430 | 8440 | | | |
| | EPR | 1.15 | 1.18 | 1.23 | 1.31 | 1.43 | | |
| 240 | KIAS | 231 | 232 | 233 | 234 | 235 | | |
| | FF/ENG | 7800 | 7760 | 7730 | 7710 | 7910 | | |
| | EPR | 1.13 | 1.16 | 1.21 | 1.27 | 1.38 | | |
| 220 | KIAS | 221 | 222 | 223 | 224 | 225 | | |
| | FF/ENG | 7140 | 7100 | 7050 | 7020 | 7100 | | |
| | EPR | 1.12 | 1.14 | 1.18 | 1.24 | 1.33 | 1.47 | |
| 200 | KIAS | 213 | 213 | 213 | 213 | 214 | 215 | |
| | FF/ENG | 6590 | 6450 | 6390 | 6320 | 6360 | 6640 | |
| | EPR | 1.10 | 1.12 | 1.15 | 1.21 | 1.28 | 1.39 | |
| 180 | KIAS | 205 | 205 | 205 | 205 | 205 | 205 | |
| | FF/ENG | 6020 | 5870 | 5760 | 5670 | 5690 | 5780 | |
| | EPR | 1.08 | 1.10 | 1.13 | 1.17 | 1.23 | 1.32 | 1.48 |
| 160 | KIAS | 197 | 197 | 197 | 197 | 197 | 197 | 197 |
| | FF/ENG | 5420 | 5330 | 5130 | 5040 | 5020 | 5070 | 5270 |
| | EPR | 1.07 | 1.08 | 1.11 | 1.14 | 1.19 | 1.26 | 1.38 |
| 140 | KIAS | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 4820 | 4740 | 4560 | 4430 | 4400 | 4420 | 4480 |
| | EPR | 1.06 | 1.07 | 1.09 | 1.11 | 1.15 | 1.21 | 1.30 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 4230 | 4160 | 4000 | 3860 | 3800 | 3800 | 3870 |

This table includes 5% additional fuel for holding in a racetrack pattern.

757 Flight Crew Operations Manual

Performance Inflight - QRH Gear Down

Chapter PI-QRH Section 23

GEAR DOWN

210 KIAS Max Climb EPR

Based on engine bleed for packs on and anti-ice off

| _ | | 0 | | | _ | | | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|--------|--------|------|------|------|------|------|
| TAT | | | | |] | PRESS | URE A | LTITU | DE (10 | 000 FT |) | | | | |
| (°C) | 0 | 5 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| 55 | 1.18 | 1.17 | 1.16 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 | 1.11 | 1.10 | 1.09 | 1.07 | 1.06 | 1.04 | 1.03 |
| 50 | 1.19 | 1.19 | 1.18 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.13 | 1.12 | 1.11 | 1.09 | 1.08 | 1.06 | 1.05 |
| 45 | 1.21 | 1.21 | 1.20 | 1.19 | 1.19 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.12 | 1.11 | 1.10 | 1.08 | 1.07 |
| 40 | 1.23 | 1.22 | 1.21 | 1.21 | 1.20 | 1.20 | 1.19 | 1.18 | 1.17 | 1.16 | 1.14 | 1.13 | 1.12 | 1.10 | 1.09 |
| 35 | 1.25 | 1.24 | 1.23 | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.17 | 1.15 | 1.14 | 1.12 | 1.11 |
| 30 | 1.26 | 1.26 | 1.25 | 1.25 | 1.24 | 1.24 | 1.23 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.16 | 1.15 | 1.14 |
| 25 | 1.26 | 1.29 | 1.28 | 1.27 | 1.27 | 1.26 | 1.25 | 1.25 | 1.24 | 1.22 | 1.21 | 1.20 | 1.19 | 1.17 | 1.16 |
| 20 | 1.26 | 1.30 | 1.30 | 1.30 | 1.29 | 1.29 | 1.28 | 1.27 | 1.26 | 1.25 | 1.24 | 1.23 | 1.21 | 1.20 | 1.19 |
| 15 | 1.26 | 1.30 | 1.33 | 1.33 | 1.32 | 1.31 | 1.31 | 1.30 | 1.29 | 1.28 | 1.27 | 1.25 | 1.24 | 1.23 | 1.22 |
| 10 | 1.26 | 1.30 | 1.34 | 1.35 | 1.35 | 1.34 | 1.34 | 1.33 | 1.32 | 1.31 | 1.30 | 1.28 | 1.27 | 1.26 | 1.25 |
| 5 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.38 | 1.37 | 1.36 | 1.35 | 1.34 | 1.33 | 1.32 | 1.30 | 1.29 | 1.28 |
| 0 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.40 | 1.39 | 1.37 | 1.36 | 1.35 | 1.34 | 1.33 | 1.32 |
| -5 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.42 | 1.42 | 1.41 | 1.40 | 1.39 | 1.38 | 1.37 | 1.36 |
| -10 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.42 | 1.44 | 1.46 | 1.45 | 1.44 | 1.43 | 1.42 | 1.41 |
| -15 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 1.49 | 1.48 | 1.47 | 1.47 |
| -20 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 1.53 | 1.54 | 1.53 |
| -25 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 1.53 | 1.56 | 1.57 |
| -30 | 1.26 | 1.30 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 1.53 | 1.56 | 1.57 |

EPR Adjustments for Engine Bleeds

| BLEED | | PRESSURE ALTITUDE (1000 FT) | | | | | | | | | | | |
|---------------------------|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CONFIGURATION | 0 | 5 | 10 | 12 | 16 | 18 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| PACKS OFF | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| ENGINE ANTI-ICE ON | 0.00 | 0.00 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.04 | -0.04 | -0.04 | -0.04 | -0.05 | -0.05 |
| ENGINE & WING ANTI-ICE ON | -0.02 | -0.02 | -0.05 | -0.06 | -0.06 | -0.06 | -0.06 | -0.07 | -0.07 | -0.08 | -0.08 | -0.09 | -0.10 |

Long Range Cruise Altitude Capability

| - 0 | | • | |
|-----------|-----------------------|-----------------------|------------|
| WEIGHT | | PRESSURE ALTITUDE (FT |) |
| (1000 LB) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C |
| 260 | 15500 | 13600 | 10700 |
| 250 | 17200 | 15100 | 12800 |
| 240 | 18900 | 16900 | 14800 |
| 230 | 20700 | 18600 | 16500 |
| 220 | 22600 | 20300 | 18400 |
| 210 | 24800 | 22100 | 20200 |
| 200 | 27000 | 24100 | 22100 |
| 190 | 29200 | 26300 | 24000 |
| 180 | 31500 | 28700 | 26000 |
| 170 | 33300 | 31300 | 28300 |
| 160 | 34600 | 33600 | 31100 |
| 150 | 35700 | 35500 | 33500 |
| 140 | 36900 | 36900 | 35600 |
| 130 | 38200 | 38100 | 37000 |
| 120 | 39500 | 39400 | 38200 |

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757 Flight Crew Operations Manual

GEAR DOWN

Long Range Cruise Control

| WE | EIGHT | | | | PRE | SSURE . | ALTITU | DE (1000 | FT) | | | |
|------|--------|------|------|------|------|---------|--------|----------|------|------|------|------|
| (100 | 00 LB) | 10 | 14 | 18 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 |
| | EPR | 1.20 | 1.25 | | | | | | | | | |
| 260 | MACH | .451 | .483 | | | | | | | | | |
| 260 | KIAS | 251 | 250 | | | | | | | | | |
| | FF/ENG | 7079 | 7051 | | | | | | | | | |
| | EPR | 1.18 | 1.22 | 1.29 | | | | | | | | |
| 240 | MACH | .434 | .466 | .506 | | | | | | | | |
| 240 | KIAS | 242 | 241 | 242 | | | | | | | | |
| | FF/ENG | 6515 | 6477 | 6483 | | | | | | | | |
| | EPR | 1.16 | 1.20 | 1.25 | 1.31 | | | | | | | |
| 220 | MACH | .417 | .449 | .482 | .517 | | | | | | | |
| 220 | KIAS | 232 | 232 | 231 | 233 | | | | | | | |
| | FF/ENG | 5955 | 5928 | 5832 | 5934 | | | | | | | |
| | EPR | 1.14 | 1.17 | 1.22 | 1.26 | 1.30 | 1.35 | 1.40 | | | | |
| 200 | MACH | .400 | .430 | .462 | .489 | .514 | .536 | .553 | | | | |
| 200 | KIAS | 222 | 222 | 221 | 221 | 223 | 223 | 221 | | | | |
| | FF/ENG | 5409 | 5371 | 5282 | 5290 | 5363 | 5394 | 5396 | | | | |
| | EPR | 1.12 | 1.15 | 1.19 | 1.23 | 1.26 | 1.30 | 1.35 | 1.40 | 1.47 | | |
| 180 | MACH | .383 | .409 | .441 | .466 | .484 | .508 | .532 | .550 | .569 | | |
| 100 | KIAS | 213 | 211 | 210 | 210 | 209 | 211 | 212 | 210 | 208 | | |
| | FF/ENG | 4907 | 4821 | 4741 | 4714 | 4722 | 4787 | 4828 | 4831 | 4854 | | |
| | EPR | 1.10 | 1.13 | 1.16 | 1.19 | 1.22 | 1.25 | 1.29 | 1.33 | 1.38 | 1.45 | 1.55 |
| 160 | MACH | .365 | .389 | .418 | .442 | .460 | .477 | .500 | .525 | .545 | .564 | .589 |
| 100 | KIAS | 203 | 200 | 199 | 199 | 198 | 198 | 199 | 200 | 199 | 197 | 197 |
| | FF/ENG | 4431 | 4304 | 4198 | 4183 | 4176 | 4162 | 4210 | 4258 | 4246 | 4279 | 4440 |
| | EPR | 1.08 | 1.11 | 1.13 | 1.16 | 1.18 | 1.21 | 1.24 | 1.27 | 1.32 | 1.37 | 1.43 |
| 140 | MACH | .344 | .369 | .396 | .420 | .437 | .456 | .475 | .495 | .517 | .539 | .563 |
| 110 | KIAS | 191 | 190 | 188 | 188 | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 3928 | 3828 | 3705 | 3692 | 3694 | 3693 | 3696 | 3713 | 3704 | 3717 | 3780 |
| | EPR | 1.07 | 1.09 | 1.11 | 1.13 | 1.15 | 1.17 | 1.20 | 1.23 | 1.26 | 1.30 | 1.35 |
| 120 | MACH | .323 | .349 | .377 | .400 | .417 | .434 | .453 | .472 | .493 | .514 | .537 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 3456 | 3380 | 3325 | 3294 | 3291 | 3288 | 3287 | 3287 | 3267 | 3258 | 3258 |

