717 QRH EP.TOC.10.1

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NOTE: The APU will automatically shut down when an APU fire is detected.

APU FIRE CONT Switch OFF & AGENT ARM

"APU FIRE" ALERT REMAINS

DISPLAYED NO APU FIRE AGENT Switch NO 1 or NO 2 DISCH/CHECK After 30 seconds, "APU FIRE" ALERT REMAINS DISPLAYED NO Remaining APU FIRE AGENT Switch DISCH/CHECK APU MASTER Switch OFF [END]

[END]

CABIN ALTITUDE

Crew Communications......ESTABLISH

Outflow VALVE..... VERIFY CLOSED

CABIN ALTITUDE CONTROLLABLE

Operate cabin pressure system as required.

[END]

Perform an emergency descent. Initiate descent to 10,000 feet or minimum safe altitude, whichever is higher.

CAUTION: Descent not to exceed 10° pitch or 30° bank.

Speed Brakes EXTEND

WARNING: If structural damage is suspected or turbulence is present, do not exceed .75 M/275 KIAS.

Descent SpeedESTABLISHED (.80 M/320 KIAS)

To reactivate boom mike when O2 mask is no longer required.

(CONTINUED)

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CABIN ALTITUDE (Continued)

1



<u>WARNING:</u> Notify ground personnel not to open any cargo door until all passengers and crew have exited airplane and fire fighting equipment is available at airplane.

NOTE: In addition to the "CARGO SMOKE____" alert displayed, an aural warning will sound.

Flashing CARGO SMOKE AGENT 1 DISCH Switch PUSH

Observe LOW light illuminates.

NOTE: If CARGO SMOKE AGENT 2 DISCH switch is pushed inadvertently, AGENT 2 cylinder will discharge and associated CARGO SMOKE AGENT 1 DISCH switch will continue flashing. If so, push AGENT 1 switch.

After approximately 1 minute elapsed time,

CARGO SMOKE AGENT 1 DISCH LOW LIGHT ILLUMINATED

NO

Approximately 6 minutes after AGENT 1 has been discharged, "DISCH CARGO AGENT" alert will be displayed on EAD and CARGO SMOKE AGENT 2 DISCH switch will flash. Push the flashing CARGO SMOKE AGENT 2 DISCH switch.

NOTES: CARGO SMOKE AGENT DISCH switch will stop flashing when DISCH light switch is pushed.

Approximately 2 hours after CARGO SMOKE AGENT 2 DISCH switch is pushed, low light will illuminate.

Land at nearest suitable airport.

[END]

Associated CARGO SMOKE AGENT 2 DISCH Switch. PUSH Land at nearest suitable airport.

[END]

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Throttle (Affected Engine)......IDLE When engine is idle,

2

"ENGINE FIRE" ALERT DISPLAYED OR SEVERE DAMAGE SUSPECTED

NO

FUEL Switch (Affected Engine). OFF ENG FIRE Handle/AGENT Low Light (Affected Engine) PULL, DISCH/CHECK

NOTE: Ensure the engine fire handle is pulled out fully to the stop before attempting to rotate the handle to the selected agent.

"ENGINE FIRE" ALERT **DISPLAYED**

After 30 seconds,

"ENGINE FIRE" ALERT REMAINS DISPLAYED

> NOTE: If "ENGINE FIRE" alert is displayed 30 seconds or more after discharging first fire agent, remaining agent should be discharged. Discharge of second agent leaves no engine fire agent for remaining engine or APU.

Remaining Agent. DISCH/CHECK

Hydraulic AUX or

NO

TRANS Pump Switches AS REQUIRED

HYDRAULIC PUMP Switch (Affected Engine) OFF

Fuel Boost Pump Switches/

FUEL XFEED Lever AS REQUIRED

PACK Switch (Affected Engine) OFF

BLEED Switch (Affected Engine) OFF

PACK SHUTDOWN Switch..... AS REQUIRED

(CONTINUED)

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ENGINE __ FIRE OR SEVERE DAMAGE (Continued)

"ENGINE___FIRE" ALERT DISPLAYED
OR SEVERE DAMAGE SUSPECTED
NO (CONTINUED)

Transponder......TA

NOTES: For single engine approach, do not select a flap setting beyond 25°. PNF centers rudder trim at PF's command prior to landing.

The 40° flap landing field length chart is applicable to landings with one engine inoperative at 25° flaps.

If in icing conditions, refer to Abnormal Non-Alert Procedure – ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE.

Land at nearest suitable airport.

[END]

2

NOTES: For single engine approach, do not select a flap setting beyond 25°. PNF centers rudder trim at PF's command prior to landing

The 40° flap landing field length chart is applicable to landings with one engine inoperative at 25° flaps.

If in icing conditions, refer to Abnormal Non-Alert Procedure – ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE.

Land at nearest suitable airport.

[END]

NO MASKS

PASS OXY MASK Switch EJECT & HOLD 3 to 5 SECONDS

CAUTION: Holding PASS OXY MASK switch in EJECT position in excess of 5 seconds may cause damage to the oxygen compartment latches.

[END]

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R BLEED Switch OFF
ISOL Switch
R PACK Switch OFF
TAIL AIR FOIL Anti-Ice Switch OFF
Depart icing conditions.
Prior to final approach, add 5 knots to all minimum maneuvering and approach speeds. Do not extend flaps beyond 25/EXT as a decrease in controllability may result.
[END]

TAIL TEMP__HI

If unable to depart icing conditions or if tail icing is suspected, prior to final approach add 5 knots to all minimum maneuvering and approach speeds. Do not extend flaps beyond 25/EXT as a decrease in airplane controllability may result.

After 2 minutes,

"TAIL TEMP___ HI" ALERT REMAINS DISPLAYED

NO

BLEED Switches (Both) OFF NOTE: Cabin will depressurize.

PACK Switches (Both) OFF

NOTE: Instrument cooling fan will be commanded on.

Land at nearest suitable airport.

[END]

No further crew action required.

[END]



L BLEED Switch	FF
ISOL Switch	SD
L PACK Switch	FF
WING AIR FOIL Anti-Ice Switch	FF
Avoid icing conditions.	
[END]	

4

Intentionally Blank

AIR CONDITIONING SMOKE/FUMES

Oxygen	n Masks	ON/100%
Crew Co	ommunications	ESTABLISH
	E/FUMES IN COCKPIT	
NO	L PACK Switch	OFF
	SMOKE/FUMES STOP	
	Continue flight with L PACK switch O [END]	FF.
	L PACK Switch	
y .	Switch	OFF

AIRSPEED UNRELIABLE

This procedure is <u>not</u> intended to address simple instrument malfunctions identified by an "X" flag on a display or by power loss or a blank screen.

PROCEDURE

<u>WARNING:</u> Establish control of the aircraft through pitch/thrust relationship. Disregard all alerts and warnings, <u>except stick shaker</u>, until after aircraft is stabilized and safe operations achieved.

AFS OVRD and FD Switches OFF
Aircraft Pitch/Thrust FLAPS AND/OR SLATS EXTENDED: 10° AND 80% N1 FLAPS AND SLATS UP: 4° AND 80% N1
AIR DATA HEAT Switch (Airplanes Without Service Bulletin 717-30A003 Incorporated) CYCLE (VERIFY ON)

Use the following tables to determine refined pitch/thrust relationship.

CAUTION: Apply the following as required:

- Use CLIMB table references until airplane is at a safe altitude for the projected flight path, then level off using CRUISE table.
- If in descent, ensure terrain clearance and use CLIMB and/or CRUISE table as appropriate.

CLIMB AND CRUISE BR 700-715 A1-30 Engine, 18.5K Thrust, English Units

FLIGHT	CONFIG	PRESSURE	REF WEIGHT (1000			(1000 LB)	B)
PHASE	CONFIG	ALTITUDE	KEF	130	110	90	70
CLIMB	CLIMB	5000	PITCH IAS	9.8 275	10.2 275	11.1 275	13.1 <i>275</i>
Use Max Thrust (Throttles to Max FWD Throttle Gate) UP/I CRUISE Use N1 for thrust setting		FL 100	PITCH IAS	9.2 275	9.4 275	10.2 275	11.9 <i>275</i>
		FL 150	PITCH IAS	6.4 275	6.6 275	7.2 275	8.4 275
		FL 200	PITCH IAS	5.3 275	5.4 275	5.7 275	6.6 275
	UP/RET	FL 100	PITCH N1 IAS	3.5 67.8 275	2.6 65.1 275	1.8 62.8 275	1.0 61.0 275
		FL 200	PITCH N1 IAS	3.1 76.6 275	2.3 73.7 275	1.5 71.3 275	0.7 69.4 275
		FL 300	PITCH N1 IAS	2.7 84.6 275	2.0 81.3 275	1.3 78.8 275	0.5 77.0 275
		FL 350	PITCH N1 IAS		2.7 84.2 253	1.9 80.3 253	1.0 77.4 253

(CONTINUED)

CLIMB AND CRUISE

BR 700-715 A1-30 Engines, 18.5K Thrust, Metric Units

FLGHT	CONFIG	PRESSURE	REF	WEIGHT (1000 KG)			
PHASE	CONFIG	ALTITUDE	KEF	60	50	40	30
CLIMB	UP/RET	5000	PITCH IAS	9.8 275	10.2 275	11.2 275	13.7 275
		FL 100	PITCH IAS	9.2 275	9.4 275	10.3 275	12.4 275
Use max thrust		FL 150	PITCH IAS	6.4 275	6.6 275	7.2 275	8.7 275
(Throttles to Max FWD Gate)		FL 200	PITCH IAS	5.3 275	5.4 275	5.8 275	6.8 275
CRUISE	UP/RET	FL 100	PITCH N1 IAS	3.6 68.1 275	2.6 65.1 275	1.7 62.6 275	0.8 60.8 <i>275</i>
		FL 200	PITCH N1 IAS	3.2 76.9 275	2.3 73.8 275	1.4 71.1 275	0.6 69.1 275
Use N1 for thrust setting		FL 300	PITCH N1 IAS	2.8 85.0 275	2.0 81.4 275	1.2 78.6 275	0.4 76.7 275
		FL 350	PITCH N1 IAS		2.7 84.3 253	1.8 80.0 253	0.8 77.0 253

If able, fly into and maintain VMC.

The following will be *reliable:*

- Attitude
- N1

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- · Ground speed
- Radio altimeter

ABLE TO IDENTIFY UNRELIABLE AIR DATA SOURCE

NO

AIR DATA Switch

(Unreliable Side) SELECT RELIABLE SIDE

AIR DATA RETURNS TO NORMAL

NO

AFS OVRD OFF Switch

(Reliable Side)..... NORMAL POSITION

Use autopilot and autothrottles associated with the reliable ADIRU.

Flight Directors may be engaged using the reliable ADIRU.

If ADIRU 1 is reliable,

If ADIRU 2 is reliable,

(CONTINUED)

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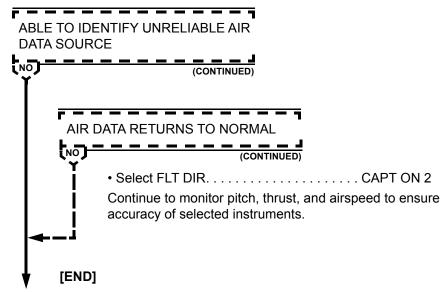
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Attitude and Thrust..... ADJUST

Refer to the appropriate table to maintain normal pitch attitude and thrust for phase of flight.

NOTE: Cruise flight at optimum altitudes may result in small margins between high and low speed buffet. If conditions permit, consider descending to a lower altitude which will provide greater margins. If a descent is desired, refer to DESCENT table located at the end of this procedure. After level off, refer to CRUISE table for pitch/thrust settings at the new altitude.

The following items <u>may</u> be <u>unreliable</u>. Verify correct indications and operation of these items before relying on them.

- · Airspeed
- Autopilot
- Autothrottles
- EPR Limit
- FMS Predictions and VNAV Computations
- FPA
- Low Speed Thrust Protection
- · Overspeed Warning and Protection
- PLI
- Static system: In addition to airspeed, static system anomalies affect the following:
 - Altimeter
 - TCAS alerts
 - Transponder mode C
 - · Vertical speed
- · Stick shaker
- TAS

(CONTINUED)

- Thrust Rating Computer Calculations
- · Wind Calculations (ND and MCDU)
- · Windshear Alerts

Use the following tables to determine pitch/thrust relation for remainder of flight.

NOTE: IAS and vertical speed (VS) values in the following tables are approximate.

When ready for approach and landing,

- If able, maintain VMC conditions.
- · Establish landing configuration early.
- · Use radio altimeter.
- If able, use a runway with descent path guidance.

DESCENT AND ARRIVAL BR 700-715 A1-30 Engines, 18.5K Thrust, English Units

FLIGHT	CONFIC	PRESSURE	DEE	WEIGHT (1000 LB)				
PHASE	CONFIG	ALTITUDE	REF	130	110	90	70	
		FL 350	PITCH IAS VS		0.1 250 -2100	-0.7 250 -2000	-1.8 250 -2200	
DESCENT		FL 300	PITCH IAS VS	1.0 250 -2100	0.2 <i>250</i> -2000	-0.8 <i>250</i> -2000	-2.0 250 -2200	
Use idle thrust	UP/RET	FL 200	PITCH IAS VS	1.6 <i>250</i> -1800	0.6 <i>250</i> -1700	-0.5 <i>250</i> -1800	-1.8 <i>250</i> -1900	
		FL 100	PITCH IAS VS	1.6 <i>250</i> -1600	0.5 <i>250</i> -1600	-0.7 250 -1700	-2.1 <i>250</i> -1900	
	UP/RET	5000	PITCH N1 IAS	4.8 62.4 249	4.9 58.2 229	4.9 54.1 207	5.0 49.1 182	
	0/EXT	3000	PITCH N1 IAS	9.7 64.2 195	9.7 59.8 <i>179</i>	9.7 54.6 <i>162</i>	9.7 49.5 143	
ARRIVAL LVL FLT	0/EXT	1500	PITCH N1 IAS	9.7 63.2 195	9.7 58.6 179	9.7 53.6 162	9.7 48.5 143	
Use N1 for thrust setting	13/EXT	1500	PITCH N1 IAS	9.5 65.6 <i>17</i> 3	9.5 61.2 <i>15</i> 9	9.5 56.0 <i>144</i>	9.5 50.4 127	
	18/EXT	1500	PITCH N1 IAS	8.9 66.6 <i>170</i>	8.9 62.1 <i>156</i>	8.9 57.0 <i>141</i>	8.9 51.2 <i>125</i>	
	25/EXT	1500	PITCH N1 IAS	8.2 72.0 167	8.2 67.1 <i>15</i> 3	8.2 61.6 <i>1</i> 39	8.2 55.4 122	
	40/EXT	1500	PITCH N1 IAS	6.6 76.7 163	6.6 72.3 150	6.6 66.4 136	6.6 59.8 120	

(CONTINUED)

APPROACH AND GO AROUND BR 700-715 A1-30 Engines, 18.5K Thrust, English Units

FLIGHT	CONFIG	PRESSURE	REF	W	EIGHT	(1000 L	B)
PHASE	CONFIG	ALTITUDE	KEF	130	110	90	70
APPROACH	25/EXT GEAR		PITCH N1	4.7 60.4	4.5 56.2	4.2 52.0	3.8 47.2
IAS Approx	DOWN	DESCENT	IAS	169	157	143	128
Vref + 15 Use N1 for	40/EXT GEAR		PITCH N1	3.0 67.0	2.8 62.7	2.5 58.1	2.1 52.4
thrust setting	DOWN IAS 166 154 140 12 Maintain pitch and adjust power to maintain glide path.				126		
	13/EXT	SEA LVL	PITCH IAS	18.0 <i>166</i>	20.2 154	23.3 140	28.1 <i>126</i>
GO AROUND	13/EXT	5000	PITCH IAS	16.8 <i>166</i>	18.7 <i>154</i>	21.6 <i>140</i>	26.0 126
Vref 40 + 15	18/EXT	SEA LVL	PITCH IAS	16.8 <i>166</i>	18.9 <i>154</i>	22.1 140	26.9 126
	18/EXT	5000	PITCH IAS	15.5 166	17.5 <i>154</i>	20.4 140	24.8 126

[END]

ALL ENGINE FLAMEOUT

START PUMP Switch.....ON Windmill start envelope is Vmo to 250 KIAS. A minimum N2 of 8% is required for air start. Higher airspeeds increase N2 rpm and improve air start capability. Throttles..... IDLE FUEL Switches OFF THEN ON ONE OR BOTH ENGINES START GEN Switch(es) RESET/ON NOTE: If both generators remain off, refer to Abnormal Alert Procedures under ELEC - GEN ALL OFF OR TOTAL LOSS OF AC POWER. ONE GENERATOR REMAINS OFF GEN Switch (Inoperative Generator).....OFF (CONTINUED)

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Continue start attempts.