DO NOT USE FOR FLIGHT Performance Inflight - QRH Gear Down

757 Flight Crew Operations Manual

GEAR DOWN

Long Range Cruise Enroute Fuel and Time Ground to Air Miles Conversion

| | AIR D | ISTANCE | (NM) | | GROUND | | AIR D | ISTANCE | E (NM) | |
|------|--------|---------|---------|------|----------|------|--------|---------|----------|------|
| HE | ADWIND | COMPO | NENT (K | TS) | DISTANCE | TA | ILWIND | COMPON | NENT (KT | TS) |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 |
| 329 | 293 | 262 | 237 | 217 | 200 | 188 | 178 | 168 | 160 | 153 |
| 664 | 590 | 527 | 477 | 436 | 400 | 377 | 357 | 338 | 321 | 306 |
| 1002 | 889 | 792 | 716 | 654 | 600 | 566 | 534 | 506 | 481 | 459 |
| 1345 | 1192 | 1060 | 957 | 873 | 800 | 754 | 712 | 675 | 641 | 612 |
| 1693 | 1497 | 1330 | 1199 | 1092 | 1000 | 943 | 890 | 843 | 801 | 764 |
| 2045 | 1805 | 1601 | 1441 | 1312 | 1200 | 1131 | 1067 | 1010 | 960 | 915 |
| 2404 | 2118 | 1875 | 1685 | 1532 | 1400 | 1318 | 1244 | 1178 | 1118 | 1066 |
| 2768 | 2434 | 2150 | 1930 | 1753 | 1600 | 1506 | 1420 | 1344 | 1276 | 1216 |
| 3140 | 2756 | 2429 | 2177 | 1975 | 1800 | 1693 | 1597 | 1510 | 1432 | 1365 |

Reference Fuel and Time Required at Check Point

| A ID | | | | PRESS | URE ALT | JRE ALTITUDE (1000 FT) | | | | | | |
|-------------|-------------------|------------------|-------------------|------------------|-------------------|------------------------|-------------------|------------------|-------------------|------------------|--|--|
| AIR DIST | 10 | | 14 | | 18 | | 22 | | 28 | | | |
| (NM) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | | |
| 200 | 7.9 | 0:51 | 7.2 | 0:49 | 6.5 | 0:47 | 6.0 | 0:45 | 5.3 | 0:42 | | |
| 400 | 16.2 | 1:40 | 15.0 | 1:35 | 13.7 | 1:30 | 12.8 | 1:25 | 11.6 | 1:19 | | |
| 600 | 24.2 | 2:29 | 22.5 | 2:21 | 20.7 | 2:14 | 19.4 | 2:07 | 17.7 | 1:56 | | |
| 800 | 32.1 | 3:19 | 29.9 | 3:09 | 27.6 | 2:58 | 25.9 | 2:48 | 23.7 | 2:33 | | |
| 1000 | 39.8 | 4:10 | 37.1 | 3:57 | 34.3 | 3:43 | 32.2 | 3:31 | 29.6 | 3:11 | | |
| 1200 | 47.3 | 5:02 | 44.1 | 4:46 | 40.9 | 4:30 | 38.4 | 4:14 | 35.4 | 3:50 | | |
| 1400 | 54.7 | 5:55 | 51.0 | 5:36 | 47.3 | 5:17 | 44.5 | 4:58 | 41.0 | 4:29 | | |
| 1600 | 61.9 | 6:49 | 57.8 | 6:27 | 53.6 | 6:04 | 50.4 | 5:43 | 46.5 | 5:09 | | |
| 1800 | 69.0 | 7:45 | 64.4 | 7:19 | 59.7 | 6:53 | 56.2 | 6:28 | 51.9 | 5:50 | | |

Fuel Required Adjustment (1000 LB)

| REFERENCE FUEL REQUIRED | WEIGHT AT CHECK POINT (1000 LB) | | | | | | | | |
|-------------------------|---------------------------------|------|-----|-----|-----|------|--|--|--|
| (1000 LB) | 160 | 180 | 200 | 220 | 240 | 260 | | | |
| 10 | -0.9 | -0.5 | 0.0 | 0.8 | 1.7 | 2.6 | | | |
| 20 | -2.0 | -1.0 | 0.0 | 1.6 | 3.4 | 5.3 | | | |
| 30 | -3.0 | -1.5 | 0.0 | 2.3 | 5.0 | 7.8 | | | |
| 40 | -4.1 | -2.0 | 0.0 | 3.0 | 6.5 | 10.1 | | | |
| 50 | -5.1 | -2.6 | 0.0 | 3.6 | 7.8 | 12.2 | | | |
| 60 | -6.2 | -3.1 | 0.0 | 4.2 | 8.9 | 14.1 | | | |
| 70 | -7.2 | -3.6 | 0.0 | 4.8 | 9.9 | 15.8 | | | |

Descent at VREF30+80

| PRESSURE ALTITUDE (1000 FT) | 5 | 10 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 35 |
|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DISTANCE (NM) | 12 | 22 | 31 | 35 | 39 | 42 | 46 | 50 | 54 | 58 | 62 | 66 | 70 |
| TIME (MINUTES) | 7 | 9 | 12 | 13 | 14 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 |

757 Flight Crew Operations Manual

GEAR DOWN

Holding Flaps Up

| W | EIGHT | | | PRESSU | JRE ALTITU | DE (FT) | | |
|-----|---------|------|------|--------|------------|---------|-------|-------|
| (10 | 000 LB) | 1500 | 5000 | 10000 | 15000 | 20000 | 25000 | 30000 |
| | EPR | 1.12 | 1.14 | 1.19 | 1.25 | | | |
| 260 | KIAS | 235 | 235 | 235 | 235 | | | |
| | FF/ENG | 7030 | 6940 | 6900 | 6850 | | | |
| | EPR | 1.11 | 1.13 | 1.17 | 1.22 | 1.31 | | |
| 240 | KIAS | 228 | 228 | 228 | 228 | 228 | | |
| | FF/ENG | 6590 | 6430 | 6380 | 6320 | 6370 | | |
| | EPR | 1.09 | 1.11 | 1.15 | 1.20 | 1.27 | | |
| 220 | KIAS | 220 | 220 | 220 | 220 | 220 | | |
| | FF/ENG | 6130 | 5990 | 5880 | 5800 | 5830 | | |
| | EPR | 1.08 | 1.10 | 1.13 | 1.17 | 1.24 | 1.33 | |
| 200 | KIAS | 213 | 213 | 213 | 213 | 213 | 213 | |
| | FF/ENG | 5660 | 5570 | 5390 | 5310 | 5300 | 5360 | |
| | EPR | 1.07 | 1.09 | 1.11 | 1.15 | 1.21 | 1.29 | 1.42 |
| 180 | KIAS | 205 | 205 | 205 | 205 | 205 | 205 | 205 |
| | FF/ENG | 5210 | 5110 | 4930 | 4830 | 4810 | 4850 | 4940 |
| | EPR | 1.06 | 1.07 | 1.10 | 1.13 | 1.18 | 1.25 | 1.35 |
| 160 | KIAS | 197 | 197 | 197 | 197 | 197 | 197 | 197 |
| | FF/ENG | 4740 | 4670 | 4490 | 4370 | 4340 | 4350 | 4370 |
| | EPR | 1.05 | 1.06 | 1.08 | 1.11 | 1.15 | 1.21 | 1.29 |
| 140 | KIAS | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 4290 | 4220 | 4060 | 3930 | 3880 | 3880 | 3900 |
| | EPR | 1.04 | 1.05 | 1.07 | 1.09 | 1.12 | 1.17 | 1.24 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 3850 | 3770 | 3630 | 3500 | 3460 | 3450 | 3460 |

This table includes 5% additional fuel for holding in a racetrack pattern.

757 Flight Crew Operations Manual

Performance Inflight - QRH Gear Down, Engine Inop Chapter PI-QRH Section 24



MAX CONTINUOUS THRUST

Driftdown Speed/Level Off Altitude 100 ft/min residual rate of climb Includes APU fuel burn

| WEIGHT | (1000 LB) | OPTIMUM | LEVEL OFF ALTITUDE (FT) | | | | |
|--------------------|--------------|------------------------------|-------------------------|------------|------------|--|--|
| START DRIFTDOWN | LEVEL OFF | DRIFTDOWN SPEED (KIAS) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C | | |
| 220 | 208 | 218 | 6000 | 2700 | | | |
| 200 | 190 | 210 | 10000 | 7800 | 5300 | | |
| 180 | 172 | 203 | 13700 | 11900 | 9700 | | |
| 160 | 153 | 195 | 17300 | 15800 | 14100 | | |
| 140 | 134 | 187 | 20600 | 19700 | 18300 | | |

Long Range Cruise Altitude Capability 100 ft/min residual rate of climb

| WEIGHT | PRESSURE ALTITUDE (FT) | | | | | | | |
|-----------|------------------------|------------|------------|--|--|--|--|--|
| (1000 LB) | ISA + 10°C & BELOW | ISA + 15°C | ISA + 20°C | | | | | |
| 200 | 6200 | | | | | | | |
| 190 | 9100 | 5700 | | | | | | |
| 180 | 11800 | 9000 | 5800 | | | | | |
| 170 | 14100 | 12000 | 8800 | | | | | |
| 160 | 16000 | 14400 | 12200 | | | | | |
| 150 | 17900 | 16400 | 14600 | | | | | |
| 140 | 19800 | 18500 | 16800 | | | | | |
| 130 | 21400 | 20500 | 19200 | | | | | |
| 120 | 22900 | 22000 | 21000 | | | | | |

With engine bleed for packs off, increase altitude capability by 100 ft.

With engine anti-ice on, decrease altitude capability by 5100 ft.

With engine and wing anti-ice on, decrease altitude capability by 8900 ft.

May 19, 2009 D632N001-200 PI-QRH.24.1

¹DO NOT USE FOR FLIGHT

757 Flight Crew Operations Manual

GEAR DOWN ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Control

| WE | EIGHT | | | PRES | SURE ALT | ITUDE (100 | 0 FT) | | |
|------|--------|-------|-------|------|----------|------------|-------|------|------|
| (100 | 00 LB) | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| | EPR | 1.36 | 1.40 | | | | | | |
| 200 | MACH | .368 | .378 | | | | | | |
| 200 | KIAS | 220 | 218 | | | | | | |
| | FF/ENG | 10640 | 10565 | | | | | | |
| | EPR | 1.32 | 1.35 | 1.39 | 1.43 | | | | |
| 180 | MACH | .353 | .364 | .374 | .385 | | | | |
| 100 | KIAS | 211 | 210 | 208 | 206 | | | | |
| | FF/ENG | 9622 | 9548 | 9443 | 9407 | | | | |
| | EPR | 1.27 | 1.30 | 1.33 | 1.37 | 1.41 | 1.47 | | |
| 160 | MACH | .334 | .346 | .358 | .369 | .382 | .397 | | |
| 100 | KIAS | 200 | 199 | 199 | 197 | 197 | 197 | | |
| | FF/ENG | 8498 | 8488 | 8450 | 8352 | 8379 | 8418 | | |
| | EPR | 1.23 | 1.25 | 1.28 | 1.31 | 1.35 | 1.40 | 1.45 | 1.52 |
| 140 | MACH | .315 | .327 | .339 | .352 | .366 | .380 | .396 | .412 |
| 140 | KIAS | 188 | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| | FF/ENG | 7481 | 7445 | 7432 | 7423 | 7423 | 7375 | 7448 | 7644 |
| | EPR | 1.19 | 1.21 | 1.24 | 1.26 | 1.30 | 1.33 | 1.37 | 1.42 |
| 120 | MACH | .300 | .311 | .323 | .335 | .349 | .362 | .377 | .392 |
| 120 | KIAS | 179 | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| | FF/ENG | 6612 | 6590 | 6559 | 6520 | 6536 | 6457 | 6465 | 6502 |

GEAR DOWN ENGINE INOP

MAX CONTINUOUS THRUST

Long Range Cruise Diversion Fuel and Time Ground to Air Miles Conversion

| | AIR D | ISTANCE | (NM) | | GROUND | | AIR D | ISTANCE | E (NM) | |
|------|--------------------------|---------|------|-----|--------|-----|--------|---------|----------|-----|
| HE | HEADWIND COMPONENT (KTS) | | | | | TA | ILWIND | COMPON | NENT (KT | TS) |
| 100 | 80 | 60 | 40 | 20 | (NM) | 20 | 40 | 60 | 80 | 100 |
| 169 | 149 | 132 | 119 | 109 | 100 | 93 | 88 | 83 | 78 | 75 |
| 343 | 302 | 267 | 240 | 219 | 200 | 187 | 175 | 165 | 156 | 148 |
| 518 | 455 | 402 | 361 | 328 | 300 | 281 | 263 | 247 | 234 | 222 |
| 694 | 610 | 538 | 483 | 438 | 400 | 374 | 350 | 329 | 311 | 295 |
| 872 | 765 | 674 | 604 | 548 | 500 | 467 | 438 | 411 | 388 | 368 |
| 1051 | 921 | 811 | 726 | 658 | 600 | 560 | 524 | 492 | 464 | 440 |
| 1232 | 1078 | 948 | 848 | 769 | 700 | 653 | 611 | 574 | 541 | 513 |
| 1415 | 1237 | 1087 | 971 | 879 | 800 | 746 | 698 | 655 | 617 | 585 |

Reference Fuel and Time Required at Check Point

| A ID | | PRESSURE ALTITUDE (1000 FT) | | | | | | | | | | | |
|-------------|-------------------|-----------------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|--|--|--|--|--|
| AIR DIST | (| 5 | 1 | 0 | 1 | 4 | 18 | | | | | | |
| (NM) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | FUEL (1000 LB) | TIME (HR:MIN) | | | | | |
| 100 | 4.3 | 0:29 | 3.8 | 0:28 | 3.4 | 0:27 | 3.2 | 0:26 | | | | | |
| 200 | 8.8 | 0:54 | 8.0 | 0:53 | 7.6 | 0:51 | 7.3 | 0:47 | | | | | |
| 300 | 13.2 | 1:20 | 12.2 | 1:17 | 11.6 | 1:14 | 11.3 | 1:09 | | | | | |
| 400 | 17.6 | 1:46 | 16.3 | 1:42 | 15.6 | 1:38 | 15.2 | 1:31 | | | | | |
| 500 | 21.9 | 2:12 | 20.4 | 2:07 | 19.5 | 2:02 | 19.1 | 1:53 | | | | | |
| 600 | 26.1 | 2:39 | 24.4 | 2:32 | 23.3 | 2:26 | 22.9 | 2:16 | | | | | |
| 700 | 30.4 | 3:06 | 28.4 | 2:58 | 27.1 | 2:50 | 26.6 | 2:39 | | | | | |
| 800 | 34.5 | 3:33 | 32.3 | 3:23 | 30.9 | 3:15 | 30.3 | 3:02 | | | | | |

Fuel Required Adjustment (1000 LB)

| REFERENCE FUEL REQUIRED | WEIGHT AT CHECK POINT (1000 LB) | | | | | | | | |
|-------------------------|---------------------------------|------|-----|-----|-----|--|--|--|--|
| (1000 LB) | 160 | 180 | 200 | 220 | 240 | | | | |
| 5 | -0.5 | -0.2 | 0.0 | 0.4 | 1.0 | | | | |
| 10 | -1.1 | -0.5 | 0.0 | 0.8 | 2.0 | | | | |
| 15 | -1.6 | -0.8 | 0.0 | 1.3 | 3.0 | | | | |
| 20 | -2.2 | -1.1 | 0.0 | 1.7 | 3.9 | | | | |
| 25 | -2.8 | -1.4 | 0.0 | 2.2 | 4.8 | | | | |
| 30 | -3.3 | -1.6 | 0.0 | 2.7 | 5.7 | | | | |
| 35 | -3.9 | -1.9 | 0.0 | 3.1 | 6.5 | | | | |

Includes APU fuel burn.



MAX CONTINUOUS THRUST

Holding Flaps Up

| W | EIGHT | | PRESSURE A | LTITUDE (FT) | |
|-----|---------|-------|------------|--------------|-------|
| (10 | 000 LB) | 1500 | 5000 | 10000 | 15000 |
| | EPR | 1.31 | 1.37 | | |
| 220 | KIAS | 220 | 220 | | |
| | FF/ENG | 11760 | 11740 | | |
| | EPR | 1.27 | 1.33 | | |
| 200 | KIAS | 213 | 213 | | |
| | FF/ENG | 10730 | 10720 | | |
| | EPR | 1.24 | 1.29 | 1.38 | |
| 180 | KIAS | 205 | 205 | 205 | |
| | FF/ENG | 9780 | 9740 | 9730 | |
| | EPR | 1.21 | 1.25 | 1.33 | 1.44 |
| 160 | KIAS | 197 | 197 | 197 | 197 |
| | FF/ENG | 8850 | 8780 | 8750 | 8760 |
| | EPR | 1.18 | 1.22 | 1.28 | 1.37 |
| 140 | KIAS | 188 | 188 | 188 | 188 |
| | FF/ENG | 7910 | 7870 | 7800 | 7730 |
| | EPR | 1.15 | 1.18 | 1.24 | 1.31 |
| 120 | KIAS | 179 | 179 | 179 | 179 |
| | FF/ENG | 6970 | 6950 | 6890 | 6790 |

This table includes 5% additional fuel for holding in a racetrack pattern.

757 Flight Crew Operations Manual

Performance Inflight - QRH Text Chapter PI-QRH Section 25

Introduction

This chapter contains information to supplement performance data from the Flight Management Computer (FMC). In addition, sufficient inflight data is provided to complete a flight with the FMC inoperative. In the event of conflict between data presented in this chapter and that contained in the approved Airplane Flight Manual, the Flight Manual shall always take precedence.

General

Flight with Unreliable Airspeed / Turbulent Air Penetration

Pitch attitude and average EPR information is provided for use in all phases of flight in the event of unreliable airspeed/Mach indications resulting from blocking or freezing of the pitot system. Loss of radome or turbulent air may also cause unreliable airspeed/Mach indications. The cruise table in this section may also be used for turbulent air penetration.

Pitch attitude is shown in bold type for emphasis since altitude and/or vertical speed indications may also be unreliable.

Max Climb EPR

This table shows Max Climb EPR for a 250/290/.78 climb speed schedule, normal engine bleed for packs on and anti-ice off. Enter the table with airport pressure altitude and TAT and read EPR. EPR adjustments are shown for packs off and anti-ice operation.

VREF

The Reference Speed table contains flaps 30, 25 and 20 landing speeds for a given weight.

Advisory Information

Normal Configuration Landing Distance

Tables are provided as advisory information for normal configuration landing distance on dry runways and slippery runways with good, medium, and poor reported braking action. These values are actual landing distances and do not include the 1.67 regulatory factor. Therefore, they cannot be used to determine the dispatch required landing field length.

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To use these tables, determine the reference landing distance for the selected braking configuration. Then adjust the reference distance for landing weight, altitude, wind, slope, temperature, approach speed, and the number of operative thrust reversers to obtain the actual landing distance.

When landing on slippery runways or runways contaminated with ice, snow, slush, or standing water, the reported braking action must be considered. If the surface is affected by water, snow, or ice and the braking action is reported as "good", conditions should not be expected to be as good as on clean, dry runways. The value "good" is comparative and is intended to mean that airplanes should not experience braking or directional control difficulties when landing. The performance level used to calculate the "good" data is consistent with wet runway testing done on early Boeing jets. The performance level used to calculate "poor" data reflects runways covered with wet ice.

Use of the autobrake system commands the airplane to a constant deceleration rate. In some conditions, such as a runway with "poor" braking action, the airplane may not be able to achieve these deceleration rates. In these cases, runway slope and inoperative reversers influence the stopping distance. Since it cannot be determined quickly when this becomes a factor, it is conservative to add the effects of slope and inoperative reversers when using the autobrake system.