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NOTE: A minimum N2 of 8% is required for air start. Higher airspeeds increase N2 rpm and improve air start capability.

If repeated start attempts are unsuccessful, refer to ABNORMAL NON-ALERT Procedure – DITCHING OR CRASH LANDING. **[END]**

EMERGENCY DESCENT

CAUTION: Descent not to exceed 10° pitch or 30° bank.

NO SMOKE/SEAT BELTS Switches	ON
Altitude Select Knob	REDUCE/PULL
Commence IAS/MACH SEL descent.	
Speed Brakes	EXTEND
(CONTINUED)	

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EMERGENCY DESCENT (Continued)

STRUCTURAL DAMAGE KNOWN OR SUSPECTED

NO

Descent Speed ESTABLISHED (0.75 M/275 KIAS)

CAUTION: Known failures affecting structural integrity and/or turbulence may dictate more conservative speed profiles or entry maneuvers.

[END]

Descent Speed ESTABLISHED (0.80 M/320 KIAS) [END]

ENGINE FAIL/SHUTDOWN IN FLIGHT

RESTART DESIRED



Refer to Abnormal Non-Alert Procedure - ENGINE RESTART IN FLIGHT.

[END]

PACK Switch (Affected Engine)......OFF
BLEED Switch (Affected Engine).....OFF
PACK SHUTDOWN Switch.....AS REQUIRED
Transponder.....TA
AUX and TRANS HYD PUMPS Switches...AS REQUIRED

NOTES: For single engine approach, do not select a flap setting beyond 25°. PNF centers rudder trim at PF's command prior to landing

The 40° flap landing field length chart is applicable to landings with one engine inoperative at 25° flaps.

If in icing conditions, refer to Abnormal Non-Alert Procedure – ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE.

Land at nearest suitable airport.

[END]

REVERSER DEPLOYED OR "U/L" OR "REV" DISPLAYED IN FLIGHT

NOTE: Engine thrust will be reduced to idle whenever respective EEC detects uncommanded reverser deployment.

Take immediate corrective action as necessary to maintain airplane control. Autopilot/Autothrottles..... OFF Reverser Levers FULL DOWN (FWD IDLE) "U/L" OR "REV" REMAINS DISPLAYED OR AIRPLANE BUFFETING OR TRIM **CHANGE** NO FUEL Switch (Affected Engine) OFF Refer to ENGINE FAIL/SHUTDOWN IN FLIGHT, in this section. Set autopilot and autothrottles as desired. Use 25° flaps for landing. Land at nearest suitable airport. [END] Operate engine at idle. Recommend autothrottles off. Set autopilot as desired. Use 25° flaps for landing. Land at nearest suitable airport.

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[END]

SMOKE / FIRE / FUMES

DIVERSION MAY BE REQUIRED.

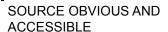
The following steps are initial actions.

Oxygen Masks/Smoke Goggles (If Required) ON/100%

Use emergency oxygen pressure as required to purge mask of smoke / fumes.

GALLEY Switch OFF

Any time smoke or fumes become the greatest threat, refer to SMOKE/FUMES REMOVAL – COCKPIT UNPRESSURIZED, in this section, or to Abnormal Non-Alert procedure, CABIN SMOKE/FUMES REMOVAL, as appropriate.



NO.

Isolate and extinguish the source. If possible, remove power from affected equipment by switch or circuit breaker on flight deck or in cabin.

SOURCE VISUALLY CONFIRMED EXTINGUISHED AND SMOKE / FUMES DECREASING

NO

Flight may be continued at Captain's discretion.

At Captain's discretion,

[END]

<u>WARNING:</u> Consider an immediate landing if smoke, fire, or fumes become uncontrollable.

Consider the following:

- · Overweight landing.
- · Tailwind landing.
- Off-airport landing.
- · Ditching.
- Do not delay landing in order to accomplish Emergency or Abnormal procedures.

(CONTINUED)

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Time permitting and at Captain's discretion, review OPERATIONAL CONSIDERATIONS, located at the end of this procedure.

[END]

Do not delay landing in an attempt to complete all of the following steps.

The following steps isolate the left side air and center electrical.

ISOL Switch	LSD
L PACK Switch	OFF
EMER LIGHT Switch	OFF
DC BUS TIE SwitchOI	PEN
L and R BUS TIE Switches OI	PEN
Emergency PowerVERIFY	ON

CAUTION: Battery power cannot be relied upon for more than 60 minutes. Do not start APU. Battery is not being charged.

NOTE: Emergency power will be automatically activated when the left and right tie switches are opened.

Evaluate smoke/fumes for up to 2 minutes.

CAUTION: If smoke and/or fumes increase during waiting period, proceed immediately to next step.

SMOKE AND/OR FUMES DECREASE

NO

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Time permitting and at Captain's discretion, review OPERATIONAL CONSIDERATIONS and INOPERATIVE EQUIPMENT LIST A, located at the end of this procedure.

Land at nearest suitable airport with affected equipment inoperative.

[END]

L BLIS TIE Switch

The following steps restore left side air and center electrical as well as isolate right side air and electrical.

L BOS TIL SWIGHTAUTO
L PACK Switch AUTO
Observe AIR synoptic. Continue when left pack symbol is green.
R PACK Switch OFF
ATC Switch (Transponder) SELECT 1
Communication Radio Panel
NOTE: Select HF-1 if installed and required.
AUTO FLIGHT (If Desired)
(CONTINUED)

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ΔΙΙΤΟ

SMOKE / FIRE / FUMES (Continued)
Captain's Flight Displays VERIFY NORMAL
NOTE: DUs 4 and 5 will become unpowered. ND is selectable to DU 2 with SDCP.
R GEN Switch OFF
NOTE: A MASTER CAUTION light will illuminate and momentary stick shaker may occur.
"SELECT FADEC ALTN" Level 2 alert may be displayed. No action is recommended until the final configuration is reached, and then only if time permits.
Evaluate smoke/fumes for up to 2 minutes.
CAUTION: If smoke and/or fumes increase during waiting period, proceed immediately to next step.
SMOKE AND/OR FUMES DECREASE
NO
Time permitting and at Captain's discretion, review OPERATIONAL CONSIDERATIONS and INOPERATIVE EQUIPMENT LIST B, located at the end of this procedure. FADEC will not reset. Time permitting, move both FADEC mode switches to ALTN.
Land at nearest suitable airport with affected equipment inoperative. [END]
The following actions restore right side air and electrical as well as isolate left side electrical.
R GEN Switch
NOTE: It may take up to 2 minutes for the FCC to reboot and function normally. Momentary stick shaker may occur.
R PACK Switch AUTO ISOL Switch AUTO R BUS TIE Switch AUTO L BUS TIE Switch OPEN ATC Switch (Transponder) SELECT 2 AUTO FLIGHT (If Desired). SELECT AP2 F/O's Flight Displays VERIFY NORMAL
NOTES: Before proceeding to the next step, allow sufficient time for F/O's repowered flight instruments to resume normal function.
DU 6 will become unpowered.
L GEN SwitchOFF
NOTE: A MASTER CAUTION light will illuminate and momentary stick shaker may occur.
CABIN INTERPHONE Switch (Airplanes Without Service Bulletin 717-33-0019 Incorporated)

incorporated: If required, contact flight attendant using PA.

NOTE: Airplanes without Service Bulletin 717-33-0019

(CONTINUED)

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SMOKE / FIRE / FUMES (Continued)

Evaluate smoke/fumes for up to 2 minutes.

CAUTION: If smoke and/or fumes increase during waiting period, proceed immediately to next step.

SMOKE AND/OR FUMES DECREASE

NO

Time permitting and at Captain's discretion, review OPERATIONAL CONSIDERATIONS and INOPERATIVE EQUIPMENT LIST C, located at the end of this procedure.

FADEC will not reset. Time permitting, move both FADEC mode switches to ALTN.

Land at nearest suitable airport with affected equipment inoperative.

[END]

The following actions restore left side electrical.

L GEN Switch ON
NOTE: It may take up to 2 minutes for the FCC to reboot and function normally. Momentary stick shaker may occur.
DC BUS TIE Switch
L BUS TIE Switch
EMER PWR Selector OFF THEN ARM
EMER LIGHT SwitchARM
If required, and if time permits, perform Abnormal Alert Procedure under

ENG – SELECT FADEC ALTN. Land at nearest suitable airport.

Time permitting and at Captain's discretion, review OPERATIONAL CONSIDERATIONS list below.

OPERATIONAL CONSIDERATIONS

- · Declare an emergency.
- Accomplish SMOKE/FUMES REMOVAL procedure, in this section, or Abnormal Non-Alert procedure, CABIN SMOKE/FUMES REMOVAL, as required.
- Expedite descent/arrival.
- · Request radar vector direct final approach.
- Do not delay approach and landing.
- · Overweight landing may be necessary.
- Tailwind landing may be necessary.
- · Off-airport landing may be necessary.
- Ditching may be necessary.
- Consider use of AUTOLAND (if available).
- Use appropriate braking for conditions.

After stopping aircraft, evaluate performing Abnormal Non-Alert procedure, PASSENGER EVACUATION.

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SMOKE / FIRE / FUMES (Continued)

Inoperative Equipment List A

Vacuum waste system.

Inoperative Equipment List B

- FCC-2 (expect MASTER CAUTION and momentary stick shaker).
- · Autopilot-2.
- · Autothrottles-2.
- · Some anti-ice capability (depart icing conditions).
- DUs 4 and 5.
- MCDU-2.
- Comm radio-2.
- NAV radios-2.
- · Weather radar.
- · Autopilot and alternate longitudinal trim.
- · Aileron and rudder trim.
- · Stick pusher control.
- · Right HYD pressure and quantity indicators.
- · Right windshield wiper.
- · Auto ground spoilers.

Inoperative Equipment List C

- Call chime (airplanes without Service Bulletin 717-33-0019 incorporated).
- FCC-1 (expect MASTER CAUTION and momentary stick shaker).
- · Autopilot-1.
- · Autothrottles-1.
- · Primary stabilizer trim.
- · Some anti-ice capability (depart icing conditions).
- DU 6
- TCAS.
- · GPWS.
- · Left windshield wiper.
- · Landing gear indicator lights.
- · Left HYD pressure and quantity indicators.
- Captain and F/O SIS panels.

[END]

SMOKE/FUMES REMOVAL - COCKPIT UNPRESSURIZED

Oxygen Masks	ON/100%
NOTE: Use EMER as necessary to smoke/fumes.	o purge the mask of
Crew Communications	REDUCE TO 165 KIAS
CAUTION: Noise level with a win from hearing CAWS alerts.	ndow open may prevent crew
[END]	
SPOILER	FLOAT
NOTE: Spoiler float is indicated whe extension of flaps beyond 25°.	
FLAP/SLAT Handle	RETRACT TO 25/EXT
STABILIZER	RUNAWAY
CAUTION: Avoid manual pitch in disconnected.	nputs until the autopilot is
NOTE: Extended trim operation moshutdown. Trim motor operation cooling period.	•
Autopilot (If Engaged)	DISCONNECT
If stabilizer runaway continues,	
Control Wheel Trim Switches T	RIM OPPOSITE DIRECTION OF RUNAWAY AS NECESSARY
RUNAWAY STOPPED WHEN AUTOPILOT WAS DISCONNECTED	=
Do not reengage autopilot. Use Do not exceed 0.78M. [END]	e primary trim for remainder of flight
STABILIZER MOVES IN OPPOSITE DIRECTION OF RUNAWAY	¬
NO	=
AUTOPILOT & ALTERNATE L TRIM C/Bs D-9, D-10, D-11 (U	Ipper EPC) OPEN (PULL)
Continue flight using primary to Do not exceed 0.78M. (CONTIN	·

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717 QRH Emergency Procedures TBC

STABILIZER RUNAWAY (Continued)

STABILIZER MOVES IN OPPOSITE **DIRECTION OF RUNAWAY** Autopilot is available, but autotrim and mach trim functions are inoperative. After trimming, autopilot may be engaged, but should be disconnected / retrimmed periodically as needed. [END] STABILIZER TRIM (Guarded) Switch OFF (PUSH) Continue flight using alternate trim system. Autopilot is available.

[END]

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<u>System</u>	<u>Prefix</u>
Air	AP.10
Config	AP.20
Elec	AP.30
Eng	AP.40
Fuel	AP.50
Hyd	AP.60
Misc	AP.70
Non Alast	AD 90

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AIR SYSPRES LO AVNCS AIR FLO OFF BLD AIRTEMP HI BLD AIRTEMP LO	1
BLEED AIRFAIL CABIN DUCT OVHT CABIN INFLO LO CABIN PRES HI CABIN PRESSURIZED CKPT DUCT OVHT PACKOVERHEAT	2
TAIL A-ICE DISAG TAIL A-ICE OFF WING A-ICE DISAG WING A-ICE OFF	3

Intentionally Blank

AIR SYS__PRES LO

AIR OTOI REO EO
BLEED Switch (Affected Engine)OFF
PACK Switch (Affected Engine)OFF
NOTE: If operating in icing conditions, refer to ABNORMAL NON-ALERT Procedure – ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE.
[END]
AVNCS AIR FLO OFF
AIRPLANE ON GROUND
NO
Call maintenance. [END]
AVIONICS COOLING SwitchOVRD
After landing, shut down all unnecessary radio and electronic equipment as soon as possible.
CAUTION: Prolonged use of electronic equipment on the ground with the avionics fan inoperative will cause overheating and could damage equipment.
[END]
BLD AIRTEMP HI
BLEED Switch (Affected Engine)OFF
PACK Switch (Affected Engine)OFF
NOTE: If operating in icing conditions, refer to ABNORMAL NON-ALERT Procedure – ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE.
[END]
BLD AIRTEMP LO
ThrottlesADVANCE
"BLD AIRTEMP LO" ALERT DISPLAYED
NO
Y
BLEED Switch (Affected Engine) OFF PACK Switch (Affected Engine)
NOTE: If operating in icing conditions, refer to
ABNORMAL NON-ALERT Procedure – ANTI-ICE
OPERATION WITH SINGLE PNEUMATIC
SOURCE. ▼ [END]
[END]
[=ito]

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Abnormal Procedures 717 QRH

BLEED AIR FAIL

BLEED Switch (Affected Engine) OFF PACK Switch (Affected Engine) OFF NOTE: If operating in icing conditions, refer to ABNORMAL NON-ALERT Procedure - ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE. [END] **CABIN DUCT OVHT** MAN COLD [END] **CABIN INFLO LO** If throttles are at low power (conditions permitting) advance throttles until air conditioning pack supply is normal. "CABIN INFLO LO" ALERT DISPLAYED/CABIN CONTINUES TO **DEPRESSURIZE** NO Descend to an altitude where adequate pressurization can be maintained. [END] No further crew action required. [END]

CABIN PRES HI

CABIN PRESS SYSTEM Switch	
CABIN OUTFLOW VALVE MOVES TOWARD OPEN	
Adjust cabin altitude to normal schedule. [END]	2
Terrain and conditions permitting,	
Descent (To 10,000 Feet) INITIATE	
L or R PACK Switch OFF	
When below 10,000 feet,	
PACK Switches (Both)	
NOTE: Cabin altitude may be below sea level. When cabin altitude indicates 2,000 feet above destination altitude, continue descent, approach and landing.	
RAM AIR SwitchON	
After landing,	
Clearview Window(s)OPEN	
NOTES: Air conditioning may be resumed for passenger comfort.	
Do not close clearview window(s) after restarting air conditioning system(s).	
[END]	
<u> </u>	
CABIN PRESSURIZED	
CABIN PRESSURIZED CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	
CABIN PRESS SYSTEM Switch	

TAIL A-ICE DISAG

CAUTION: Leading edge of horizontal stabilizer may be damaged if tail anti-ice is operated on the ground.

AIRPLANE ON GROUND NO. APU AIR Switch OFF R BLEED Switch OFF TAIL AIR FOIL Anti-Ice Switch OFF [END] TAIL AIR FOIL ANTI-ICE SWITCH ON NO. Depart icing area. TAIL AIR FOIL Anti-Ice Switch OFF Use 25/EXT flaps for landing. Prior to final approach, add 5 knots to all Vmin and Vapp speeds, not to exceed Vref + 20. Do not extend flaps beyond 25/EXT since a decrease in airplane controllability may result. [END] Assume tail anti-ice is on. After landing, Do not pressurize right pneumatic system. Do not move APU AIR switch to ON. [END] **TAIL A-ICE OFF** Depart icing conditions. After departing icing conditions, TAIL AIR FOIL Anti-Ice Switch..... OFF

Prior to final approach, add 5 knots to all Vmin and Vapp speeds, not to exceed Vref + 20. Do not extend flaps beyond 25/EXT since a decrease in airplane controllability may result.

[END]

2

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WING A-ICE DISAG

CAUTION: Slats may be damaged if wing anti-ice is operated on the ground.

AIRPLANE ON GROUND	
L BLEED Switch	CLSD
WING AIR FOIL ANTI-ICE SWITCH ON	
Depart icing area. WING AIR FOIL Anti-Ice Switch	OFF
After landing,	
L BLEED Switch	
Assume wing anti-ice is on.	
Do not pressurize left pneumatic system. [END]	
WING A-ICE OFF	
WING AIR FOIL Anti-Ice Switch	OFF
Avoid icing conditions.	

October 15, 2016

[END]

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<u>System</u>	<u>Prefix</u>
Air	AP.10
Config	AP.20
Elec	AP.30
Eng	AP.40
Fuel	AP.50
Hyd	AP.60
Misc	AP.70
Non-Alort	AD 90

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ANTISKIDFAIL	1
BRAKE OVERHEAT ELEVATOR SPLIT FLAP DISAG	2
GEAR DOOR OPEN	3
RUDDER LIM FAIL SLAT DISAG	4

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ANTISKID FAIL

Landing Performance	CHECK
Perform normal landing.	
Brakes	APPLY SMOOTHLY AND GRADUALLY

CAUTION: Do not initiate manual braking until nosewheel is on the runway and the ground spoilers have fully deployed.

Use maximum landing flaps. Consider reducing airplane weight. Select longest runway available for existing conditions. Use full reverse thrust while applying brakes smoothly and gradually until a moderate deceleration is felt. This manual braking technique is intended to prevent wheel lock up and blown tires. Refer to ESTIMATED LANDING DISTANCE tables located at the end of this procedure.

40/EXT ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

70	80	90	100	110	120
112	118	125	132	138	144
4520	4830	5150	5500	5800	6360
4020	4030	3130	5500	5090	0300
4600	5030	5370	5770	6230	6730
4090	5030	3370	3770	0230	0730
4000	5240	5620	6000	6610	7160
4000	3240	3020	0090	0010	7 100
5000	5470	5020	6460	7030	7630
5090	090 5470	3920	0400	1030	1030
5300	5730	6260	6970	7400	8150
5500	3730	0200	0070	7490	0100
5560	6050	6660	7320	7000	8710
5500	0000	0000	1320	1990	0/10
	112 4520 4690 4880 5090 5300 5560	112 118 4520 4830 4690 5030 4880 5240 5090 5470 5300 5730	112 118 125 4520 4830 5150 4690 5030 5370 4880 5240 5620 5090 5470 5920 5300 5730 6260	112 118 125 132 4520 4830 5150 5500 4690 5030 5370 5770 4880 5240 5620 6090 5090 5470 5920 6460 5300 5730 6260 6870	112 118 125 132 138 4520 4830 5150 5500 5890 4690 5030 5370 5770 6230 4880 5240 5620 6090 6610 5090 5470 5920 6460 7030 5300 5730 6260 6870 7490

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C	
FEET PER °C	
BELOW standard day	-10
ABOVE standard day	+36

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-16
TAILWIND	+50

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	– 50	
DOWNHILL	+50	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+36	

717 QRH

(CONTINUED)

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40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	112	118	125	132	138	144
S.L. STD=15°C	5590	5990	6400	6830	7300	7820
Landing Distance	3390	3990	0400	0030	7300	7020
2000 FT STD=11°C	5830	6250	6690	7180	7700	8260
Landing Distance	3030	0230	0090	7 100	7700	0200
4000 FT STD=7°C	6080	6540	7020	7570	8150	8760
Landing Distance	0000	0340	7020	1310	0130	8700
6000 FT STD=3°C	6370	6840	7390	8000	8640	9300
Landing Distance	0370	0040	7390	8000	0040	9300
8000 FT STD=-1°C	6660	7200	7810	8480	9170	9890
Landing Distance	0000	7200	7010	0400	3170	9090
10000 FT STD=-5°C	6990	7590	8270	9000	9750	10540
Landing Distance	0990	1 380	0270	9000	9130	10340

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C	
FEET PER °C	
BELOW standard day	-14
ABOVE standard day	+44

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-28
TAILWIND	+98

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	-158	
DOWNHILL	+170	

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PE	ER KIAS		
ABOVE VREF	+44		

(CONTINUED)

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ANTISKID___FAIL (Continued)

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	112	118	125	132	138	144
S.L. STD=15°C	6510	7000	7500	8030	8605	9240
Landing Distance	0310	7000	7300	0030	0003	3240
2000 FT STD=11°C	6815	7330	7860	8435	9055	9730
Landing Distance	0015	7 330	7000	0400	9000	3130
4000 FT STD=7°C	7145	7695	8265	8885	9555	10280
Landing Distance	7 140	1095	0203	0000	9000	10200
6000 FT STD=3°C	7510	8085	8710	9385	10105	10880
Landing Distance	7510	0000	0710	9303	10103	10000
8000 FT STD=-1°C	7900	8530	9210	9930	10700	11485
Landing Distance	7 900	0000	9210	9930	10700	11400
10000 FT STD=-5°C	8335	9020	9750	10530	11320	††
Landing Distance	0333	9020	9130	10000	11320	11

^{††} Landing distance exceeds 12000 feet

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –
FEET PER °C	
BELOW standard day	-16
ABOVE standard day	+53

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND	-40		
TAILWIND	+134		

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER	1% SLOPE			
UPHILL	– 277			
DOWNHILL	+326			

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PE	ER KIAS	
ABOVE VREF	+53	

ANTISKID___FAIL (Continued)

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	112	118	125	132	138	144
S.L. STD=15°C	7430	8010	8600	9230	9910	10660
Landing Distance	7430	0010	0000	9230	3310	10000
2000 FT STD=11°C	7800	8410	9030	9690	10410	11200
Landing Distance	7800	0410	9030	9090	10410	11200
4000 FT STD=7°C	8210	8850	9510	10200	10960	11800
Landing Distance	0210	0000	9310	10200	10900	11000
6000 FT STD=3°C	8650	9330	10030	10770	11570	12460
Landing Distance	8030	9330	10030	10770	11370	12400
8000 FT STD=-1°C	9140	9860	10610	11380	12230	††
Landing Distance	9140	9000	10010	11300	12230	11
10000 FT STD=-5°C	9680	10450	11230	12060	††	††
Landing Distance	9000	10430	11230	12000		11

^{††} Landing distance exceeds 12000 feet

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –
FEET PER °C	
BELOW standard day	-18
ABOVE standard day	+62

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND	-52		
TAILWIND	+170		

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER	1% SLOPE			
UPHILL	-396			
DOWNHILL	+482			

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PI	ER KIAS		
ABOVE VREF	+62		

ANTISKID___FAIL (Continued)

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

110 120	100	90	80	70	WEIGHT (1000 LB)
138 144	132	125	118	112	Vref Speeds (KIAS)
11685 ++	10915	10170	9445	8740	S.L. STD=15°C
11685 ††	10915	10170	3443	0740	Landing Distance
++ ++	11470	10685	9920	9175	2000 FT STD=11°C
†† ††	11470	10000	9920	91/5	Landing Distance
++ ++	12055	11245	10450	9665	4000 FT STD=7°C
	12055	11243	10450	9000	Landing Distance
11 11	††	11825	11000	10190	6000 FT STD=3°C
	11	11023	11000	10190	Landing Distance
++ ++	++	12/25	11575	10740	8000 FT STD=-1°C
†† ††	11	12433	113/3	10740	Landing Distance
11 11	++	++	12190	11215	10000 FT STD=-5°C
	11	11	12 100	11313	Landing Distance
††	††	12435 ††	11575 12180	10740	Landing Distance 10000 FT STD=-5°C

^{††} Landing distance exceeds 12000 feet

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –				
FEET PER °C					
BELOW standard day	-21				
ABOVE standard day	+74				

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-69	
TAILWIND	+243	

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL –702				
DOWNHILL +1024				

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF +74				

ANTISKID FAIL (Continued)

40/EXT ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	112	118	125	132	138	144
S.L. STD=15°C	10050	10880	11740	††	††	††
Landing Distance	10000	10000	11740	''	11	11
2000 FT STD=11°C	10550	11430	††	††	††	††
Landing Distance	10330	11430	- 11	''	11	- ' '
4000 FT STD=7°C	11120	††	††	††	††	††
Landing Distance	11120	- ' '	- 11	''	11	- ' '
6000 FT STD=3°C	11730	††	††	††	††	††
Landing Distance	11730	- ' '	- 11	''	11	''
8000 FT STD=-1°C	††	††	††	††	††	††
Landing Distance	''	11	- 11	''	11	''
10000 FT STD=-5°C	††	††	††	††	††	++
Landing Distance	''	11	11	''	11	††

^{††} Landing distance exceeds 12000 feet.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C			
FEET PER °C			
BELOW standard day	-24		
ABOVE standard day	+86		

SLOPE: Valid from –2% downhill to +2% uphill					
FEET PER 1% SLOPE					
UPHILL -1008					
DOWNHILL +1566					

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-86	
TAILWIND	+316	

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF	+86			

[END]

BRAKE OVERHEAT

NOTE: "BRAKE OVERHEAT" alert displays when any one brake temperature exceeds 260°C and extinguishes when brakes cool to 230°C.

AIRPLANE ON GROUND

NO

Stop airplane as soon as practical. Do not set parking brake.

<u>WARNING:</u> Ground crew must remain clear of main gear. Fuse plugs may melt.

NOTE: Brakes, wheels and tires will require maintenance inspection before next flight.

[END]

(CONTINUED)

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Abnormal Procedures

TBC

BRAKE OVERHEAT (Continued)



Flight conditions permitting, extend gear until 5 minutes after "BRAKE OVERHEAT" alert extinguishes.

[END] 2

ELEVATOR SPLIT

Airspeed......REDUCE

CAUTION: Avoid abrupt elevator inputs.

"ELEVATOR SPLIT" ALERT DISPLAYED BELOW 240 KIAS

NO

Do not exceed 240 KIAS.

[END]

Do not exceed speed at which alert extinguished.

[END]

FLAP DISAG

Return FLAP/SLAT handle to position where alert was not displayed or, if alert remains displayed, select the most symmetrical configuration and land.

NOTE: Refer to LANDING REFERENCE SPEEDS, VREF table in the PERFORMANCE section of the QRH.

FINAL FLAP SETTING 25° OR MORE

NO

Perform normal landing.

[END]

Refer to ESTIMATED LANDING DISTANCE tables located at the end of this procedure.

NOTE: Auto Ground Spoilers are inoperative with flaps less than 25 degrees. Ground spoilers must be manually deployed.

GND PROX WARN Switch FLAP OVRD Prior to 50 feet AGL.

Autothrottles......DISCONNECT

NOTE: Autothrottle retard mode is not available when flaps are less than 25°.

(CONTINUED)

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TBC Abnormal Procedures 717 QRH
April 15, 2017 AP.20.7

0/RET ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	4240	4630	5010	5380	5780	**
Landing Distance	4240	4030	3010	3300	3700	
2000 FT STD=11°C	4420	4820	5230	5620	6040	**
Landing Distance	4420	4020	3230	3020	0040	
4000 FT STD=7°C	4610	5030	5460	5880	**	**
Landing Distance	4010	3030	3460	3000		
6000 FT STD=3°C	4810	5260	5700	6140	**	**
Landing Distance	4010	3200	3700	0140		
8000 FT STD=-1°C	5020	5490	5970	6430	**	**
Landing Distance	3020	3490	3970	0430		
10000 FT STD=-5°C	5250	5750	6250	6780	**	**
Landing Distance	3230	3730	0230	0700		

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C			
FEET PER °C			
BELOW standard day	-10		
ABOVE standard day	+34		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-16	
TAILWIND	+50	

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL –50		
DOWNHILL	+50	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+34	

^{**} Maximum Brake Energy Limit.

0/RET ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	5450	6110	6790	7500	8210	**
Landing Distance	3430	0110	0730	7 300	0210	
2000 FT STD=11°C	5760	6460	7200	7950	8720	**
Landing Distance	3700	0400	7200	7930	0720	
4000 FT STD=7°C	6090	6850	7640	8440	**	**
Landing Distance	0090	0030	7040	0440		
6000 FT STD=3°C	6450	7270	8110	8980	**	**
Landing Distance	0430	1210	0110	0900		
8000 FT STD=-1°C	6840	7720	8630	9580	**	**
Landing Distance	0040	1120	0030	9360		
10000 FT STD=-5°C	7280	8230	9210	**	**	**
Landing Distance	1200	0230	9210			

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C	
FEET PER °C	
BELOW standard day -14	
ABOVE standard day +50	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND -32	
TAILWIND +108	

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL –176		
DOWNHILL	+50	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+50	

^{**} Maximum Brake Energy Limit.

FLAP DISAG (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	6340	7145	7980	8850	9720	**
Landing Distance	0340	7 145	7 900	0030	9720	
2000 FT STD=11°C	6710	7570	8460	9385	10320	**
Landing Distance	07 10	7570	0400	9303	10320	
4000 FT STD=7°C	7105	8030	8980	9965	**	**
Landing Distance	7 103	6030	0900	9905		
6000 FT STD=3°C	7535	8525	9540	10600	**	††
Landing Distance	7555	0323	9340	10000		11
8000 FT STD=-1°C	8010	9065	10155	11245	††	††
Landing Distance	0010	9000	10155	11243	11	11
10000 FT STD=-5°C	8530	9670	10840	††	tt	††
Landing Distance	0000	9070	10040	11	11	11

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C	
FEET PER °C	
BELOW standard day -17	
ABOVE standard day +59	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-45
TAILWIND	+148

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL –308		
DOWNHILL	+293	

VREF: Valid from 1 knot to 20 knot above Vref	
FEET PER KIAS	
ABOVE VREF	+59

(CONTINUED)

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^{**} Maximum Brake Energy Limit.

^{††} Landing distance exceeds 12000 feet.

0/RET ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	7230	8180	9170	10200	11230	††
Landing Distance	7230	0100	3170	10200	11230	11
2000 FT STD=11°C	7660	8680	9720	10820	11920	††
Landing Distance	7000	0000	9720	10020	11920	11
4000 FT STD=7°C	8120	9210	10320	11490	††	††
Landing Distance	0120	9210	10320	11430	11	11
6000 FT STD=3°C	8620	9780	10970	††	††	††
Landing Distance	0020	9760	10970	11	11	11
8000 FT STD=-1°C	9180	10410	11680	++	++	++
Landing Distance	9160	10410	11000	††	††	††
10000 FT STD=-5°C	9780	11110	††	tt	††	††
Landing Distance	9100	11110	11	11	11	11

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C				
FEET PER °C				
BELOW standard day -20				
ABOVE standard day	+68			

WIND: Valid from –10 knot tailwind to +20 knot headwind				
FEET PER KNOT				
HEADWIND -58				
TAILWIND +188				

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL –440				
DOWNHILL	+536			

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF +68				

^{††} Landing distance exceeds 12000 feet.