Non-normal Configuration Landing Distance

Advisory information is provided to support non-normal configurations that affect the landing performance of the airplane. Landing distances and adjustments are provided for dry runways and runways with good, medium, and poor reported braking action.

Enter the table with the applicable non-normal configuration and read the normal approach speed. The reference landing distance is a reference distance from 50 ft above the threshold to stop based on a reference landing weight and speed at sea level, zero wind, and zero slope. Subsequent columns provide adjustments for off-reference landing weight, altitude, wind, slope, and speed conditions. Each adjustment is independently added to the reference landing distance. Landing distance includes the effects of max manual braking and reverse thrust.

Recommeded Brake Cooling Schedule

Advisory information is provided to assist in avoiding the problems associated with hot brakes. For normal operation, most landings are at weights below the AFM quick turnaround limit weight.

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Use of the recommended cooling schedule will help avoid brake overheat and fuse plug problems that could result from repeated landings at short time intervals or a rejected takeoff.

Enter the Recommended Brake Cooling Schedule table with the airplane weight and brakes on speed, adjusted for wind, at the appropriate temperature and altitude condition. Instructions for applying wind adjustments are included below the table. Linear interpolation may be used to obtain intermediate values. The resulting number is the reference brake energy per brake in millions of foot-pounds, and represents the amount of energy absorbed by each brake during a rejected takeoff

To determine the energy per brake absorbed during landing, enter the appropriate Adjusted Brake Energy Per Brake table (No Reverse Thrust or Two Engine Reverse) with the reference brake energy per brake and the type of braking used during landing (Max Manual, Max Auto, or Autobrake). The resulting number is the adjusted brake energy per brake and represents the energy absorbed in each brake during the landing.

The recommended cooling time is found in the final table by entering with the adjusted brake energy per brake or brake temperature monitor system (BTMS) indication on EICAS. Times are provided for ground cooling and inflight gear down cooling.

If brake temperature monitor indication on EICAS is available, the hottest brake indication 10 to 15 minutes after the airplane has come to a complete stop, or inflight with gear retracted, may be used to determine the recommended cooling schedule by entering at the bottom of the chart. The brake temperature light illuminates when the hottest brake is registering 5 on the EICAS indication and extinguishes as the hottest brake cools with an EICAS indication of 4.

Engine Inoperative

Initial Max Continuous EPR

The Initial Max Continuous EPR setting for use following an engine failure is shown. The table shows a range of Cruise Mach numbers to provide a target EPR setting at the start of driftdown. Also shown is the maximum TAT at which the limit EPR can be set. Once driftdown is established, the Max Continuous EPR table should be used to determine EPR for the given conditions.

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Max Continuous EPR

Power setting is based on one engine operating with one A/C pack operating and all anti-ice bleeds off. Enter the table with pressure altitude and IAS or Mach to read EPR.

It is desirable to maintain engine thrust level within the limits of the Max Cruise thrust rating. However, where thrust level in excess of Max Cruise rating is required, such as for meeting terrain clearance, ATC altitude assignments, or to attain maximum range capability, it is permissible to use the thrust needed up to the Max Continuous thrust rating. The Max Continuous thrust rating is intended primarily for emergency use at the discretion of the pilot and is the maximum thrust that may be used continuously.

Driftdown Speed/Level Off Altitude

The table shows optimum driftdown speed as a function of cruise weight at start of driftdown. Also shown are the approximate weight and pressure altitude at which the airplane will level off considering 100 ft/min residual rate of climb.

The level off altitude is dependent on air temperature (ISA deviation).

Driftdown/LRC Range Capability

This table shows the range capability from the start of driftdown. Driftdown is continued to level off altitude. As weight decreases due to fuel burn, the airplane is accelerated to Long Range Cruise speed. Cruise is continued at level off altitude and Long Range Cruise speed.

To determine fuel required, enter the Ground to Air Miles Conversion table with the desired ground distance and adjust for anticipated winds to obtain air distance to destination. Then enter the Driftdown/Cruise Fuel and Time table with air distance and weight at start of driftdown to determine fuel and time required. If altitudes other than the level off altitude are used, fuel and time required may be obtained by using the Engine Inoperative Long Range Cruise Enroute Fuel and Time table.

Long Range Cruise Altitude Capability

The table shows the maximum altitude that can be maintained at a given weight and air temperature (ISA deviation), based on Long Range Cruise speed, Max Continuous thrust, and 100 ft/min residual rate of climb.

Long Range Cruise Control

The table provides target EPR, engine inoperative Long Range Cruise Mach number, IAS and fuel flow for the airplane weight and pressure altitude. The fuel flow values in this table reflect single engine fuel burn.

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Long Range Cruise Diversion Fuel and Time

Tables are provided for crews to determine the fuel and time required to proceed to an alternate airfield with one engine inoperative. The data is based on single engine Long Range Cruise speed and .78/290/250 descent. Enter with Air Distance as determined from the Ground to Air Miles Conversion table and read Fuel and Time required at the cruise pressure altitude. Adjust the fuel obtained for deviation from the reference weight at checkpoint as required by entering the Fuel Required Adjustment table with the fuel required for the reference weight and the actual weight at checkpoint.

Holding

Target EPR, indicated airspeed and fuel flow per engine information is tabulated for holding with flaps up based on the FMC optimum holding speed schedule. This is the higher of the maximum endurance speed and the maneuvering speed. Small variations in airspeed will not appreciably affect the overall endurance time. Enter the table with weight and pressure altitude to read EPR, IAS and fuel flow per engine.

Gear Down

This section contains performance for airplane operation with the landing gear extended for all phases of flight. The data is based on engine bleeds for normal air conditioning.

NOTE: The Flight Management Computer System (FMCS) does not contain special provisions for operation with landing gear extended. As a result, the FMCS will generate inaccurate enroute speed schedules, display non-conservative predictions of fuel burn, estimated time of arrival (ETA), maximum altitude, and compute overly shallow descent path. To obtain accurate ETA predictions, gear down cruise speed and altitude should be entered on the CLB and CRZ pages. Gear down cruise speed should also be entered on the DES page and a STEP SIZE of zero should be entered on the PERF INIT or CRZ page. Use of the VNAV during descent under these circumstances is not recommended.

Tables for gear down performance in this section are identical in format and used in the same manner as tables for the gear up configuration previously described.

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General

Non-Normal Maneuvers and Flight Patterns are included for training and review purposes.

Non-Normal Maneuvers

Flight crews are expected to do non-normal maneuvers from memory.

Flight Patterns

Flight patterns show procedures for some all-engine and engine-inoperative situations.

Flight patterns do not include all procedural items but show required/recommended:

- configuration changes
- · thrust changes
- Mode Control Panel (MCP) changes
- pitch mode and roll mode changes
- · checklist calls.



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Maneuvers Non-Normal Maneuvers

Chapter Man
Section 1

Approach to Stall Recovery

The following is immediately accomplished at the first indication of stall buffet or stick shaker.

| Pilot Flying | Pilot Monitoring |
|---|--|
| Advance thrust levers to maximum thrust* Smoothly adjust pitch attitude** to avoid ground contact or obstacles Level the wings (do not change flaps or landing gear configuration) Retract the speedbrakes | Verify maximum thrust Monitor altitude and airspeed Call out any trend toward terrain contact Verify all required |
| When ground contact is no longer a factor: • Adjust pitch attitude to accelerate while minimizing altitude loss • Return to a speed appropriate for the configuration | actions have been completed and call out any omissions |

Note: * If an approach to stall is encountered with the autopilot engaged, apply maximum thrust and allow the airplane to return to the normal airspeed.

Note: **At high altitude, it may be necessary to descend to accelerate.

Note: If autopilot response is not acceptable, it should be disengaged.

Pilot Induced Roll Oscillation

Pilot Induced Oscillations (PIO) are inadvertent, sustained oscillations of the airplane resulting from interactions between the aircraft and control inputs by the pilot. They are often associated with tasks where the pilot is attempting to precisely and quickly accomplish a flight maneuver (such as the final phase of landing). In a fully developed lateral PIO, pilot control wheel inputs will be out of phase with the airplane roll response.

Flight crews should be aware of the potential for pilot induced roll oscillations when using high rate, high magnitude, rapidly reversed control wheel inputs. This potential is increased when in landing configuration with gusty wind conditions. Pilot techniques that utilize abrupt and pulsing control inputs may also contribute to these events.

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The following action should be accomplished immediately when either pilot recognizes that a PIO exists:

| Pilot Flying | Pilot Monitoring |
|--|---|
| Announce the situation | |
| Immediately stop lateral control wheel inputs until the airplane stabilizes | Verify appropriate pilot response |
| Initiate go-around if oscillations do not diminish or if the aircraft is not in a position from which a safe landing can be made | Recommend go-around if airplane is not stabilized for landing |

Rejected Takeoff

The captain has the sole responsibility for the decision to reject the takeoff. The decision must be made in time to start the rejected takeoff maneuver by V1. If the decision is to reject the takeoff, the captain must clearly announce "REJECT," immediately start the rejected takeoff maneuver, and assume control of the airplane. If the first officer is making the takeoff, the first officer must maintain control of the airplane until the captain makes a positive input to the controls.

Prior to 80 knots the takeoff should be rejected for any of the following:

- activation of the master caution
- system failure(s)
- unusual noise or vibration
- tire failure
- abnormally slow acceleration
- takeoff configuration warning
- fire or fire warning
- engine failure
- if a side window opens
- if the airplane is unsafe or unable to fly
- predictive windshear warning



Above 80 knots and prior to V1, the takeoff should be rejected for any of the following:

- fire or fire warning
- engine failure
- if the airplane is unsafe or unable to fly.
- predictive windshear warning

During the takeoff, the crew member observing the non-normal situation will immediately call it out as clearly as possible.

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| Captain | First Officer |
|---|--|
| Without delay: Simultaneously close the thrust levers, disengage the autothrottles, and apply maximum manual wheel brakes or verify operation of RTO autobrake. If RTO autobrake is selected, monitor system performance and apply manual wheel brakes if the autobrake disarm or deceleration is not adequate. Raise SPEEDBRAKE lever. Apply the maximum amount of reverse thrust consistent with conditions. Continue maximum braking until certain the airplane will stop on the runway. | Verify actions as follows: Thrust levers closed. Autothrottle disengaged. Maximum brakes applied. Verify speedbrake lever UP and call "SPEEDBRAKES UP." If speedbrake lever not UP call "SPEEDBRAKES NOT UP." Reverse thrust applied. Call out any omitted action items. |
| Field length permitting: Initiate movement of the reverse thrust levers to reach the reverse idle detent by taxi speed. | Call out 60 knots. Communicate the reject decision to the control tower and appropriate crew members as soon as practical. |

When the airplane is stopped, perform procedures as required.

Review Brake Cooling Schedule for brake cooling time and precautions (refer to the Performance Inflight chapter).

Consider the following:

- The possibility of wheel fuse plugs melting
- The need to clear the runway
- The requirement for remote parking
- Wind direction in case of fire
- Alerting fire equipment
- Not setting the parking brake unless passenger evacuation is necessary
- Advising the ground crew of the hot brake hazard
- Advising passengers of the need to remain seated or evacuate
- Completion of Non–Normal checklist (if appropriate) for conditions which caused the RTO

Terrain Avoidance

Ground Proximity Caution

Accomplish the following maneuver for any of these aural alerts*:

- CAUTION TERRAIN
- TERRAIN
- DON'T SINK
- GLIDESLOPE
- SINK RATE
- TOO LOW FLAPS
- TOO LOW GEAR
- TOO LOW TERRAIN
- BANK ANGLE

| Pilot Flying | Pilot Monitoring |
|------------------------------|-----------------------------|
| Correct the flight path or t | the airplane configuration. |

The below glideslope deviation alert may be cancelled or inhibited for:

- localizer or backcourse approach
- circling approach from an ILS
- when conditions require a deliberate approach below glideslope
- unreliable glideslope signal.

Note: If a terrain caution occurs when flying under daylight VMC, and positive visual verification is made that no terrain hazard exists, the alert may be regarded as cautionary and the approach may be continued.

Note: *As installed, some repeat.

Ground Proximity Warning

Accomplish the following maneuver for any of these conditions:

- activation of the "TERRAIN TERRAIN PULL UP" warning
- activation of the "PULL UP" warning
- other situations resulting in unacceptable flight toward terrain.

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| Pilot Flying | Pilot Monitoring |
|--|---|
| Disconnect autopilot. Disconnect autothrottle. Aggressively apply maximum* thrust. Simultaneously roll wings level and rotate to an initial pitch attitude of 20°. Retract speedbrakes. If terrain remains a threat, continue rotation up to the pitch limit indicator or stick shaker or initial buffet. | Verify maximum* thrust. Verify all required actions have been completed and call out any omissions. |
| Do not change gear or flap configuration until terrain separation is assured. Monitor radio altimeter for sustained or increasing terrain separation. When clear of the terrain, slowly decrease pitch attitude and accelerate. | Monitor vertical speed and altitude (radio altitude for terrain clearance and barometric altitude for a minimum safe altitude). Call out any trend toward terrain contact. |

Note: Aft control column force increases as the airspeed decreases. In all cases, the pitch attitude that results in intermittent stick shaker or initial buffet is the upper pitch attitude limit. Flight at intermittent stick shaker may be required to obtain positive terrain separation. Smooth, steady control will avoid a pitch attitude overshoot and stall.

Note: Do not use flight director commands.

Note: * Maximum thrust can be obtained by advancing the thrust levers to the takeoff or go-around limit. On airplanes with EEC's operating normally, the pilot may advance the thrust levers full forward. If terrain contact is imminent, advance thrust levers full forward.

Note: If positive visual verification is made that no terrain hazard exists when flying under daylight VMC conditions prior to a terrain warning, the alert may be regarded as cautionary and the approach may be continued.



Traffic Avoidance

The following is accomplished immediately by recall whenever a TCAS traffic advisory (TA) or resolution advisory (RA) occurs.

WARNING: Comply with the RA if there is a conflict between the RA and air traffic control.

WARNING: Once an RA has been issued, safe separation could be compromised if current vertical speed is changed, except as necessary to comply with the RA. This is because TCAS II-to-TCAS II coordination may be in progress with the intruder aircraft, and any change in vertical speed that does not comply with the RA may negate the effectiveness of the other aircraft's compliance with the RA.

Note: If stick shaker or initial buffet occurs during the maneuver, immediately accomplish the APPROACH TO STALL RECOVERY procedure.

Note: If high speed buffet occurs during the maneuver, relax pitch force as necessary to reduce buffet, but continue the maneuver.

Note: Do not use flight director pitch commands until clear of conflict.

For TA:

| Pilot Flying | Pilot Monitoring |
|---|------------------|
| Look for traffic using traffic display as a guide. Call out any conflicting traffic | |
| If traffic is sighted, maneuver if needed. | |

Note: Maneuvers based solely on a TA may result in reduced separation and are not recommended.

For RA, except a climb in landing configuration:

WARNING: A DESCEND (fly down) RA issued below 1,000 feet AGL should not be followed.

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| Pilot Flying | Pilot Monitoring |
|---|------------------|
| If maneuvering is required, disengage the autopilot and autothrottle. Smoothly adjust pitch and thrust to satisfy the RA command. Follow the planned lateral flight path unless visual contact with the conflicting traffic requires other action. | |
| Attempt to establish visual contact. Call out any conflicting traffic. | |

For a climb RA in landing configuration:

| Pilot Flying | Pilot Monitoring |
|---|--|
| Disengage the autopilot and autothrottle. Advance thrust levers forward to ensure maximum thrust is attained and call for FLAPS 20. Smoothly adjust pitch to satisfy the RA command. Follow the planned lateral flight path unless visual contact with the conflicting traffic requires other action. | Verify maximum thrust set. Position flap lever to 20 detent. |
| Verify a positive rate of climb on the altimeter and call "GEAR UP." | Verify a positive rate of climb on the altimeter and call "POSITIVE RATE." Set the landing gear lever to UP. |
| Attempt to establish visual contact. Call out any conflicting traffic. | |

Upset Recovery

An upset can generally be defined as unintentionally exceeding the following conditions:

- pitch attitude greater than 25 degrees nose up, or
- pitch attitude greater than 10 degrees nose down, or
- bank angle greater than 45 degrees, or
- within above parameters but flying at airspeeds inappropriate for the conditions.

Man.1.9



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The following techniques represent a logical progression for recovering the airplane. The sequence of actions is for guidance only and represents a series of options to be considered and used depending on the situation. Not all the actions may be necessary once recovery is underway. If needed, use pitch trim sparingly. Careful use of rudder to aid roll control should be considered only if roll control is ineffective and the airplane is not stalled.

These techniques assume that the airplane is not stalled. A stalled condition can exist at any attitude and may be recognized by continuous stick shaker activation accompanied by one or more of the following:

- buffeting, which could be heavy at times
- lack of pitch authority and/or roll control
- inability to arrest descent rate.

If the airplane is stalled, recovery from the stall must be accomplished first by applying and maintaining nose down elevator until stall recovery is complete and stick shaker activation ceases.

Nose High Recovery

| Pilot Flying | Pilot Monitoring |
|---|--|
| Recognize and confirm the situation. | |
| Disconnect autopilot and autothrottle. Apply as much as full nose down elevator. *Apply appropriate nose down stabilizer trim. Reduce thrust. *Roll (adjust bank angle) to obtain a nose down pitch rate. Complete the recovery: when approaching the horizon, roll to wings level check airspeed and adjust thrust establish pitch attitude. | Call out attitude, airspeed and altitude throughout the recovery. Verify all required actions have been completed and call out any omissions. |

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Nose Low Recovery

| Pilot Flying | Pilot Monitoring |
|--|--|
| Recognize and confirm the situation. | |
| Disconnect autopilot and autothrottle. Recover from stall, if required. *Roll in the shortest direction to wings level (unload and roll if bank angle is more than 90 degrees). Recover to level flight: apply nose up elevator *apply nose up trim, if required adjust thrust and drag as required. | Call out attitude, airspeed and altitude throughout the recovery. Verify all required actions have been completed and call out any omissions. |

WARNING: * EXCESSIVE USE OF PITCH TRIM OR RUDDER MAY AGGRAVATE AN UPSET SITUATION OR MAY RESULT IN LOSS OF CONTROL AND/OR HIGH STRUCTURAL LOADS.

Windshear

Predictive Windshear (PWS)

PWS Cautions

For predictive windshear caution alert: ("MONITOR RADAR DISPLAY" aural)

| Pilot Flying | Pilot Monitoring | |
|--|------------------|--|
| Maneuver as required to avoid the windshear. | | |

PWS Warnings

Predictive windshear warning during takeoff roll: ("WINDSHEAR AHEAD, WINDSHEAR AHEAD" aural)

- Prior to V1, reject takeoff.
- After V1, perform the Windshear Escape Maneuver.

Predictive windshear warning during approach: ("GO–AROUND, WINDSHEAR AHEAD" aural)

• perform Windshear Escape Maneuver or, at pilot's discretion, perform a normal go—around.



Windshear Indications

The following are indications the airplane is encountering a windshear:

- Unacceptable flight path deviations; recognized as uncontrolled changes from normal steady state flight conditions below 1,000 feet AGL, in excess of any of the following:
 - 15 knots indicated airspeed
 - 500 FPM vertical speed
 - 5 degrees pitch attitude
 - 1 dot displacement from the glideslope
 - unusual thrust lever position for a significant period of time.
- Windshear Immediate-Alert Warning (two-tone siren followed by "WINDSHEAR, WINDSHEAR, WINDSHEAR")

Windshear Encounter

Windshear encountered during takeoff roll:

- If windshear is encountered prior to V1, there may not be sufficient runway remaining to stop if an RTO is initiated at V1. At VR, rotate at a normal rate toward a 15 degree pitch attitude. Once airborne, perform the Windshear Escape Maneuver.
- If windshear is encountered near the normal rotation speed and airspeed suddenly decreases, there may not be sufficient runway left to accelerate back to normal takeoff speed. If there is insufficient runway left to stop, initiate a normal rotation at least 2,000 feet before the end of the runway even if airspeed is low. Higher than normal attitudes may be required to lift off in the remaining runway. Ensure maximum thrust is set.

Windshear encountered in flight:

• perform the Windshear Escape Maneuver.