FLAP DISAG (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	8490	9655	10840	††	††	††
Landing Distance	0430	3033	10040	- ' '	11	- ' '
2000 FT STD=11°C	9005	10250	11505	††	††	††
Landing Distance	9005	10230	11303	11	11	'''
4000 FT STD=7°C	9555	10860	††	††	††	††
Landing Distance	9000	10000	'''	- 11	11	'''
6000 FT STD=3°C	10150	11835	††	††	††	††
Landing Distance	10130	11033	11	- ' '	- 11	'''
8000 FT STD=-1°C	10810	††	††	††	††	††
Landing Distance	10010	- ' '	11	- ' '	- 11	'''
10000 FT STD=-5°C	11470	tt	††	tt	††	††
Landing Distance	11470	11	11	11	11	11

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C				
FEET PER °C				
BELOW standard day -24				
ABOVE standard day	+82			

WIND: Valid from -10 knot tailwind to +20 knot headwind				
FEET PER KNOT				
HEADWIND -77				
TAILWIND +270				

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL –782				
DOWNHILL +1142				

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF +82				

(CONTINUED)

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^{††} Landing distance exceeds 12000 feet.

0/RET ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

70					
70	80	90	100	110	120
158	170	180	190	*199	*208
0750	11120	++	++	++	††
9750	11130	11	11		
10250	11020	++	++	++	++
10330	11020	11	11	11	††
10000	++	++	++	++	++
10990	' '	11	11	''	††
11690	++	++	++	++	††
11000	11	11	11	11	11
++	++	++	++	++	++
11	11	11	11	11	††
++	++	++	++	++	++
11	11	11	11	11	††
		158 170 9750 11130 10350 11820 10990 †† 11680 †† †† ††	158 170 180 9750 11130 †† 10350 11820 †† 10990 †† †† 11680 †† †† †† †† ††	158 170 180 190 9750 11130 †† †† 10350 11820 †† †† 10990 †† †† †† 11680 †† †† †† †† †† †† ††	158 170 180 190 *199 9750 11130 †† †† †† 10350 11820 †† †† †† 10990 †† †† †† †† 11680 †† †† †† †† †† †† †† ††

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C					
FEET PER °C					
BELOW standard day -28					
ABOVE standard day	ABOVE standard day +96				

WIND: Valid from –10 knot tailwind to +20 knot headwind				
FEET PER KNOT				
HEADWIND -96				
TAILWIND	+352			

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL –1124				
DOWNHILL +1748				

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF	+96		

[END]

GEAR DOOR OPEN

NOTE: This procedure should be used when hydraulic pressure is normal and gear handle is down.

(CONTINUED)

3

^{††} Landing distance exceeds 12000 feet.

GEAR DOOR OPEN (Continued)

Emergency Gear Extension Lever PULL FULL UP/LATCHED

Raise cover, forcibly pull emergency gear extension lever to full up position and check holding latch is engaged.

NOTE: Nosewheel steering to left will be restricted.

CAUTION: Stop airplane straight ahead on runway and establish communication with maintenance personnel. Do not stow emergency gear extension lever or move airplane unless directed to do so by maintenance. Maintenance personnel must close and latch main gear doors manually. Landing gear pins must be installed prior to taxi or tow.

[END]

RUDDER LIM FAIL

Avoid abrupt rudder inputs.

Avoid high sideslips if flaps are less than 5 degrees.

[END]

SLAT DISAG

NOTE: If slat asymmetry is indicated any time by a lateral trim change, return FLAP/SLAT handle to the last position where slats were symmetrical.

ALERT DISPLAYED DURING ATTEMPTED EXTENSION

NO.

FLAP/SLAT Handle UP/RET Refer to Abnormal Non-Alert Procedure - NO FLAP/NO SLAT OR NO FLAPS/SLATS EXTENDED LANDING.

[END]

Plan normal flap/slat landing.

[END]

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TBC

Abnormal Procedures AP.20.14 April 15, 2017

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<u>System</u>	<u>Prefix</u>
Air	AP.10
Config	AP.20
Elec	AP.30
Eng	AP.40
Fuel	AP.50
Hyd	AP.60
Misc	AP.70
Non-Alast	4 D 00

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AP.Tab.30.2

BUS DC XFER OFF BUS AC EMER OFF BUS DC EMER OFF	1
GEN L OFF	2
GEN R OFF	3
GEN ALL OFF OR TOTAL LOSS OF AC POWER	4
GEN APU OFF	5
BUS AC GS OFF (Interim Procedure)	6

Intentionally Blank

BUS DC XFER OFF

DISPLAY UNIT 2 AND/OR STANDBY **INSTRUMENT OPERATING**

NO.

NOTE: The DC transfer bus sensing circuit has failed.

No further crew action required.

[END]

Land at nearest suitable airport.

CAUTION: Do not attempt to reset the DC TRANSFER BUS FEED circuit breakers if either or both are tripped (opened).

Engine and APU fire/overheat detection and fire extinguishing systems are inoperative.

Cargo smoke detection and fire extinguishing systems are inoperative.

Parking brake may be used, but will not hold the airplane after hydraulic systems are shut down. Confirm with ground personnel that airplane has been properly chocked before shutting down engines and hydraulic pumps.

When ready to shut down engines,

Respective Engine Fire Handle PULL

[END]

BUS AC EMER OFF

EMER PWR Selector.....

MCDU 1, AND/OR VOR 1 OPERATING

NO

NOTE: The AC emergency bus sensing circuit has failed.

No further crew action required.

[END]

Land at nearest suitable airport.

CAUTION: Do not attempt to reset EMER AC BUS FEED circuit breaker if it is tripped (opened).

[END]

BUS DC EMER OFF

EMER PWR Selector.....OFF (CONTINUED)

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BUS DC EMER OFF (Continued)

DISPLAY UNITS 1 AND/OR 3 **OPERATING** NO NOTE: The DC emergency bus sensing circuit has No further crew action required. [END] EMER LT Switch OFF Land at nearest suitable airport. CAUTION: Do not attempt to reset EMER DC BUS FEED circuit breaker if it is tripped (opened). Captain's pitot heat is inoperative. Use First Officer's airspeed as erroneous airspeed indications may occur on the Captain's PFD. "IAS" comparator message will be displayed on the PFDs if the computed difference between ADIRU 1 and ADIRU 2 airspeed exceeds a predetermined tolerance. Erroneous airspeed indications may cause abnormal autopilot/autothrottle operation. MISC flashing reminder message will be displayed on the EAD. "PITOT CAPT FAIL" level 1 alert will be displayed on the MISC S/D page. If use of autopilot is desired and available, use AP 2 due to Captain's pitot not being heated. When required, **EMERGENCY LIGHT Switch** [END] **GEN L OFF** NOTE: Airplane on ground: If alert remains displayed after one reset attempt, move affected generator switch to off and contact maintenance. "GEN L OFF" ALERT REMAINS DISPLAYED NO L GEN Switch..... OFF ELEC SYNOPTIC DISPLAYS LEFT AC AND DC BUS SYMBOLS GREEN APU (If Available) START Refer to Volume II, Supplemental Procedures, ENG/APU - APU INFLIGHT START. (CONTINUED)

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Abnormal Procedures

TBC

'GEN L OFF" ALERT REMAINS DISPLAYED (NO) ELEC SYNOPTIC DISPLAYS LEFT 2 AC AND DC BUS SYMBOLS GREEN (CONTINUED) If APU generator is available, continue flight with engine driven generator inoperative. If APU generator is **not** available, land at nearest suitable airport. [END] ELEC SYNOPTIC DISPLAYS LEFT AC BUS SYMBOL AMBER AND LEFT DC BUS SYMBOL GREEN NO Land at nearest suitable airport. CAUTION: False stall warnings (stick shaker, klaxon, "STALL" voice) may occur when "GEN L OFF" alert is displayed and left ac bus is not powered. If warnings occur, check airplane flight condition to determine if indications are valid. If "FUEL QTY SYS FAIL" alert is displayed, pushing QTY A/B switch may restore fuel quantity indications and extinguish alert. NOTES: Primary stabilizer trim is inoperative. Multiple Level 2 and Level 1 alerts will be displayed when left ac bus is unpowered. No further crew action required. [END] ELEC SYNOPTIC DISPLAYS LEFT AC AND DC BUS SYMBOLS AMBER CAUTION: Battery power cannot be relied upon for more than 60 minutes. Do not start APU. Battery is not being charged. CABIN INTERPHONE Switch (Airplanes Without NOTE: Airplanes without Service Bulletin 717-33-0019 incorporated: If required, contact flight attendant using PA. (CONTINUED)

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TBC Abnormal Procedures

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Land at nearest suitable airport.

CAUTION: False stall warnings (stick shaker, klaxon, "STALL" voice) may occur when "GEN L OFF" alert is displayed and left ac and dc buses are not powered. If warnings occur, check airplane flight condition to determine if indications are valid.

If "FUEL QTY SYS FAIL" alert is displayed, pushing QTY A/B switch may restore fuel quantity indications and extinguish alert.

NOTES: Primary stabilizer trim is inoperative.

Vmin (amber foot) may be unreliable.

Inboard spoilers will be inoperative.

Multiple Level 1 and Level 2 alerts will be displayed.

When ready to land,

Refer to LANDING REFERENCE SPEEDS (KIAS) chart in Performance section.

Gear Handle..... DOWN

Gear lights will not be illuminated.

After 30 seconds,

Emergency Gear Extension Lever RAISE/LATCH Verify gear indications on CONFIG page.

Before landing and time permitting, Emergency Gear Extension Lever may be stowed to retract and latch the main gear doors. Gear indications on CONFIG page will **not** be available after lever is stowed.

If Emergency Gear Extension Lever is not stowed, nosewheel steering to left will be restricted.

Stop on runway. Do not taxi. Verify gear doors are closed before continuing.

[END]

No further crew action required.

[END]

GEN R OFF

NOTE: <u>Airplane on ground</u>: If alert remains displayed after one reset attempt, move affected generator switch to off and contact maintenance.

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"GEN R OFF" ALERT REMAINS DISPLAYED

NO

R GEN Switch.....OFF

ELEC SYNOPTIC DISPLAYS RIGHT AC AND DC BUS SYMBOLS GREEN

NO

APU (If Available)......START

Refer to Volume II, Supplemental Procedures, ENG/APU – APU INFLIGHT START.

If APU generator is available, continue flight with engine driven generator inoperative.

If APU generator is **not** available, land at nearest suitable airport.

[END]

ELEC SYNOPTIC DISPLAYS RIGHT AC BUS SYMBOL AMBER AND RIGHT DC BUS SYMBOL GREEN

NO

Land at nearest suitable airport.

CAUTION: False stall warnings (stick shaker, klaxon, "STALL" voice) may occur when "GEN R OFF" alert is displayed and right ac bus is not powered. If warnings occur, check airplane flight condition to determine if indications are valid.

If "FUEL QTY SYS FAIL" alert is displayed, pushing QTY A/B switch may restore fuel quantity indications and extinguish alert.

NOTES: Autopilot stabilizer trim, as well as alternate trim switch, are inoperative.

Multiple Level 2 and Level 1 alerts will be displayed when right ac bus is unpowered.

No further crew action required.

[END]

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ELEC SYNOPTIC DISPLAYS RIGHT AC AND DC BUS SYMBOLS AMBER

Land at nearest suitable airport.

(CONTINUED)

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TBC Abnormal Procedures 717

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"GEN R OFF" ALERT REMAINS DISPLAYED NO (CONTINUED)

CAUTION: False stall warnings (stick shaker, klaxon, "STALL" voice) may occur when "GEN R OFF" alert is displayed and right ac and dc buses are not powered. If warnings occur, check airplane flight condition to determine if indications are valid.

If "FUEL QTY SYS FAIL" alert is displayed, pushing QTY A/B switch may restore fuel quantity indications and extinguish alert.

NOTES: Autopilot stabilizer trim and alternate trim switches are inoperative.

Aileron and rudder trim are inoperative.

Vmin (amber foot) may be unreliable.

Outboard spoilers are inoperative.

Multiple Level 1 and Level 2 alerts will be displayed.

When ready to land,

Refer to LANDING REFERENCE SPEEDS (KIAS) chart in Performance chapter.

[END]

No further crew action required.

[END]

3

GEN ALL OFF

OR TOTAL LOSS OF AC POWER

EMER PWR Selector
CABIN INTERPHONE Switch (Airplanes Without Service Bulletin 717-33-0019 Incorporated)
NOTE: <u>Airplanes without Service Bulletin 717-33-0019</u> incorporated: If required, contact flight attendant using PA.
GEN Switches (All)

GENERATOR BUS(ES) RESTORED

EMER PWR Selector OFF then ARM [END]

CABIN PRESS SYSTEM Switch..... MANUAL

NOTES: Use emergency power as required. Battery power cannot be relied upon for more than 60 minutes.

Cabin pressure must be manually controlled to maintain desired cabin altitude.

(CONTINUED)

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Abnormal Procedures

TBC

With all generators off, the following systems and indications will be inoperative:

- Call chime (airplanes without Service Bulletin 717-33-0019 incorporated).
- · Stall warning system.
- Slat and gear position indications.
- · Stabilizer trim and position indications.
- · Automatic cockpit/cabin temperature control.
- Flight director/autopilot/autothrottle.
- · Ground proximity warning system.
- · Speed brakes and ground spoilers.
- · Thrust reversers.
- On the ground, engine idle speed will be in flight idle.
- · Cabin pressurization control (manual available).

Land at nearest suitable airport.

Prior to landing,

AIRPLANE IN TRIM WITH LANDING FLAPS SET



Continue approach and land with selected flaps.

[END]

Use FLAPS 40 for landing and increase Vref by 20 knots.

Refer to ESTIMATED LANDING DISTANCE tables, located at the end of this procedure.

NOTE: If conditions require, refer to Abnormal Non-Alert Procedure – STABILIZER INOPERATIVE.

Do not reduce thrust until landing flare has been initiated and sink rate has been reduced.

Make positive main gear touchdown to minimize float and take positive action to lower nose to runway.

(CONTINUED)

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October 15, 2016

40/EXT ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	6020	6140	6360	6680	7020	7360
Landing Distance	0020	0020 0140 0300	0000	1020	1 300	
2000 FT STD=11°C	6210	6380	6670	7010	7370	7730
Landing Distance	0210	0300	0070	7010	1310	1130
4000 FT STD=7°C	6430	6670	7000	7360	7740	8130
Landing Distance	0430	0430 0070	7000	7300	7740	0130
6000 FT STD=3°C	6690	6990	7350	7740	8140	8550
Landing Distance	0030	0330	7330	7740	0140	0330
8000 FT STD=-1°C	7010	7350	7730	8140	8550	8990
Landing Distance	7010	7330	1130	0140	0330	0990
10000 FT STD=-5°C	7360	7720	8130	8550	8990	9470
Landing Distance	7300	1120	0130	0000	0990	3 4 70

NOTE: Maximum Manual Braking, High Idle Thrust To Stop, Reversers and Spoilers Not Available, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	TD -
FEET PER °C	
BELOW standard day	-12
ABOVE standard day	+44

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL -64				
DOWNHILL	+64			

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND -			
TAILWIND	+62		

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF	+44		

(CONTINUED)

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40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	8350	8760	9290	9920	10620	11340
Landing Distance	0000	0700	3230	3320	10020	11040
2000 FT STD=11°C	8680	9170	9800	10520	11290	††
Landing Distance	0000	3170	3000	10320	11230	11
4000 FT STD=7°C	9060	9670	10390	11190	††	††
Landing Distance	3000	3070	10090	11130	11	11
6000 FT STD=3°C	9510	10230	11050	11920	††	††
Landing Distance	3310	10230	11030	11320	11	11
8000 FT STD=-1°C	10080	10880	11790	††	††	††
Landing Distance	10000	10000	11730	11	11	11
10000 FT STD=-5°C	10660	11580	††	††	††	††
Landing Distance	10000	11300	11	11	11	11

^{††} Landing distance exceeds 12000 feet.