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Windshear Escape Maneuver With Flight Director Guidance

| <u>-</u> | |
|--|---|
| Pilot Flying | Pilot Monitoring |
| MANUAL FLIGHT Disconnect autopilot. Push either go—around switch. Aggressively apply maximum* thrust. Disconnect autothrottle. Simultaneously roll wings level and rotate toward an initial pitch attitude of 15°. Retract speedbrakes. Follow flight director GA guidance (if available). AUTOMATIC FLIGHT Press either go—around switch.** Verify GA mode annunciation. Verify thrust advances to GA power. Retract speedbrakes. Monitor system performance***. | Verify maximum* thrust. Verify all required actions have been completed and call out any omissions. |
| Do not change gear or flap configuration until windshear is no longer a factor. Monitor vertical speed and altitude. Do not attempt to regain lost airspeed until windshear is no longer a factor. | Monitor vertical speed and altitude. Call out any trend toward terrain contact, descending flight path, or significant airspeed changes. |

Note: Aft control column force increases as the airspeed decreases. In all cases, the pitch attitude that results in intermittent stick shaker or initial buffet is the upper pitch attitude limit. Flight at intermittent stick shaker may be required to obtain positive terrain separation. Smooth, steady control will avoid a pitch attitude overshoot and stall

Note: * Maximum thrust can be obtained by advancing the thrust levers to the takeoff or go-around limit. On airplanes with EEC's operating normally, the pilot may advance the thrust levers full forward. If terrain contact is imminent, advance thrust levers full forward



Maneuvers -Non-Normal Maneuvers

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Note: ** If GA is not available, disconnect autopilot and autothrottle and fly manually.

WARNING: *** Severe windshear may exceed the performance capability of the AFDS. The pilot flying must be prepared to disconnect the autopilot and autothrottle and fly manually.



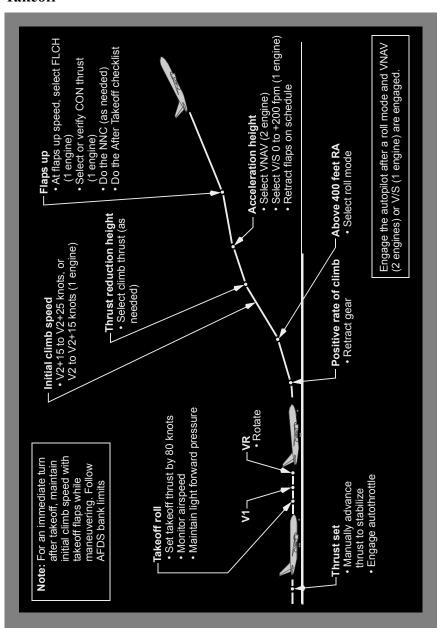
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Maneuvers Flight Patterns

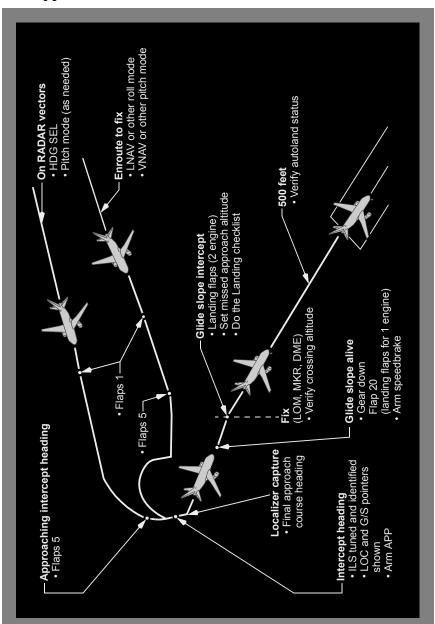
Chapter Man Section 2

Takeoff

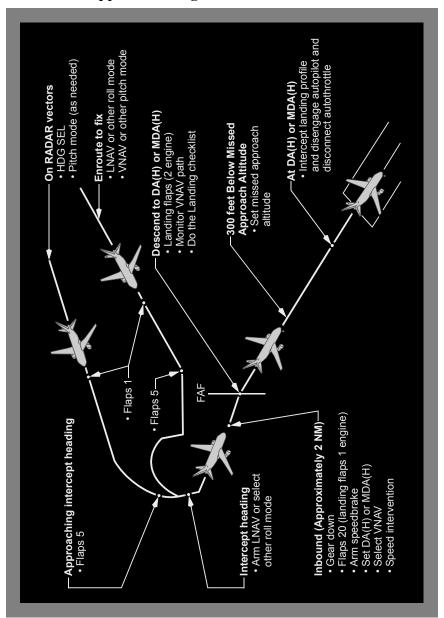


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ILS Approach

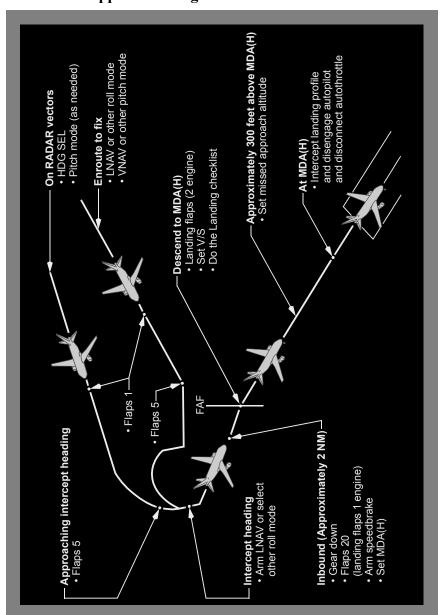


Instrument Approach Using VNAV



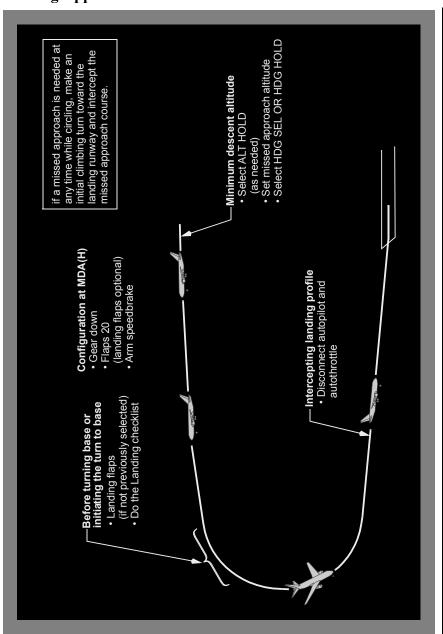
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Instrument Approach Using V/S



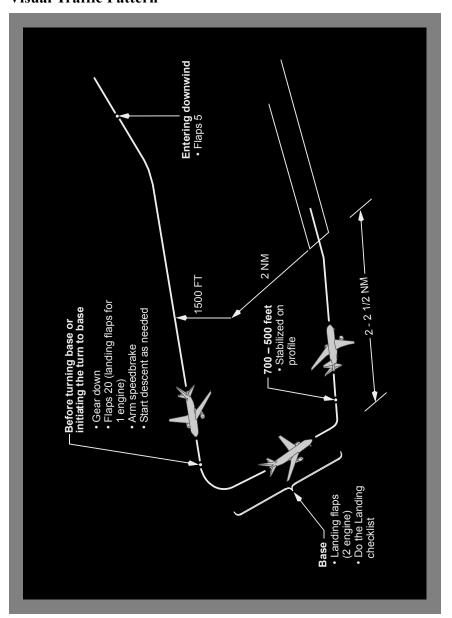


Circling Approach

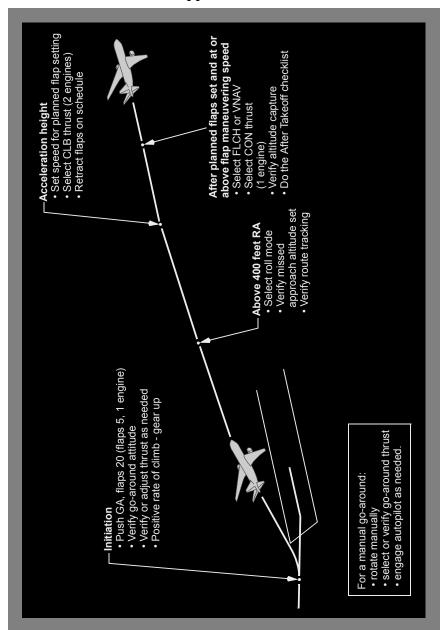


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Visual Traffic Pattern



Go-Around and Missed Approach





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Checklist Instructions Model Identification

Chapter CI Section ModID

General

The airplanes listed in the table below are covered in the Quick Reference Handbook. The numbers are used to distinguish data peculiar to one or more, but not all of the airplanes. Where data applies to all airplanes listed, no reference is made to individual airplane numbers.

The table permits flight crew correlation of configuration differences by Registry Number in alpha/numeric order within an operator's fleet for airplanes covered in this manual. Configuration data reflects the airplane as delivered configuration and is updated for service bulletin incorporations in conformance with the policy stated in the introduction section of this chapter.

Registry number is supplied by the national regulatory agency. Serial and tabulation numbers are supplied by Boeing.

| Registry Number | Serial Number | Tabulation Number |
|-----------------|---------------|-------------------|
| TBC-01 | BC001 | BC001 |
| TBC-02 | BC002 | BC002 |

CLModID.1 May 14, 2010 D632N001-200

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Checklist Instructions Revision Record

Chapter CI Section RR

Revision Transmittal Letter

To: All holders of The Boeing Company 757 Flight Crew Operations Manual (FCOM), Boeing Document Number D632N001-200.

Subject: Flight Crew Operations Manual Revision.

CAUTION. Before inserting this FCOM revision check for the presence of the Evacuation Checklist. If the Evacuation Checklist is part of this QRH revision, this QRH has been completely reprinted for customer convenience due to the large number of changed pages.

This revision reflects the most current information available to The Boeing Company 45 days before the subject revision date. The following revision highlights explain changes in this revision. General information below explains the use of revision bars to identify new or revised information.

Revision Record

| No. | Revision Date | Date Filed |
|-----|---------------|---------------|
| 0 | May 17, 2007 | |
| 2 | May 15, 2008 | |
| 4 | May 19, 2009 | |
| 6 | May 14, 2010 | |

| No. | Revision Date | Date Filed |
|-----|-------------------|---------------|
| 1 | November 20, 2007 | |
| 3 | November 18, 2008 | |
| 5 | November 13, 2009 | |
| | | |

General

The Boeing Company issues flight crew operations manual revisions to provide new or revised procedures and information. Formal revisions also incorporate appropriate information from previously issued flight crew operations manual bulletins.