NOTE: Maximum Manual Braking, High Idle Thrust To Stop, Reversers and Spoilers Not Available, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C		
FEET PER °C		
BELOW standard day -20		
ABOVE standard day	+66	

+2% uphill		
FEET PER 1% SLOPE		
UPHILL	-236	
DOWNHILL	+254	

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-42	
TAILWIND	+144	

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF +66				

(CONTINUED)

April 15, 2017

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	9890	10395	10960	11575	††	††
Landing Distance	3030	10090	10300	11373	''	11
2000 FT STD=11°C	10375	10920	11535	††	††	++
Landing Distance	10373	10920	11000	11	11	††
4000 FT STD=7°C	10860	11445	††	††	††	††
Landing Distance	10000	11445	11	11	11	11
6000 FT STD=3°C	11345	††	††	††	††	††
Landing Distance	11343	11	11	11	11	11
8000 FT STD=-1°C	11830	††	††	††	††	††
Landing Distance	11030	''	11	''	''	11
10000 FT STD=-5°C	††	††	††	††	††	††
Landing Distance			11	11		11

^{††} Landing distance exceeds 12000 feet.

NOTE: Maximum Manual Braking, High Idle Thrust To Stop, Reversers and Spoilers Not Available, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD to STD +40°C) −20°C
FEET PER °C	
BELOW standard day	-23
ABOVE standard day	+79

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-61	
TAILWIND	+200	

SLOPE: Valid from -2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	-418	
DOWNHILL	+492	

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF +79				

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	11430	††	††	††	††	††
Landing Distance	11430	- 11	- ' '	''	- ' '	11
2000 FT STD=11°C to 10000 FT STD=-5°C	††	††	††	††	††	††
Landing Distance						

^{††} Landing distance exceeds 12000 feet.

NOTE: Maximum Manual Braking, High Idle Thrust To Stop, Reversers and Spoilers Not Available, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-26	
ABOVE standard day	+92	

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	-600	
DOWNHILL	+730	

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND	-80		
TAILWIND	+256		

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+92	

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
All Elevations/All Temps	††	++	++	++	++	++
Landing Distance	11	''	11	11	11	11

^{††} Landing distance exceeds 12000 feet.

NOTE: Maximum Manual Braking, High Idle Thrust To Stop, Reversers and Spoilers Not Available, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

40/EXT ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

	Ū					
WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
All Elevations/All Temps	††	++	++	++	++	++
Landing Distance	11	''	11	11	11	11

^{††} Landing distance exceeds 12000 feet.

NOTE: Maximum Manual Braking, High Idle Thrust To Stop, Reversers and Spoilers Not Available, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

[END]

GEN APU OFF

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TBC Abnormal Procedures 717 QRH

April 15, 2017 AP.30.11

5

GEN APU OFF (Continued)

"GEN APU OFF" ALERT REMAINS DISPLAYED

APU Generator Switch OFF
APU MASTER Switch OFF

[END]

No further crew action required.

[END]

INTERIM PROCEDURE 717-QRH-0001

REASON FOR INTERIM PROCEDURE: "BUS AC GS OFF" – Procedure is designed to provide a method to preserve the emergency lighting system battery packs so that the system is available for use, if required. This Level 1 alert is currently under consideration to be upgraded to a Level 2 alert at a future date.

BUS AC GS OFF

(Interim Procedure)

EMER PWR ON LEVEL 1 ALERT DISPLAYED

NO

5

EMER PWR Selector ON Land at nearest suitable airport.

NOTES: The AC ground service bus is unpowered.

With this bus unpowered, the following issues apply:

- Emergency lights will be illuminated. Rotating the EMER PWR selector to ON is necessary to restore power to the emergency lighting system "ARM & FLIGHT CHARGE" circuit which will extinguish the emergency lights, preserving the system for use in the event it is needed for an after landing emergency.
- Emergency AC bus is being powered by the ship's battery and inverter. The emergency power system is designed to provide power for approximately one hour. This is the last remaining source of power for the emergency AC bus.
- Battery charger is not powered. The "BATT CHARGER FAIL" Level 1 alert is inhibited when the "BUS AC GS OFF " Level 1 alert is displayed.
- Right main fuel tank aft boost pump is not powered. Expect the "TNK R AFT PMP LO" level 1 alert to be displayed.
- Floor and circuit breaker panel lights are not powered.

(CONTINUED)

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717 QRH Abnormal Procedures AP.30.12

TBC

BUS AC GS OFF (Interim Procedure) (Continued)

EMER PWR ON LEVEL 1 ALERT DISPLAYED	
<u> </u>	
(CONTINUED)	
 Cabin standby lights will be illuminated and cannot be extinguished. 	
 Forward aisle, aft aisle, entry, galley area and attendant lights are not powered. 	
 If forward entrance stairway is installed, its lights are not powered 	
 Ground flood lights are not powered. 	
 Wingtip position and strobe lights are not powered. 	
[END]	
EMER LT Switch OFF	
Contact the forward flight attendant and advise that person to verify the EMERGENCY LIGHT guarded switch on the forward attendant's panel is in the OFF position.	
NOTES: Selecting the emergency lights off is necessary to avoid depletion of the emergency light battery packs.	;
"EMER LTS DISARM" Level 0 alert will be displayed until the EMER LT switch is returned to the ARM position prior to landing.	
When the emergency lights have been selected off, the ground charging circuit will allow the emergency lighting batteries to be slowly charged while the DC transfer bus remains powered.	
Cabin standby lights will be illuminated and cannot be extinguished.	
The ground service bus sensing circuit has failed. All systems except emergency lighting should operate normally.	
Just prior to FAF (approximately 3 minutes prior to landing on a visual approach),	
EMER PWR SelectorON	
NOTE: EMER PWR selector must be in the ON position to enable arming of the emergency lights.	
EMER LT Switch ARM	
After parking and when all passengers and cabin crew have exited the airplane,	
EMER LT Switch OFF	
NOTE: EMER LT switch should be moved to OFF when all passengers and cabin crew have exited the airplane.	
(CONTINUED)	

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3C Abnormal Procedures 717 QRH

BUS AC GS OFF (Interim Procedure) (Continued) EMER PWR Selector OFF NOTE: EMER PWR selector should be selected to the OFF position after the EMER LT switch is selected to OFF to avoid further depletion of the airplane battery. [END]

END INTERIM PROCEDURE 717-QRH-0001

6

<u>System</u>	<u>Prefix</u>
Air	AP.10
Config	AP.20
Elec	AP.30
Eng	AP.40
Fuel	AP.50
Hyd	AP.60
Misc	AP.70
Non-Alert	AP.80

Ε Ν G

Intentionally Blank

APU EGT HI APU FAULT	1
ENGCOMP STALL ENGOIL PRES LO ENGOIL TEMP HI	2
ENGRPM HI ENGRPM LO ENGTGT HI ENGBRG OVHT SELECT FADEC ALTN	3
START VLVOPEN	4

Intentionally Blank

AP.TOC.40.2

APU EGT HI

APU DESIRED FOR FLIGHT

NO

1

Continue APU operation. Monitor RPM and EGT.

NOTE: APU will automatically shut down 10 minutes after landing.

[END]

APU MASTER Switch OFF **[END]**

APU FAULT

APU DESIRED FOR FLIGHT

NO

Continue APU operation. Monitor RPM and EGT.

NOTE: APU will automatically shut down 10 minutes after landing.

[END]

[END]

ENG COMP STALL

CAUTION: Avoid operating engines in a persistent surge or compressor stall condition. Surges or compressor stalls may not always be audible. Surges or compressor stalls are evidenced by engine thrust loss and rapidly rising or abnormally high TGT. Multiple surges or continuous compressor stall may cause compressor damage and possible engine failure.

NOTE: For any loss of thrust during takeoff, the ENGINE FIRE/FAILURE TAKEOFF profile should be flown until reaching a safe altitude, or until obstacle clearance is assured.

Autothrottle OFF Throttle (Affected Engine[s]) RETARD NOTE: Retard throttle(s) on affected engine(s) (minimum for safe flight) until engine stabilizes or throttle reaches idle, whichever occurs first. TGT, N1, N2 INDICATIONS NORMAL NO

> Operate engine(s) at level(s) at which stalls/surges do not recur. Affected ENG Anti-Ice Switch..... AS REQUIRED FLOW Switch AS REQUIRED WING or TAIL Anti-Ice Switch. AS REQUIRED Closely monitor engine parameters for remainder of flight.

[END]

FUEL Switch(es) (Affected Engine[s]) (One At a Time).....OFF THEN ON

TGT, N1, N2 INDICATIONS RETURN TO NORMAL

NO

1

Operate engine(s) at level(s) at which stalls/surges do not recur. Affected ENG Anti-Ice Switch..... AS REQUIRED WING or TAIL Anti-Ice Switch..... AS REQUIRED Closely monitor engine parameters for remainder of flight. [END]

FUEL Switch (Affected Engine)..... OFF Affected ENG Anti-Ice Switch OFF WING or TAIL Anti-Ice Switch AS REQUIRED (CONTINUED)

ENG___COMP STALL (Continued)

Refer to EMERGENCY NON-ALERT procedure - ENGINE FAIL/SHUTDOWN IN FLIGHT.

NOTE: Normally an engine should not be restarted if it was shut down due to compressor stall/surge. However, at the Captain's discretion, a restart may be attempted if the engine is critical for sustaining safe flight. In this case, engine operation should be carefully monitored after restart and for the remainder of the flight, to ensure that a compressor stall/surge has not resulted in engine damage.

Land at nearest suitable airport.

[END]

ENG OIL PRES LO

ENG OIL TEMP HI

Throttle (Affected Engine) ADJUST

If at high thrust, retard throttle. If at idle, increase thrust to provide higher fuel flow for improved cooling.

NOTE: Oil temperature stabilization may take several minutes following thrust changes.

"ENG___OIL TEMP HI" ALERT REMAINS DISPLAYED

NO

Continue engine operation. Monitor oil temperature.

[END]

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AP.40.3

TBC Abnormal Procedures 717 QRH

RPM REMAINS ABOVE REDLINE FUEL Switch (Affected Engine) OFF Refer to EMERGENCY NON-ALERT Procedure - ENGINE FAIL/SHUTDOWN IN FLIGHT. [END] Operate engine at a throttle setting necessary to maintain RPM below [END] ENG RPM LO FUEL Switch (Affected Engine)..... OFF RESTART DESIRED Refer to ABNORMAL NON-ALERT Procedure - ENGINE RESTART IN FLIGHT. [END] Refer to EMERGENCY NON-ALERT Procedure - ENGINE FAIL/SHUTDOWN IN FLIGHT. [END] ENG TGT HI TGT REMAINS ABOVE REDLINE NO FUEL Switch (Affected Engine) OFF Refer to EMERGENCY NON-ALERT Procedure - ENGINE FAIL/SHUTDOWN IN FLIGHT. [END] Operate engine at a throttle setting necessary to maintain an acceptable TGT. [END]

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ENG BRG OVHT

Throttle (Affected Engine) IDLE When engine at idle, "ENGINE **BRG OVHT" ALERT** REMAINS DISPLAYED NO FUEL Switch (Affected Engine). OFF Refer to EMERGENCY NON-ALERT Procedure - ENGINE FAIL/SHUTDOWN IN FLIGHT. [END] Continue operation at idle power setting. [END] SELECT FADEC ALTN FADEC MODE Switch (Affected Engine)..... PUSH FADEC MODE Switch (Affected Engine)..... PUSH AGAIN NOTE: First push selects FADEC ALTN mode. Second push attempts to return FADEC to normal mode. "SELECT FADEC ALTN" ALERT **DISPLAYED** FADEC MODE Switch (Affected Engine) PUSH NOTE: Autothrottle will be inoperative when either engine is in N1 mode. Opposite FADEC MODE Switch PUSH [END] Continue normal engine operation. [END]

3

START VLV OPEN

AIRPLANE ON GROUND

NO APU AIR Switch/External Air Source OFF FUEL Switch (Affected Engine) OFF Call maintenance. [END] 3 BLEED Switch (Affected Engine) OFF PACK Switch (Affected Engine) OFF Avoid icing conditions. Do not repressurize affected pneumatic system unless necessary. [END]

<u>System</u>	<u>Prefix</u>
Air	AP.10
Config	AP.20
Elec	AP.30
Eng	AP.40
Fuel	AP.50
Hyd	AP.60
Misc	AP.70
Non Alart	AD 90

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BALST FUEL DISAG CTRPUMP LO FUEL OFF SCHEDULE	1
FUEL QTY FAULT FUEL QTY SYS FAIL	2

Intentionally Blank

BALST FUEL DISAG

AIRPLANE ON GROUND
NO
Ballast Fuel
CTR PUMPS Switches OFF [END]
CTRPUMP LO
Failed CTR Pump SwitchOFF Main Tank Pumps Switches (Both Tanks)OFF
CENTER TANK FUEL DECREASING
NO
When center tank fuel quantity indicates 500 pounds/225 kilograms, Main Tank Pumps Switches (Both Tanks)ON CTR Pump SwitchOFF [END]
Main Tank Pumps Switches (Both Tanks)
NOTE: Center and/or aux tank fuel will not be available.
[END]
FUEL OFF SCHEDULE
CTR FWD/AFT PUMP Switches
CENTER TANK FUEL FEED NORMAL
NO I
Continue operation. Monitor fuel system. [END]
Plan remainder of flight using 4000 pounds/1814 kilograms or less total fuel.
Land at nearest suitable airport. [END]

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Abnormal Procedures 717 QRH

FUEL QTY FAULT

QTY A/B Switch.....PUSH

1 "FUEL QTY FAULT" ALERT REMAINS
DISPLAYED



NOTE: FMS FUEL and GROSS WEIGHT on INIT page 2 will now be calculated using fuel flow only.

[END]

NOTE: Fuel quantity alerts and system display data will be normal. **[END]**

FUEL QTY SYS FAIL

QTY A/B Switch.....PUSH

"FUEL QTY SYS FAIL" ALERT REMAINS DISPLAYED



NOTE: FMS FUEL and GROSS WEIGHT on INIT page 2 will now be calculated using fuel flow only.

[END]

NOTE: Fuel quantity alerts and system display data will be normal.

[END]

<u>System</u>	<u>Prefix</u>
Air	AP.10
Config	AP.20
Elec	AP.30
Eng	AP.40
Fuel	AP.50
Hyd	AP.60
Misc	AP.70
Non Alast	AD 00

Intentionally Blank

HYD L & R FAIL	1
HYD R PRES LO HYD L PRES LO	2
HYD R QTY LO OR DECREASING OR ABNORMALLY HIGH	3
HYD L QTY LO OR DECREASING OR ABNORMALLY HIGH HYD R TEMP HI	4
HYD L TEMP HI	5

Intentionally Blank

HYD L & R FAIL

NOTES: If flaps and/or slats are extended, they will remain in their last selected position.

Speed brakes/ground spoilers will not be available. Rudder will revert to manual.

Use longest available runway for existing conditions.

The crosswind capability of the airplane is greatly reduced. Select a runway with minimum crosswind and use differential braking as necessary for control on the runway.

Plan a wide pattern and longer than normal final approach for speed stabilization on final.

Reduce landing weight to minimum practical.

L & R PUMP Switches (Both)	FF
TRANS Pump SwitchO	FF
AUX Pump Switch	FF

Refer to ESTIMATED LANDING DISTANCE tables located at the end of this procedure.

WARNING: Minimum approach speed is 144 KIAS until landing is assured.

When ready to begin approach,

FLAPS LESS THAN 25 DEGREES AND/OR LANDING GEAR UP

NO

GND PROX WARN Switch FLAP OVRD

NOTE: In FLAP OVRD, ground proximity warning will be disabled as a result of flaps not in landing range. All other functions of ground proximity warning system will remain operative.

LANDING GEAR UP

NO

Gear Handle......DOWN

Emergency Gear

Extension Lever PULL FULL UP/LATCHED

Raise cover, forcibly pull emergency gear extension lever to full up position and check holding latch is engaged.

Gear Lights3 GREEN

NOTE: "GEAR DOOR OPEN" alert will be displayed.

Airspeed VREF +5

WARNING: Minimum approach speed is 144 KIAS until landing is assured.

(CONTINUED)

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AP.60.1

FLAPS LESS THAN 25 DEGREES AND/OR LANDING GEAR UP

Fly normal glideslope (maintain a gradient not less than 2.5 degrees).

Autothrottles DISCONNECT BEFORE 50 FEET AGL

NOTE: Autothrottles will not retard if flaps are set less than landing range.

Make positive main gear touchdown to minimize float.

Do not delay lowering nose to runway (thrust reversers will not deploy until NLG is compressed).

Braking MAXIMUM AVAILABLE TO COMPLETE STOP

CAUTION: Do not apply brakes until NLG is on ground.

NOTE: Apply steady symmetrical brake pedal force all the way to mechanical stops to minimize accumulator pressure loss. Use differential braking to maintain directional control as rudder control deteriorates at lower speeds.

Reverse Thrust MAXIMUM REVERSE

<u>WARNING:</u> Do not use asymmetrical reverse thrust to maintain directional control.

NOTES: Immediately apply symmetrical reverse thrust. Reduce to idle reverse if directional control problems occur. At 110 KIAS, reduce to idle reverse.

Maintain idle reverse until airplane is stopped and parking brake is set.

Thrust reversers will not stow.

Stop airplane on runway. Apply parking brake immediately.

Do not attempt to taxi.

Before airplane is towed, shut down engines, ensure gear safety pins are installed and main gear doors are closed.

(CONTINUED)

0/RET ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

					_	
WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	5280	5730	6180	6690	7650	9500
Landing Distance	3200	3730	0100	0090	7030	9300
2000 FT STD=11°C	5490	5970	6450	7050	8260	10860
Landing Distance	3490	3970	0430	7030	0200	10000
4000 FT STD=7°C	5730	6230	6730	7480	9050	4.4
Landing Distance	3730	0230	0730	7400	9030	††
6000 FT STD=3°C	5970	6500	7040	8000	10140	††
Landing Distance	3970	0300	7040	8000	10140	11
8000 FT STD=-1°C	6230	6790	7390	8650	11670	++
Landing Distance	6230 6790		7 390	0000	11070	††
10000 FT STD=-5°C	6530	7120	7840	9550	++	++
Landing Distance	0000 / 120		7040 9550		††	††

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 110 knots, then idle to stop), Maximum Available Braking, No Ground Spoilers, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-12	
ABOVE standard day	+44	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-18
TAILWIND	+62

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	-64	
DOWNHILL	+64	

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +44			

(CONTINUED)

^{††} Landing distance exceeds 12000 feet.

0/RET ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	6700	7480	8290	**	**	**
Landing Distance	0700	7400	0290			
2000 FT STD=11°C	7090	7930	8810	**	**	**
Landing Distance	7090	7930	0010			
4000 FT STD=7°C	7510	8410	9370	**	**	**
Landing Distance	7510	0410 93	9370			
6000 FT STD=3°C	7970	8930	**	**	**	**
Landing Distance	1910	0930				
8000 FT STD=-1°C	8460	9500	**	**	**	**
Landing Distance	0400	9300				
10000 FT STD=-5°C	9020	10140	**	**	**	**
Landing Distance	9020	10140				

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 110 knots, then idle to stop), Maximum Available Braking, No Ground Spoilers, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day -18		
ABOVE standard day	+60	

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND -40			
TAILWIND	+130		

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –216			
DOWNHILL +232			

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +60			

(CONTINUED)

^{**} Maximum Brake Energy Limit.

0/RET ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	7870	8825	9815	**	**	††
Landing Distance	1010	0023	9013			11
2000 FT STD=11°C	8340	9365	10430	++	++	++
Landing Distance	0340	9305	10430	††	††	††
4000 FT STD=7°C	8850	9940	**	††	††	††
Landing Distance	8650	9940		11	11	11
6000 FT STD=3°C	9395	10560	**	††	††	††
Landing Distance	9393	10300		11	11	11
8000 FT STD=-1°C	9990	**	††	††	††	††
Landing Distance	9990		11	11	11	11
10000 FT STD=-5°C	10655	**	++	††	++	††
Landing Distance	10000		††	11	††	11

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 110 knots, then idle to stop), Maximum Available Braking, No Ground Spoilers, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C			
FEET PER °C			
BELOW standard day	-21		
ABOVE standard day	+72		

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND	-56		
TAILWIND	+182		

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –382			
DOWNHILL	+449		

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+72	

(CONTINUED)

^{**} Maximum Brake Energy Limit.

^{††} Landing distance exceeds 12000 feet.

0/RET ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	9040	10170	11340	††	††	††
Landing Distance	3040	10170	11340	''	11	''
2000 FT STD=11°C	9590	10800	12050	††	††	††
Landing Distance	9390	10000	12030	''	11	''
4000 FT STD=7°C	10190	11470	††	††	††	††
Landing Distance	10190	11470	11	11	11	''
6000 FT STD=3°C	10820	12190	††	††	††	††
Landing Distance	10020	12130	- 11	''	11	''
8000 FT STD=-1°C	11520	††	††	††	††	††
Landing Distance	11320	11	11	''	11	''
10000 FT STD=-5°C	12290	††	††	††	††	††
Landing Distance	12290	11	11	11	11	''

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 110 knots, then idle to stop), Maximum Available Braking, No Ground Spoilers, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	TD –
FEET PER °C	
BELOW standard day	-24
ABOVE standard day	+84

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-72
TAILWIND	+234

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL –548		
DOWNHILL	+666	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+84	

(CONTINUED)

^{††} Landing distance exceeds 12000 feet.

0/RET ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	10520	10530 11845 ††	++	†† ††	††	††
Landing Distance	10330		11			''
2000 FT STD=11°C	11170	++	††	††	††	††
Landing Distance	11170 ††			11	11	
4000 FT STD=7°C	11860	++	++	++	++	++
Landing Distance		††	††	††	††	††
6000 FT STD=3°C to						
10000 FT STD=-5°C	††	††	††	††	††	††
Landing Distance						
8000 FT STD=-1°C	††	††	††	††	††	††
Landing Distance	''	11	''	''	''	11
10000 FT STD=-5°C	++	++	++	++	++	++
Landing Distance	††	††	††	††	††	††
1	•					

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 110 knots, then idle to stop), Maximum Available Braking, No Ground Spoilers, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –
FEET PER °C	
BELOW standard day	-29
ABOVE standard day	+102

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-96
TAILWIND	+338

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL –978		
DOWNHILL	+1426	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+102	

0/RET ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C to 10000 FT STD=-5°C Landing Distance	††	††	††	††	††	††

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 110 knots, then idle to stop), Maximum Available Braking, No Ground Spoilers, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

[END]

^{††} Landing distance exceeds 12000 feet.

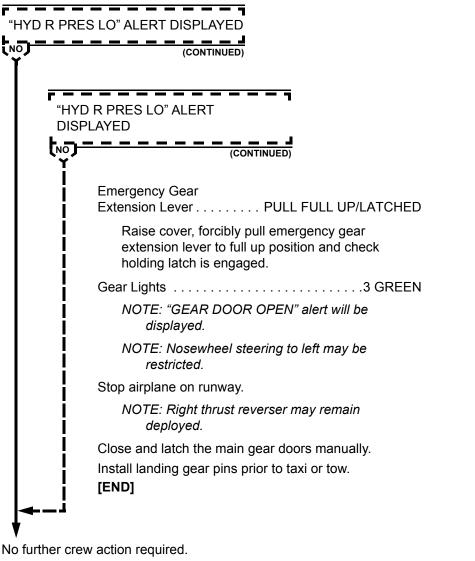
^{††} Landing distance exceeds 12000 feet.

HYD R PRES LO

NOTE: Loss of hydraulic fluid may result in an increasing quantity indication on affected side due to foaming.
TRANS Pump Switch OFF AUX HYD Pump Switch
"HYD R QTY LO" ALERT DISPLAYED
CAUTION: Do not operate transfer pump or both systems may lose hydraulic pressure.
Refer to Abnormal procedures, "HYD R QTY LO", OR DECREASING OR ABNORMALLY HIGH.
▼ [END]
<u>WARNING:</u> Rudder <u>may</u> revert to manual. If rudder reverts to manual, minimum approach speed is 144 KIAS until landing is assured.
NOTE: Successful repressurization of affected hydraulic system may be possible at lower altitudes. If practical, delay repressurization attempt until approximately 10,000 feet MSL or 5,000 feet above destination airport elevation, whichever is higher.
When ready to attempt system repressurization,
Verify rudder is neutral and rudder trim is zero.
AUX Pump SwitchON NOTE: Right system pressure should be indicated in approximately 15 seconds.
"HYD R PRES LO" ALERT DISPLAYED
NO
AUX Pump Switch OFF TRANS Pump Switch
CAUTION: If operating hydraulic system pressure is lost when TRANS pump switch is moved to ON, move TRANS pump switch to OFF.
NOTE: Right system pressure should be indicated in approximately 15 seconds.
"HYD R PRES LO" ALERT DISPLAYED
NO
TRANS Pump Switch OFF NOTE: Outboard spoilers may be inoperative. Select runway with minimum crosswind. When ready to begin approach,
Gear Handle DOWN
(CONTINUED)
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717 QRH Abnormal Procedures TBC



[END]

HYD L PRES LO

NOTE: Loss of hydraulic fluid may result in an increasing quantity indication on affected side due to foaming.

TRANS Pump Switch.....OFF

"HYD L QTY LO" ALERT DISPLAYED

NO

CAUTION: Do not operate transfer pump or both systems may lose hydraulic pressure.

Refer to Abnormal procedures, "HYD L QTY LO", OR DECREASING OR ABNORMALLY HIGH.

[END]

(CONTINUED)

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Abnormal Procedures

717 QRH

HYD L PRES LO (Continued)



2

NOTE: Successful repressurization of affected hydraulic system may be possible at lower altitudes. If practical, delay repressurization attempt until approximately 10,000 feet MSL or 5,000 feet above destination airport elevation, whichever is higher.

When ready to attempt system repressurization,

CAUTION: If operating hydraulic system pressure is lost when TRANS pump switch is moved to ON, move TRANS pump switch to OFF.

NOTE: Left system pressure should be indicated in approximately 15 seconds.

"HYD L PRES LO" ALERT DISPLAYED

NO.

TRANS Pump Switch.....OFF

When ready to begin approach,

NOTE: Inboard spoilers may be inoperative.

Nosewheel steering to right may be restricted.

Left thrust reverser may remain deployed.

[END]

No further crew action required.

[END]

HYD R QTY LO

OR DECREASING OR ABNORMALLY HIGH

NOTE: Loss of hydraulic fluid may result in an increasing quantity indication on affected side due to foaming.

TRANS Pump Switch OFF

CAUTION: Do not operate transfer pump or both systems may lose hydraulic pressure.

R PUMP Switch..... OFF AUX Pump Switch..... OFF

WARNING: Rudder will revert to manual. Minimum approach speed is 144 KIAS until landing is assured or right system pressure is restored.

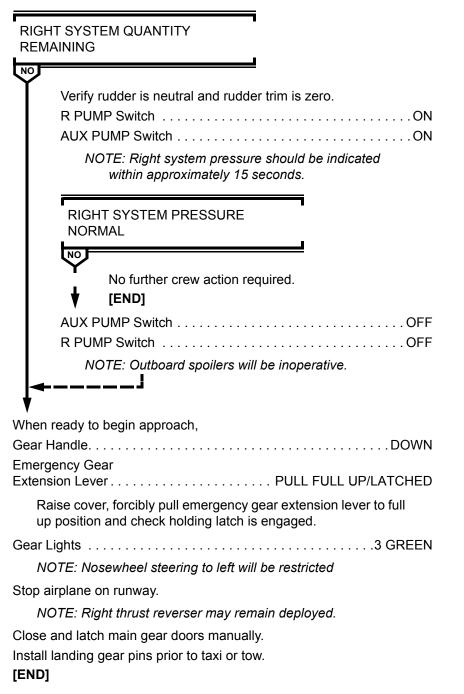
NOTES: An attempt to repressurize the right hydraulic system for landing may be made if any hydraulic fluid remains.

(CONTINUED)

HYD R QTY LO OR DECREASING OR ABNORMALLY HIGH (Continued)

Successful repressurization of affected hydraulic system may be possible at lower altitudes. If practical, delay repressurization attempt until approximately 10,000 feet MSL or 5,000 feet above destination airport elevation, whichever is higher.

When ready to attempt repressurization,

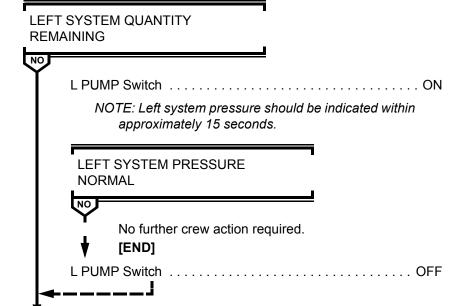


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HYD L QTY LO

OR DECREASING OR ABNORMALLY HIGH

When ready to attempt repressurization,



When ready to begin approach,

NOTE: Inboard spoilers will be inoperative.

Nosewheel steering to right will be restricted.

Left thrust reverser may remain deployed.

[END]

3

HYD R TEMP HI

NOTE: This alert may be displayed as the result of the following conditions:

- Hydraulic pump failure in the associated system.
- Internal by-pass or leakage of a hydraulic component within the affected system.

(CONTINUED)

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717 QRH

Abnormal Procedures

TBC

HYD R TEMP HI (Continued)
Pump cavitation due to excessive air in the system.
TRANS Pump Switch. OFF R PUMP Switch OFF AUX Pump Switch OFF
<u>WARNING:</u> Rudder will revert to manual. Minimum approach speed is 144 KIAS until landing is assured or right system pressure is restored.
NOTE: Successful repressurization of affected hydraulic system may be possible at lower altitudes. If practical, delay repressurization attempt until approximately 10,000 feet MSL or 5,000 feet above destination airport elevation, whichever is higher.
When ready to attempt system repressurization,
Verify rudder is neutral and rudder trim is zero.
AUX PUMP SwitchON
NOTE: Right system pressure should be indicated in approximately 15 seconds.
RIGHT SYSTEM PRESSURE NORMAL
NO
No further crew action required. [END]
AUX Pump Switch OFF
R Pump Switch ON
NOTE: Right system pressure should be indicated in approximately 15 seconds.
RIGHT SYSTEM PRESSURE NORMAL
NO
No further crew action required. [END]
R Pump Switch OFF
NOTE: Outboard spoilers will be inoperative.
When ready to begin approach,
Gear Handle
Emergency Gear Extension Lever PULL FULL UP/LATCHED
Raise cover, forcibly pull emergency gear extension lever to full up position and check holding latch is engaged.
Gear Lights
NOTE: "GEAR DOOR OPEN" alert will remain displayed.
NOTE: Nosewheel steering to left will be restricted

4

(CONTINUED)

HYD R TEMP HI (Continued)

Stop airplane on runway.

NOTE: Right thrust reverser may remain deployed.

Close and latch main gear doors manually.

Install landing gear pins prior to taxi or tow.

[END]

4

HYD L TEMP HI

NOTE: This alert may be displayed as the result of the following conditions:

- · Hydraulic pump failure in the associated system.
- Internal by-pass or leakage of a hydraulic component within the affected system.
- Pump cavitation due to excessive air in the system.

TRANS Pump Switch OFF L PUMP Switch OFF

NOTE: Successful repressurization of affected hydraulic system may be possible at lower altitudes. If practical, delay repressurization attempt until approximately 10,000 feet MSL or 5,000 feet above destination airport elevation, whichever is higher.

When ready to attempt system repressurization,

CAUTION: If operating hydraulic system pressure is lost when TRANS HYD PUMPS switch is moved to ON, move TRANS HYD PUMPS switch to OFF.

NOTE: Left system pressure should be indicated in approximately 15 seconds.