The revision date is the approximate date the manual is mailed to the customer.

Formal revisions include a Transmittal Letter, a new Revision Record, Revision Highlights, and a current List of Effective Pages. Use the information on the new Revision Record and List of Effective Pages to verify the manual content.

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Pages containing revised material have revision bars and highlights associated with the changed text or illustration. Revision bars associated with revised effectivity due to additions, deletions of airplanes or changes to previous registration numbers will not have highlights. Changes associated with redirect instructions will also have revision bars without highlights.

The record above should be completed by the person incorporating the revision into the manual

Filing Instructions

Consult the List of Effective Pages (CI.LEP). Pages identified with an asterisk (*) are either replacement pages or new (original) issue pages. Remove corresponding old pages and replace or add new pages. Remove pages that are marked DELETED; there are no replacement pages for deleted pages.

Revision Highlights

This section (CI.RR) replaces the existing section CI.RR in your manual.

Be careful when inserting changes not to throw away pages from the manual that are not replaced. Using the List of Effective Pages (CI.LEP) can help determine the correct content of the manual.

Throughout the manual, airplane effectivity may be updated to reflect coverage as listed on the Preface - Model Identification page, or to show service bulletin airplane effectivity. Highlights are not supplied.

This manual is published from a database; the text and illustrations are marked with configuration information. Occasionally, because the editors rearrange the database markers, or mark items with configuration information due to the addition of new database content, some customers may receive revision bars on content that appears to be unchanged. Pages may also be republished without revision bars due to slight changes in the flow of the document.

Chapter NNC - Non-Normal Checklists

Section 2 - Air Systems

EQUIPMENT OVERHEAT

2.10 - Added missing end of checklist symbol, there is no procedural change.

Section 6 - Electrical

STANDBY BUS OFF

6.10 - Added revised Standby Bus Off procedure for airplanes with unmodified standby power system and electric alternate stab trim switches.

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Section 7 - Engines, APU

Engine Limit or Surge or Stall

7.10 - Revised the condition statement to make it clear that this checklist applies to partial loss of engine thrust control malfunctions.

Section 8 - Fire Protection

Smoke, Fire or Fumes

8.8 - Revised the condition statement to clarify that the checklist should be done whenever smoke, fire or fumes occurs.

CARGO FIRE

8.13 - Added PACK OFF to the list of checklists to not accomplish.

Section 10 - Flight Instruments, Displays

Airspeed Unreliable

- 10.1 Revised note to clarify that the Flight With Unreliable Airspeed table is located in the Performance Inflight section of the QRH.
- 10.2 Reformatted steps for cross model standardization.

ALTITUDE DISAGREE

- 10.4 Reformatted steps for cross model standardization.
- 10.4 Reformatted steps for cross model standardization.

Section 12 - Fuel

Engine Fuel Leak

12.2,5 - Format change, no change to technical content.

FUEL CONFIGURATION

12.9 - Format change, no change to technical content.

FUEL PUMP

12.11 - Format change, no change to technical content.

FUEL SYSTEM PRESSURE

12.12 - Revised wording for cross-model standardization. No technical change.

LOW FUEL

12.15 - Format change, no change to technical content.

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Section 14 - Landing Gear

GEAR DISAGREE

14.12 - Added requirement not to use reverse thrust to standardize with Flight Crew Training manual.

Chapter PI-QRH - Performance Inflight - QRH

Section 10 - Table of Contents

PI-QRH.TOC.10.1 - 757-200 535E4 LB FAA was added as Section 10.

Section 11 - Advisory Information

Non-Normal Configuration Landing Distance

PI-QRH.11.4,6,8,10 - Added the LE SLAT ASYMMETRY 5 <= FLAPS < 20 landing configuration to reflect the revised Non-Normal Checklist. This addition alters the existing LE SLAT ASYMMETRY data for FLAPS > 20 and FLAPS=20.

Section 20 - Table of Contents

PI-QRH.TOC.20.1 - 757-200 PW2037 LB FAA was added as Section 20.

Section 21 - Advisory Information

Non-Normal Configuration Landing Distance

PI-QRH.21.4,6,8,10 - Added the LE SLAT ASYMMETRY 5 <= FLAPS < 20 landing configuration to reflect the revised Non-Normal Checklist. This addition alters the existing LE SLAT ASYMMETRY data for FLAPS > 20 and FLAPS=20.

Chapter Man - Maneuvers

Section 2 - Flight Patterns

Circling Approach

Man.2.5 - Changed "ALT HLD" to "ALT HOLD" to match the actual nomenclature. Added "HDG HOLD" to the recommended lateral modes for the maneuvering portion of the circling approach.

Chapter CI - Checklist Instructions

Section 2 - Non-Normal Checklists

Non-Normal Checklist Operation

CI.2.2 - Added information on flight crew troubleshooting for cross model standardization.

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Checklist Instructions QRH List of Effective Pages

Chapter CI Section LEP

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| * EICAS.Index.1-10 | May 14, 2010 | | |
| Unannunc | eiated (tab) | | |
| * Unann.Index.1-2 | May 14, 2010 | | |
| Alphabet | tical (tab) | | |
| * Alpha.Index.1-16 | May 14, 2010 | | |
| Normal Che | ecklists (tab) | | |
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| 1 Airplane Gen | eral, Emergency | |
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| 3 Anti-Ice, Rain (tab) | | |
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| 5 Communications (tab) | | |
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^{* =} Revised, Added, or Deleted

Checklist Instructions -

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^{* =} Revised, Added, or Deleted

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Checklist Instructions Normal Checklists

Chapter CI Section 1

Introduction

This introduction gives guidelines for use of the Normal Checklist (NC).

The NC is organized by phase of flight.

The NC is used to verify that critical items have been done.

Normal Checklist Operation

Normal checklists are used after doing all respective procedural items.

The following table shows which pilot calls for the checklist and which pilot reads the checklist. Both pilots visually verify that each item is in the needed configuration or that the step is done. The far right column shows which pilot gives the response. This is different than the normal procedures where the far right column can show which pilot does the step.

| Checklist | Call | Read | Verify | Respond |
|----------------|--------------|------------------|--------|------------------------|
| PREFLIGHT | Captain | First officer | Both | Area of responsibility |
| BEFORE START | Captain | First officer | Both | Area of responsibility |
| BEFORE TAXI | Captain | First officer | Both | Area of responsibility |
| BEFORE TAKEOFF | Pilot flying | Pilot monitoring | Both | Pilot flying |
| AFTER TAKEOFF | Pilot flying | Pilot monitoring | Both | Pilot monitoring |
| DESCENT | Pilot flying | Pilot monitoring | Both | Area of responsibility |
| APPROACH | Pilot flying | Pilot monitoring | Both | Area of responsibility |
| LANDING | Pilot flying | Pilot monitoring | Both | Pilot flying |
| SHUTDOWN | Captain | First officer | Both | Area of responsibility |
| SECURE | Captain | First officer | Both | Area of responsibility |

If the airplane configuration does not agree with the needed configuration:

- · stop the checklist
- complete the respective procedure steps
- · continue the checklist

If it becomes apparent that an entire procedure was not done:

- · stop the checklist
- complete the entire procedure
- · do the checklist from the start

Checklist Instructions -Normal Checklists

DO NOT USE FOR FLIGHT

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Try to do checklists before or after high work load times. The crew may need to stop a checklist for a short time to do other tasks. If the interruption is short, continue the checklist with the next step. If a pilot is not sure where the checklist was stopped, do the checklist from the start. If the checklist is stopped for a long time, also do the checklist from the start.

| After | completion of each checklist, the pilot reading the checklist calls, |
|-------|--|
| " | CHECKLIST COMPLETE." |

Checklist Content

The checklist has the minimum items needed to operate the airplane safely.

Normal checklists have items that meet any of the following criteria:

- items essential to safety of flight that are not monitored by an alerting system, or
- items essential to safety of flight that are monitored by an alerting system but if not done, would likely result in a catastrophic event if the alerting system fails, or
- · needed to meet regulatory requirements, or
- items needed to maintain fleet commonality between the 737, 747-400, 757, 767, and 777, or
- items that enhance safety of flight and are not monitored by an alerting system (for example the autobrake), or
- during shutdown and secure, items that could result in injury to personnel or damage to equipment if not done

Checklist Construction

When a checklist challenge does not end with "switch or lever", then the challenge refers to system status. For example, "Landing Gear...Down", refers to the status of the landing gear, not just the position of the lever.

When a checklist challenge ends with "switch or lever", then the challenge refers to the position of the switch or lever. For example, "FUEL CONTROL switches...CUTOFF" refers to the position of the switches.

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Checklist Instructions Non-Normal Checklists

Chapter CI Section 2

Introduction

The non-normal checklists chapter contains checklists used by the flight crew to cope with non-normal situations. The checklists are grouped in sections which match the system description chapters in Volume 2.

Most checklists correspond to an EICAS alert message. The EICAS alert message indicates a non-normal condition and is the cue to select and do the associated checklist.

Checklists without an EICAS alert message (such as Ditching Preparation) are called unannunciated checklists. Most unannunciated checklists are in the associated system section. For example, Engine Fuel Leak is in section 12, Fuel. Unannunciated checklists with no associated system are in section 0, Miscellaneous

All checklists have condition statements. The condition statement briefly describes the situation that caused the EICAS alert message. Unannunciated checklists also have condition statements to help in understanding the reason for the checklist.

Some checklists have objective statements. The objective statement briefly describes the expected result of doing the checklist or briefly describes the reason for steps in the checklist.

Checklists can have both memory and reference items. Memory items are critical steps that must be done before reading the checklist. The last memory item is followed by a dashed horizontal line. Reference items are actions to be done while reading the checklist.

Some checklists have additional information at the end of the checklist. The additional information provides data the crew may wish to consider. The additional information does not need to be read.

Checklists that need a quick response are listed in the Quick Action Index. In each system section, Quick Action Index checklists are listed first, followed by checklists that are not in the Quick Action Index. The titles of Quick Action Index checklists are printed in **bold** type. Checklist titles in upper case (such as AUTOBRAKES) are annunciated by an EICAS alert message or other indication. Checklist titles in upper and lower case (such as Window Damage) are not annunciated.