LEFT SYSTEM PRESSURE NORMAL

NO

No further crew action required.

[END]

NOTE: Left system pressure should be indicated in approximately 15 seconds.

LEFT SYSTEM PRESSURE NORMAL

NO

No further crew action required.

[END]

L Pump Switch OFF

When ready to begin approach,

NOTES: Inboard spoilers will be inoperative.

(CONTINUED)

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717 QRH

Abnormal Procedures

TBC

AP.60.14

April 15, 2017

HYD L TEMP HI (Continued)

Nosewheel steering to right will be restricted. Left thrust reverser may remain deployed.

[END]

5 Intentionally Blank

<u>System</u>	<u>Prefix</u>
Air	.AP.10
Config	.AP.20
Elec	.AP.30
Eng	.AP.40
Fuel	.AP.50
Hyd	.AP.60
Misc	.AP.70
Non-Alert	ΔP 80

April 15, 2014

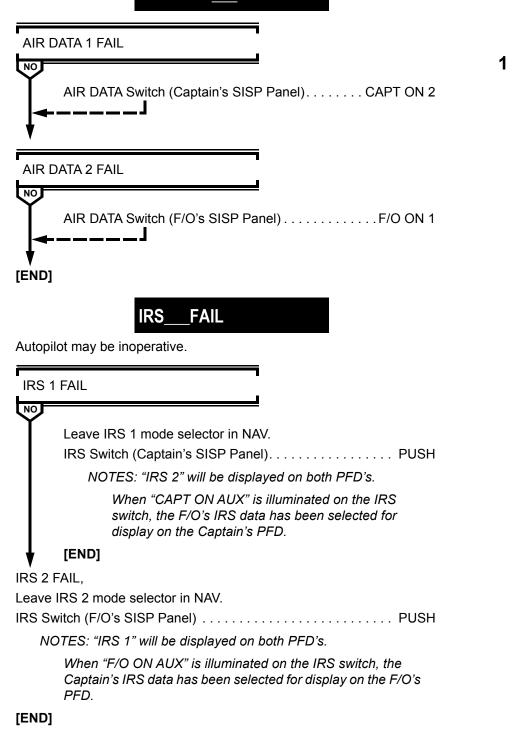
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AIR DATAFAIL IRSFAIL	1
TAILCONE UNLOCK WSHLD HEAT FAIL	2

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AP.TOC.70.2

AIR DATA FAIL



TAILCONE UNLOCK

Continue flight with WINDSHIELD ANTI-ICE switch in the ON position.

[END]

System	<u>Prefix</u>	
Air	AP.10	
Config	AP.20	2
Elec	AP.30	
Eng	AP.40	
Fuel	AP.50	
Hyd	AP.60	
Misc	AP.70	
Non-Alert	AP.80	

July 15, 2008

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ABNORMAL FLIGHT MODE ANNUNCIATIONS AFTER LANDING GEAR EXTENSION	1
AILERON CONTROLS JAMMED OR RESTRICTED ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE	2
APPROACH WITH LESS THAN 1,000 LB/ 450 KG FUEL IN EITHER MAIN TANK CABIN INTERPHONE COMMUNICATIONS ON EMERGENCY POWER (Airplanes Without S/B 717-33-0019 Incorporated) CABIN SMOKE/FUMES REMOVAL DITCHING OR CRASH LANDING	3
ELEVATOR CONTROLS JAMMED OR RESTRICTED ENG L AND ENG R FUEL FILTER LEVEL 1 ALERTS DISPLAYED ENGINE ABNORMAL START	4
ENGINE(S) COMPRESSOR STALL/SURGE ENGINE RESTART IN FLIGHT	5
BOTH MCDUs FAIL TO RESPOND TO INPUTS (Interim Procedure)	6
FMS DUAL FAIL FMS SINGLE FAIL	7
FUEL LEAK	8
GEAR HANDLE WILL NOT MOVE TO DOWN POSITION	9
GEAR HANDLE WILL NOT MOVE TO UP POSITION GEAR UNSAFE LIGHT(S) ILLUMINATE WITH GEAR HANDLE DOWN GEAR UNSAFE LIGHT(S) ILLUMINATE WITH GEAR HANDLE UP	10
GROUND SENSOR FAILURE	11
HIGH ENGINE VIBRATIONS/ICE SHEDDING LANDING WITH ABNORMAL LANDING GEAR CONFIGURATION	12
NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED LANDING	13
PASSENGER EVACUATION	14
RUDDER JAMMED OR RESTRICTED SEVERE TURBULENCE/HEAVY RAIN INGESTION	15
SPOILER STUCK IN EXTENDED POSITION STABILIZER INOPERATIVE	16
STARTER VALVE MANUAL OPERATION TAILPIPE FIRE TIRE FAILURE	17
VOLCANIC ASH WINDSHIELD CRACKED OR ARCING	18

Intentionally Blank

CAUTION: Flight Director will display an incorrect pitch command until selected to OFF.

NOTE: If any of the following indications appear when the landing gear is extended and the nosewheel is down and locked, it may be an indication of a ground sensing problem:

- FLIGHT MODE ANNUNCIATOR (FMA): Roll control window mode will change to "TAKEOFF". Altitude control window thrust mode annunciation will change to "T/O CLAMP", and autothrottles, if engaged, will not provide speed control.
- Autopilot, if engaged, will disconnect and cannot be re-engaged while the landing gear is extended.
- Flight Director pitch bar will command an incorrectly referenced high pitch attitude, and roll bar will command heading hold. The Flight Director will not track ILS, VOR, or FMS NAV mode guidance.
- "CABIN PRESSURIZED" Level 2 alert may be displayed, and cabin will depressurize as it would after landing.

CAUTION: Auto spoilers must be disarmed to prevent deployment of ground spoilers before main wheel touchdown. Failure to disarm auto spoilers will allow ground spoilers to deploy automatically at approximately 7 feet Radio Altimeter (RA) altitude.

NOTE: If runway has been acquired visually, and the crew desires to continue the approach, autothrottles will not provide speed control. Flight Director command bars should be turned off or disregarded. If the runway is not in sight and/or the airplane is in IMC, the crew may wish to discontinue the approach.

CAPTAIN ELECTS TO CONTINUE APPROACH



No further crew action required.

[END]

Push TOGA switch on left or right throttle lever while simultaneously pushing throttle levers to stop. Adjust pitch attitude as necessary to establish positive climb at safe airspeed.

CAUTION: Flight Director pitch bar will continue to display incorrect pitch and roll commands, and autopilot and autothrottles will not be available until after landing gear is retracted.

NOTE: After landing gear is up and locked, all Flight Director and FMA indications should return to normal and may be referenced. Autopilot and autothrottles will function normally.

(CONTINUED)

	ABNORMAL FLIGHT MODE ANNUNCIATIONS AFTER LANDING GEAR EXTENSION (Continued) GROUND CONTROL RELAY
	C/Bs K-32 and L-32 (Upper EPC)PULL
1	CAUTION: Do not reset GROUND CONTROL RELAY C/Bs K-32 and L-32 until after landing.
	Prior to final approach fix,
	CABIN PRESS SYSTEM Switch
	Observe outflow VALVE position indicator moves to the full OPEN (OP) position.
	Do not arm auto spoilers.
	Refer to ESTIMATED LANDING DISTANCE tables located at the end of this procedure.
	Upon touchdown, manually deploy ground spoilers.
	NOTE: With ground control relay circuit breakers pulled, thrust reversers will not be available and engines will remain in flight idle mode.
	After landing,
	GROUND CONTROL RELAY
	C/Bs K-32 and L-32 (Upper EPC)RESET
	AIR FOIL Anti-Ice Switches (Both) OFF

(CONTINUED)

AP.80.2 April 15, 2017

40/EXT ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	3580	3820	4070	4310	4560	4800
Landing Distance	3300	3020	4070	4310	4500	4000
2000 FT STD=11°C	3700	3950	4210	4470	4730	4980
Landing Distance	3700	3930	4210	4470	4730	4300
4000 FT STD=7°C	3820	4090	4370	4640	4910	5190
Landing Distance	3020	4090	4370	4040	4 910	3190
6000 FT STD=3°C	3960	4240	4530	4820	5110	5400
Landing Distance	3900	4240	4550	4020	3110	3400
8000 FT STD=-1°C	4100	4400	4710	5020	5330	5640
Landing Distance	4100	4400	4710	3020	5550	5040
10000 FT STD=-5°C	4260	4570	4900	5230	5560	5890
Landing Distance	4200	4370	4900	3230	3300	5090

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST -20°C to STD +40°C	D	
FEET PER °C		
BELOW standard day	-7	
ABOVE standard day	+20	

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL -50				
DOWNHILL	+110			

WIND: Valid from -10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-15	
TAILWIND	+70	

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF +60				

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	4210	4590	5000	5410	5820	6250
Landing Distance	4210	4590	3000	3410	3020	0230
2000 FT STD=11°C	4390	4800	5240	5670	6120	6580
Landing Distance	4330	4000	3240	3070	0120	0300
4000 FT STD=7°C	4590	5030	5500	5970	6460	6950
Landing Distance	4330	3030	3300	3970	0400	0930
6000 FT STD=3°C	4810	5290	5780	6300	6820	7360
Landing Distance	4010	3290	3700	0300	0020	7300
8000 FT STD=-1°C	5050	5560	6100	6660	7230	7810
Landing Distance	3030	5500	0100	0000	1230	7010
10000 FT STD=-5°C	5310	5860	6450	7060	7670	8300
Landing Distance	3310	3000	0430	7000	7070	0300

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD -20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-11	
ABOVE standard day	+40	

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL -100		
DOWNHILL +330		

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-24
TAILWIND	+140

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +100			

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	5145	5540	5960	6385	6805	7240
Landing Distance	3143	3340	3900	0303	0003	7240
2000 FT STD=11°C	5335	5760	6210	6655	7115	7575
Landing Distance	3333	3760	0210	0000	7113	7373
4000 FT STD=7°C	5555	6010	6485	6965	7460	7955
Landing Distance	3333	0010	0465	0900	7400	7900
6000 FT STD=3°C	5795	6285	6785	7310	7835	8370
Landing Distance	3/93	0203	0703	7310	7000	0370
8000 FT STD=-1°C	6060	6575	7125	7685	8250	8825
Landing Distance	0000	03/3	1123	7000	0230	0023
10000 FT STD=-5°C	6340	6895	7485	8090	8695	9310
Landing Distance	0340	0095	7400	0090	0093	9310

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C	
FEET PER °C	
BELOW standard day	-14
ABOVE standard day	+40

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –195			
DOWNHILL	+460		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-31	
TAILWIND	+145	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+100	

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	6080	6490	6920	7360	7790	8230
Landing Distance	0000	0430	0320	7300	1130	0230
2000 FT STD=11°C	6280	6720	7180	7640	8110	8570
Landing Distance	0200	0720	7 100	7040	0110	0370
4000 FT STD=7°C	6520	6990	7470	7960	8460	8960
Landing Distance	0320	0990	7470	7900	0400	0900
6000 FT STD=3°C	6780	7280	7790	8320	8850	9380
Landing Distance	0700	7200	1130	0320	0000	3300
8000 FT STD=-1°C	7070	7590	8150	8710	9270	9840
Landing Distance	7070	7330	0130	0710	3210	3040
10000 FT STD=-5°C	7370	7930	8520	9120	9720	10320
Landing Distance	7370	7 330	0320	3120	3720	10320

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C	
FEET PER °C	
BELOW standard day	-16
ABOVE standard day	+40

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –290			
DOWNHILL	+590		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-37	
TAILWIND	+150	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+100	

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	8360	8640	9045	9500	9975	10500
Landing Distance	0300	0040	3043	9300	9913	10300
2000 FT STD=11°C	8545	8885	9335	9825	10345	10885
Landing Distance	0040	0000	9333	3023	10040	10003
4000 FT STD=7°C	8830	9210	9695	10225	10790	11355
Landing Distance	0030 9210	9093	10223	10790	11333	
6000 FT STD=3°C	9155	9575	10070	10635	11225	11840
Landing Distance	9100 9070	10070	10033	11223	11040	
8000 FT STD=-1°C	9505	9975	10500	11065	11680	††
Landing Distance	9505 9975	10300 11003	11000	11		
10000 FT STD=-5°C	9865	10365	10910	11485	††	††
Landing Distance	9000	10303	10910	11400	11	11

^{††} Landing distance exceeds 12000 feet.

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-24	
ABOVE standard day	+50	

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	- 670	
DOWNHILL	+1565	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-56
TAILWIND	+235

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+110	

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	10640	10790	11170	11640	††	††
Landing Distance	10040	10730	11170	11040	11	11
2000 FT STD=11°C	10810	11050	11490	††	††	††
Landing Distance	10010	11030	11430	11	11	- 11
4000 FT STD=7°C	11140	11430	11920	††	††	††
Landing Distance	11140	11430	11320	11	11	- 11
6000 FT STD=3°C	11530	11870	††	††	††	††
Landing Distance	11330	11070	11	11	11	- 11
8000 FT STD=-1°C	11940	††	††	††	††	††
Landing Distance	11340	11	11	11	11	11
10000 FT STD=-5°C	††	††	††	††	††	††
Landing Distance	''	11	11	11	11	11

^{††} Landing distance exceeds 12000 feet.

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD -20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-32	
ABOVE standard day	+60	

SLOPE: Valid from –1% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	-1050	
DOWNHILL	+2540	

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-74	
TAILWIND	+320	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+120	

[END]

AILERON CONTROLS JAMMED OR RESTRICTED

NOTES: If freezing water is the cause, control may be regained by descending into warmer air.

If controls remain jammed or restricted in either the Captain's or the First Officer's aileron control path, separation of the control columns may provide reduced, but effective roll control authority. This may be accomplished with the application force (approximately 100 pounds on the un-jammed side) to separate the columns and control paths.

Phor to attempting to separate the columns, perform the following:	
Seat Belt Switch	۸C
Autopilot DISCONNEC	C1
(CONTINUED)	

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AILERON CONTROLS JAMMED OR RESTRICTED (Continued) NOTE: To minimize dynamic loads, reduce airspeed to as low as practical prior to disconnecting control paths. Use force, as required, (~100 pounds at wheel radius) to disconnect the two halves of the control system. If this action does not provide sufficient lateral control, use of aileron trim, or small and careful application of rudder can enhance roll control authority. Autothrottles will be available. Autopilot may be available. Select a runway with the least crosswind component, and plan to fly a long straight-in approach. [END] ANTI-ICE OPERATION WITH SINGLE PNEUMATIC SOURCE BLEED Switch (Affected Engine)OFF PACK Switch (Affected Engine).....OFF ISOL Switch AUTO FLIGHT INTO ICING CONDITIONS IS REQUIRED NO WING and TAIL AIR FOIL Anti-Ice Switches ON On final approach, Within 1 minute prior to selecting 25° landing flaps (normally just prior to landing gear extension), TAIL AIR FOIL Anti-Ice Switch..... OFF THEN ON NOTE: Do not extend flaps beyond 25/EXT. GO AROUND REQUIRED NO Flaps/slats retract to 18/EXT and use appropriate maneuvering speeds. When clear of icing conditions, WING AIR FOIL Anti-Ice Switch OFF After 3 minutes, TAIL AIR FOIL Anti-Ice Switch.....OFF

2

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[END]

[END]

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APPROACH WITH LESS THAN 1,000 LB/ 450 KG FUEL IN EITHER MAIN TANK

NOTE: If a go-around is required, avoid sustained nose-up attitudes in excess of 10°. FUEL X-FEED Lever..... ON IGNITION Switch.....ON NOTE: A go-around is not recommended with less than 500 pounds/225 kilograms fuel in each main tank or if both main tank aft pumps are inoperative. [END] CABIN INTERPHONE COMMUNICATIONS ON **EMERGENCY POWER** (Airplanes Without S/B 717-33-0019 Incorporated) CABIN INTERPHONE Switch..... ON CABIN INTERPHONE COMMUNICATION ESTABLISHED NO No further crew action required. [END] FLIGHT ATTENDANT IN CABIN Cabin Interphone Communication..... ESTABLISH [END] CABIN SMOKE/FUMES REMOVAL Oxygen Masks ON/100% Crew Communications ESTABLISH Combat smoke/fume source locally if practical. Descent to 9,000 Feet (Terrain and Conditions Permitting) START CABIN PRESSURE SYSTEM Switch MANUAL Observe outflow VALVE indicator moves to full OP. When airplane is below 10,000 feet, Right Forward Service Door Girt Bar DISENGAGE/STOW Loose Items. STOW Passengers SEAT BELTS FASTENED (CONTINUED)

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CABIN SMOKE/FUMES REMOVAL (Continued)

Right Forward Service Door. UNLATCHED

NOTE: High handle loads are required to unlatch door. When unlatched, allow door to seek its own position against airstream. Door will remain centered over opening.