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Non-Normal Checklist Operation

Non-normal checklists start with steps to correct the situation. If needed, information for planning the rest of the flight is included. When special items are needed to configure the airplane for landing, the items are included in the Deferred Items section of the checklist. Flight patterns for some non-normal situations are located in the Maneuvers chapter and show the sequence of configuration changes.

While every attempt is made to supply needed non-normal checklists, it is not possible to develop checklists for all conceivable situations. In some smoke, fire or fumes situations, the flight crew may need to move between the Smoke, Fire or Fumes checklist and the Smoke or Fumes Removal checklist. In some multiple failure situations, the flight crew may need to combine the elements of more than one checklist. In all situations, the captain must assess the situation and use good judgment to determine the safest course of action.

It should be noted that, in determining the safest course of action, troubleshooting, i.e., taking steps beyond published non-normal checklist steps, may cause further loss of system function or system failure. Troubleshooting should only be considered when completion of the published non-normal checklist results in an unacceptable situation.

There are some situations where the flight crew must land at the nearest suitable airport. These situations include, but are not limited to, conditions where:

- the non–normal checklist includes the item "Plan to land at the nearest suitable airport."
- · fire or smoke continues
- only one AC power source remains (engine or APU generator)
- any other situation determined by the flight crew to have a significant adverse effect on safety if the flight is continued.

It must be stressed that for smoke that continues or a fire that cannot be positively confirmed to be completely extinguished, the earliest possible descent, landing, and evacuation must be done

If a smoke, fire or fumes situation becomes uncontrollable, the flight crew should consider an immediate landing. Immediate landing implies immediate diversion to a runway. However, in a severe situation, the flight crew should consider an overweight landing, a tailwind landing, an off-airport landing, or a ditching.

Checklists directing an engine shutdown must be evaluated by the captain to determine whether an actual shutdown or operation at reduced thrust is the safest course of action. Consideration must be given to the probable effects of running the engine at reduced thrust.

Checklist Instructions -Non-Normal Checklists

DO NOT USE FOR FLIGHT

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There are no non–normal checklists for the loss of an engine indication or automatic display of the secondary engine indications. Continue normal engine operation unless an EICAS alert message shows or a limit is exceeded.

Non-normal checklists also assume:

- During engine start and before takeoff, the associated non–normal checklist is done if an EICAS alert message is shown or a non-normal situation is identified. After completion of the checklist, the Dispatch Deviations Guide or operator equivalent is consulted to determine if Minimum Equipment List dispatch relief is available.
- System controls are in the normal configuration for the phase of flight before the start of the non-normal checklist.
- Aural alerts are silenced and the system is reset by the flight crew as soon as the cause of the alert is recognized.
- The EICAS message list is cancelled after all checklists are complete or on hold so that future messages are more noticeable.
- The EMERGENCY position of the oxygen regulator is used when needed to supply positive pressure in the masks and goggles to remove contaminants. The 100% position of the oxygen regulator is used when positive pressure is not needed; but contamination of the flight deck air exists. The Normal position of the oxygen regulator is used if prolonged use is needed and the situation allows. Normal boom microphone operation is restored when oxygen is no longer in use.
- Indicator lights are tested to verify suspected faults.
- Flight crew reset of a tripped fuel pump circuit breaker is prohibited. In flight, reset of any other tripped circuit breaker is not recommended. However, these other tripped circuit breakers may be reset once, after a short cooling period (approximately 2 minutes), if in the judgment of the captain, the situation resulting from the circuit breaker trip has a significant adverse effect on safety. On the ground, flight crew reset of any other tripped circuit breaker should only be done after maintenance has determined that it is safe to reset the circuit breaker.
- Flight crew cycling (pulling and resetting) of circuit breakers to clear a non-normal condition is not recommended, unless directed by a non-normal checklist.

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Non-Normal Checklist Use

If a checklist or a step in a checklist is not applicable to all airplanes, airplane effectivity information is included in the checklist. Airplane effectivity can be listed by airplane number, registry number, serial number or tabulation number. If a checklist is applicable to some but not all airplanes, airplane effectivity is centered below the checklist title. If a step in a checklist is applicable to some but not all airplanes, airplane effectivity is included above the step. If a checklist or a step in a checklist is applicable to all airplanes, airplane effectivity information is not included

Non-normal checklist use starts when the airplane flight path and configuration are correctly established. Only a few situations need an immediate response (such as CABIN ALTITUDE or Rapid Depressurization). Usually, time is available to assess the situation before corrective action is started. All actions must then be coordinated under the captain's supervision and done in a deliberate, systematic manner. Flight path control must never be compromised.

When a non-normal situation occurs, at the direction of the pilot flying, both crewmembers do all memory items in their areas of responsibility without delay.

The pilot flying calls for the checklist when:

- the flight path is under control
- the airplane is not in a critical phase of flight (such as takeoff or landing)
- all memory items are complete.

The pilot monitoring reads aloud:

- the checklist title
- messages (if applicable)
- as much of the condition statement as needed to verify that the correct checklist has been selected
- as much of the objective statement (if applicable) as needed to understand the expected result of doing the checklist.

The pilot flying does not need to repeat this information but must acknowledge that the information was heard and understood.

For checklists with memory items, the pilot monitoring first verifies that each memory item has been done. The checklist is normally read aloud during this verification. The pilot flying does not need to respond except for items that are not in agreement with the checklist. The item numbers do not need to be read.

Non-memory items are called reference items. The pilot monitoring reads aloud the reference items, including:

- the precaution (if any)
- the response or action
- · any amplifying information.

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The pilot flying does not need to repeat this information but must acknowledge that the information was heard and understood. The item numbers do not need to be read

The word "Confirm" is added to checklist items when both crewmembers must verbally agree before action is taken. During an inflight non-normal situation, verbal confirmation is required for::

- · an engine thrust lever
- · a fuel control switch
- an engine or APU fire switch, or a cargo fire arm switch
- a generator drive disconnect switch.

This does not apply to the Dual Engine Failure checklist.

With the airplane stationary on the ground:

• the captain and the first officer take action based on preflight and postflight areas of responsibility.

With the airplane in flight or in motion on the ground:

• the pilot flying and the pilot monitoring take action based on each crewmember's Areas of Responsibility.

After moving the control, the crewmember taking the action also states the checklist response.

The pilot flying may also direct reference checklists to be done by memory if no hazard is created by such action, or if the situation does not allow reference to the checklist

Checklists include an Inoperative Items table only when the condition of the items is needed for planning the rest of the flight and the condition is not shown on EICAS. The inoperative items, including the consequences (if any), are read aloud by the pilot monitoring. The pilot flying does not need to repeat this information but must acknowledge that the information was heard and understood.

Consequential EICAS alert messages can show as a result of a primary failure condition (such as RUDDER RATIO as a result of HYDRAULIC SYSTEM PRESSURE (L Only)) or as a result of doing a non–normal checklist (such as L PACK OFF or R PACK OFF as a result of doing the Smoke, Fire or Fumes checklist). The flight crew should do the checklists for consequential EICAS alert messages, unless the statement "Do not accomplish the following checklists:" is included. All consequential EICAS alert messages may not show while doing the primary checklist, depending on operational circumstances.

After completion of the non–normal checklist, normal procedures are used to configure the airplane for each phase of flight.

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When there are no deferred items, the DESCENT, APPROACH and LANDING normal checklists are used to verify that the configuration is correct for each phase of flight.

When there are deferred items, the non-normal checklist will include the item "Checklist Complete Except Deferred Items." The pilot flying is to be made aware when there are deferred items. These items are included in the Deferred Items section of the checklist and may be delayed until the usual point during descent, approach or landing.

The deferred items are read aloud by the pilot monitoring. The pilot flying or the pilot monitoring takes action based on each crewmember's area of responsibility. After moving the control, the crewmember taking the action also states the response.

When there are deferred items, the Deferred Items section of the non-normal checklist will include the Descent, Approach and Landing normal checklists. These checklists should be used instead of the usual DESCENT, APPROACH and LANDING normal checklists. If a normal checklist item is changed as a result of the non-normal situation, the changed response is printed in **bold** type. The pilot flying or the pilot monitoring responds to the deferred normal checklist items based on each crewmember's area of responsibility. However, during the deferred Landing normal checklist, the pilot flying responds to all deferred normal checklist items.

Each checklist has a checklist complete symbol at the end. The following symbol indicates that the checklist is complete:



The checklist complete symbol can also be in the body of the checklist. This only occurs when a checklist divides into two or more paths. Each path can have a checklist complete symbol at the end. The flight crew does not need to continue reading the checklist after the checklist complete symbol.

After completion of each non–normal checklist, the pilot monitoring states "____CHECKLIST COMPLETE."

Additional information at the end of the checklist is not required to be read.

The flight crew must be aware that checklists cannot be created for all conceivable situations and are not intended to replace good judgment. In some situations, at the captain's discretion, deviation from a checklist may be needed.



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Non-Normal Checklist Legend

Redirection Symbol



The redirection symbol is used in two ways:

- In the Table of Contents of a system section, to direct the flight crew to a different system section.
- In a non-normal checklist, with the word "Go to", to direct the flight crew to a different checklist or to a different step in the current checklist.

Separator Symbol

The separator symbol is used in two ways:

- In the Table of Contents of a system section, to separate the Quick Action Index checklists from the checklists that are not in the Quick Action Index
- In a non-normal checklist, to separate the memory items from the reference items

Task Divider Symbol

The task divider symbol is used to indicate the end of one task and the beginning of another task.

Decision Symbol

Choose one:



The decision symbol is used to identify possible choices.

Precaution Symbol



The precaution symbol is used to identify information the flight crew must consider before taking the action.



Intentionally Blank

DO NOT USE FOR FLIGHT Back Cover.1

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Evacuation Checklist is on the reverse side of this page.

Back Cover. 2nn NOT USE FOR FLIGHT

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Evacuation Evacuation is needed. Condition: Parking brake........... 1 Cabin altitude MODE SELECT MAN 2 3 CABIN ALTITUDE MANUAL control Hold in CLIMB until the outflow valve is fully open FUEL CONTROL switches (both) CUTOFF 5 Advise the cabin to evacuate. 6 Advise the tower. Engine and APU 7 fire switches (all) Override and pull If an engine or APU fire warning occurs: Related fire switch Rotate to the stop and hold for 1 second