Passenger Aft Emergency Exit Door DISARM/UNLOCK/OPEN

CAUTION: Do not use emergency exit handle to open aft emergency exit door, as this action will unlock latches, jettison tail cone and inflate escape slide.

NOTES: Position movable headrest to up position, covering emergency exit handle. Use normal handle to open.

Moderately high handle loads are required to unlock door. Door will open inward and airflow will sweep smoke forward.

SMOKE ELIMINATED

NO

NOTE: It may be necessary to pull aft edge of door inward slightly to engage latch properly.

Right Forward Service Door Girt Bar ENGAGE

Passenger Aft Emergency Exit Door. . . . CLOSE/LATCH/ARM

NOTE: Position movable headrest to down position, exposing emergency exit handle.

[END]

Land as soon as practicable.

NOTE: Determine advisability and capability of closing right forward service door and engaging girt bar. If unsuccessful, plan to use other passenger exits in event emergency evacuation is required.

[END]

DITCHING OR CRASH LANDING

Crew and Cabin Attendants ALERT / STOW LOOSE EQUIPMENT
Transponder AS REQUIRED
ATCADVISE
APU OFF
NO SMOKE/SEAT BELTS Switches
When below 10,000 feet,
CABIN PRESS SYSTEM SELECT Switch MANUAL
CABIN PRESS MANUAL
Rate Selector MANUALLY DEPRESSURIZE
L/R PACK Switches OFF
Cabin Attendants' Preparation COMPLETED
Crew Vests (If Required), Belts, Harness ON/FASTENED
Crew/Passenger Briefing COMPLETED
EMER LT Switch
(CONTINUED)

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DITCHING OR CRASH LANDING (Continued)

DITCHING
NO
CABIN PRESS MANUAL Rate Selector VALVE CLOSED
AVIONICS COOLING Switch
Gear HandleUP
NOTE: After ditching, airplane will assume a slight tail down attitude.
When airplane has stopped, and if time permits, ENG FIRE Handle/ AGENT LOW LightPULL, DISCH/CHECK
NOTE: BATT switch must be ON to discharge fire extinguishing agent.
[END]
FLAP/SLAT Handle
[END]
ELEVATOR CONTROLS JAMMED OR RESTRICTED
<u>WARNING:</u> Do not attempt troubleshooting to free jammed flight controls beyond the scope of this checklist, unless the airplane cannot be safely landed in the existing condition.
NOTE: If freezing water is the cause of the condition, descending into warmer air may free the restriction. If pitch control is not considered adequate for the flight conditions, it may be possible to regain partial pitch authority by separating the Captain and First Officer's control column axis.
If pitch control remains jammed, or restricted, or if pitch control is not adequate, perform the following actions:
Seat Belt Switch ON
Autopilot

Autopilot DISCONNECT

NOTE: To minimize dynamic loads, reduce airspeed to as low as practical prior to disconnecting control paths.

Autothrottles DISCONNECT

(CONTINUED)

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ELEVATOR CONTROLS JAMMED OR RESTRICTED

(Continued)

A substantial amount of differential force (about 130 pounds/59 kilograms) must be created between the captain and first officer's control columns in order for the mechanical disconnect to occur. Because it may not be apparent as to which control path is jammed, force should be applied to one column, and resistance to that force exerted on the other. If a disconnect does not occur, the application of force and column resistance should be reversed. A single audible "bang" sound may be heard from the base of the Captain's control column below the floor as the mechanical disconnect occurs.

NOTE: Elevator authority may be reduced. Pilot with the operative elevator control system should fly the airplane to a normal approach and touchdown.

If the columns cannot be disconnected and control column authority is not adequate, it may be necessary to control pitch with the stabilizer trim. In this condition, a long straight-in approach should be flown with careful control of pitch and airspeed. Path must be controlled with small thrust corrections.

[END]

ENG L AND ENG R FUEL FILTER LEVEL 1 ALERTS DISPLAYED

CAUTION: With both L and R "ENG FUEL FILTER" Level 1 alerts displayed, land at nearest suitable airport.

Engine Instruments MONITOR

Solid contaminants and/or fuel contamination may cause both the engine fuel filters to become clogged and bypass unfiltered fuel into the engines. Crews should maintain engine operation while closely monitoring engine instruments.

[END]

ENGINE ABNORMAL START

FUEL Switch (Affected Engine) OFF

STARTER DISENGAGED

NO

(CONTINUED)

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ENGINE ABNORMAL START (Continued)

STARTER DISENGAGED (CONTINUED)

Reengage starter for 30 seconds to clear engine of fuel.

NOTES: Advise maintenance if any limitations were exceeded. If no limitations were exceeded during first start attempt, another start may be attempted at Captain's discretion.

For subsequent start attempt motor engine for 30 seconds before moving FUEL switch to ON.

[END]

Continue motoring engine for 30 seconds after FUEL switch is moved to OFF.

NOTES: Advise maintenance if any limitations were exceeded. If no limitations were exceeded during first start attempt, another start may be attempted at Captain's discretion.

For subsequent start attempt, motor engine for 30 seconds before moving FUEL switch to ON.

[END]

ENGINE(S) COMPRESSOR STALL/SURGE

CAUTION: Avoid operating engines in a persistent surge or compressor stall condition. Surges or compressor stalls may not always be audible. Surges or compressor stalls are evidenced by engine thrust loss and rapidly rising or abnormally high TGT. Multiple surges or continuous compressor stall may cause compressor damage and possible engine failure.

NOTES: For any loss of thrust during takeoff, the ENGINE FIRE/ FAILURE TAKEOFF profile should be flown until reaching a safe altitude, or until obstacle clearance is assured.

Autothrottle OFF
Throttle (Affected Engine[s]) RETARD

NOTE: Retard throttle(s) on affected engine(s) (minimum for safe flight) until engine stabilizes or throttle reaches idle, whichever occurs first.

TGT, N1, N2 INDICATIONS NORMAL

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NO

ENGINE(S) COMPRESSOR STALL/SURGE (Continued)

TGT, N1, N2 INDICATIONS NORMAL				
(CONTINUED)				
WING or TAIL Anti-Ice Switch AS REQUIRED Closely monitor engine parameters for remainder of flight. [END]				
FUEL Switch(es) (Affected Engine[s]) (One At a Time) OFF THEN ON				
TGT, N1, N2 INDICATIONS RETURN TO NORMAL				
Operate engine(s) at level(s) at which stalls/surges do not recur. Affected ENG Anti-Ice Switch AS REQUIRED FLOW Switch AS REQUIRED WING or TAIL Anti-Ice Switch AS REQUIRED Closely monitor engine parameters for remainder of flight. [END]				
FUEL Switch (Affected Engine)				
Affected ENG Anti-Ice Switch OFF				
FLOW Switch				
WING or TAIL Anti-Ice Switch				
Refer to Emergency Non-Alert Procedures – ENGINE FAIL/SHUTDOWN IN FLIGHT.				

NOTE: Normally an engine should not be restarted if it was shut down due to a compressor stall/surge. However, at the Captain's discretion, a restart may be attempted if the engine is critical for sustaining safe flight. In this case, engine operation should be carefully monitored after restart and for the remainder of the flight, to ensure that a compressor stall/ surge has not resulted in engine damage.

Land at nearest suitable airport.

[END]

ENGINE RESTART IN FLIGHT

CAUTION: Auto-abort protection is not available for any inflight engine starts. All engine restarts in flight require the crew to monitor engine parameters for start exceedances, regardless of length of time the FUEL switch was in the OFF position. If engine start parameters are exceeded, start must be manually aborted.

NOTE: Air starts may be attempted at any altitude and airspeed. Air starts have been demonstrated below FL 300.

FUEL Switch OFF
AutothrottleOFF
Throttle (Affected Engine) IDLE
(CONTINUED)

(CONTINUED)

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TGT exceeds 850°C after FUEL switch was moved to ON. move FUEL switch to OFF.

ENGINE RESTARTS

NO

NOTE: If conditions permit, operate engine at idle for 5 minutes after start.

PACK Switches AS REQUIRED ENG/AIR FOIL Anti-Ice Switches AS REQUIRED FUEL X-FEED AS REQUIRED MCDUSELECT CLEAR* (LSK 6R) [END]

FUEL Switch OFF ENG/AIR FOIL Anti-Ice Switches AS REQUIRED

NOTES: If engine severe damage is not suspected, additional engine restarts may be attempted.

If restart attempts are unsuccessful, complete Emergency Non-Alert Procedure - ENGINE FAIL/SHUTDOWN IN FLIGHT.

[END]

INTERIM PROCEDURE 717-QRH-0002

REASON FOR INTERIM PROCEDURE: To provide crews with instructions to use to address the abnormal condition of both MCDUs failing to respond to inputs.

BOTH MCDUs FAIL TO RESPOND TO INPUTS (Interim Procedure)

If an MCDU does not accept keyboard inputs, attempt to input on the other MCDU. If that MCDU is also unresponsive, attempt to maintain VMC. Consideration should be given to landing at the nearest suitable VMC airport.

If conditions permit, attempt to restore normal MCDU function by executing the procedural steps below:

Confirm autopilot cycles from AP-1 to AP-2 or AP-2 to AP1.

NOTE: This action cycles the Master AP and FMS.

Wait 10 seconds, then push any MCDU Alpha key.

MCDU FUNCTION RETURNS

NO

Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

MCDU MENU Keys (One at a Time) PUSH

Push MENU key on each MCDU to attempt to access Standby NAV.

STANDBY NAV AVAILABLE

NO.

Flight may be continued using Standby NAV. However, consideration should be given to landing at the nearest suitable VMC airport.

Use NAV/RAD page to tune navaids as required.

[END]

MCDU FUNCTION RETURNS

NO

Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

(CONTINUED)

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BOTH MCDUs FAIL TO RESPOND TO INPUTS (Interim Procedure) (Continued)

MCDU FUNCTION RETURNS

NO

Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

Pull MCDU-1 circuit breaker, wait 10 seconds, then reset.

MCDU 1 FUNCTION RETURNS



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Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

Pull MCDU-2 circuit breaker, wait 10 seconds, then reset.

MCDU 2 FUNCTION RETURNS



Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

VIA-1 Circuit Breakers (Overhead A-16 & A-18)......PULL/RESET Pull VIA-1 circuit breakers, wait 10 seconds, then reset both.

EITHER MCDU FUNCTION RETURNS



Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

VIA-2 Circuit Breakers (Overhead A-22 & EPC E-2). PULL/RESET Pull VIA-2 circuit breakers, wait 10 seconds, then reset both.

(CONTINUED)

BOTH MCDUS FAIL TO RESPOND TO INPUTS (Interim

Procedure) (Continued)

EITHER MCDU FUNCTION RETURNS

NO

Normal flight operation may be continued at Captain's discretion. Consideration should be given to landing at the nearest suitable airport.

[END]

Unless NAV radio is already tuned and displays an appropriate runway for approach, advise ATC of inability to tune NAV radios and that vectors to a VMC runway will be necessary.

[END]

END INTERIM PROCEDURE 717-QRH-0002

FMS DUAL FAIL

MCDU Menu Pages (Both) ACCESS

NOTE: If an FMS failure occurs, respective MCDU MENU page will be displayed without the FMC1 or FMC2 prompt displayed in data field 1L. The STANDBY NAV/RAD* prompt will be displayed in data field 1R. MAP FAIL will be displayed on respective navigation display (ND).

The TIMEOUT RESELECT message is displayed when the MCDU has lost communications with the FMC (or other active subsystem). The message is cleared only by the CLR key, or after reestablishing communications. Occasional FMC timeouts may occur during normal operation. Timeouts due to lost communication with the FMC are indicated by the onside ND (MAP or PLN) displaying the MAP FAIL message, and the onside MCDU displaying the MENU page with the TIMEOUT RESELECT message in the scratchpad. The FMC prompt will also be missing.

When TIMEOUT RESELECT is displayed due to a FMC resynchronization fault, the MENU page will automatically be displayed with TIMEOUT RESELECT displayed in the scratchpad. If the FMC (SEL) prompt is displayed in data field 1L, push LSK 1L to reselect the FMC. If FMC (SEL) or FMC (REQ) is not displayed in data field 1L and time permits, wait up to 15 seconds for the message to display. If time does not permit, or if the FMC (SEL) or FMC (REQ) message does not display, push LSK 1R to select STANDBY operation or select the other FMS with the SISP FLT MGT switch as shown:

MCDUs (Both) SELECT STANDBY (LSK 1R PUSH)
Next Waypoint VERIFY

Original routing will be retained in both MCDUs.

Confirm active waypoint is correct or enter required waypoint with NAME/LAT/LONG format before continuing this procedure.

NOTES: No FMS database is available in standby mode. In STANDBY mode only, the MCDU MENU, F-PLN, PROG, NAV RAD, and DIR INTC keys are functional to select the related STANDBY pages.

In normal flight, the MCDU is continually updating the STANDBY NAV/RAD page to reflect the current onside FMC radio tuning. Thus, on entering the STANDBY mode of operation, the MCDU is already initialized with the current tuning data and that should appear.

With no database available as the flight progresses, station identifiers will not automatically be recognized and identified, and frequencies must be entered manually for tuning. Left side radios are tuned with the Captain's MCDU, and right side radios are tuned with the F/O's MCDU. It is additionally important to properly tune and identify radios to ensure the appropriate facility has been tuned.

SISP Switches..... AS REQUIRED

FLT DIR – If NAV 1 or NAV 2 is selected, offside roll bar will bias out
of view. If desired, onside FLT DIR may be selected by pushing
CAPT ON 2 (for NAV 2) or F/O ON 1 (for NAV 1).

(CONTINUED)

FMS DUAL FAIL (Continued)

• FMS – FMS switching should be in normal. If both MCDUs are in standby operation, NDs will display the information depicted in the following table.

FLT MGT SISP SW	CAPT ND DISPLAY	F/O ND DISPLAY
NORMAL	MCDU 1	MCDU 2
CAPT ON 2	MCDU 2	MCDU 2
F/O ON 1	MCDU 1	MCDU 1

NOTE: AP 1 will always follow MCDU 1. AP2 will always follow MCDU 2 regardless of SISP switching.

• CADC, IRS, VOR and APPR should be left in normal unless anomalies in those systems require switching.

If changes to routing are required, both MCDUs should be updated, time and workload permitting. If over water or if few navigational aids are available, both MCDU routings should be maintained. If time does not permit, one MCDU may be updated and utilized for navigational guidance. Waypoints must be entered in the NAME/LAT/LONG format. Direct-to is available only for waypoints entered in the route or to a LAT/LONG entered in data field 1L.

VOR, NDB, and ILS navaids must be tuned by frequency on respective MCDUs.

Monitor IRU positions.

IRU/MCDU with most accurate position (i.e., MCDU 1, AP 1 and NAV 1, if number 1 is most accurate) should be used for lateral guidance.

Compare fuel used/remaining to flight plan at each waypoint.

Vertical navigation is not available. Plan cruise, climb, and descent point accordingly.

Autothrottles are available in speed mode; however, autothrottles will disconnect in level change and G/A modes.

To compute approach speed, refer to QRH, Performance, LANDING REFERENCE SPEEDS (KIAS), VREF table.

Low speed protection is not available.

FMS databases STARS and APPROACHES are not available.

DUAL LAND, SINGLE LAND and APPR ONLY ILS modes are available. **[END]**

FMS SINGLE FAIL

NOTE: If an FMS failure occurs, respective MCDU MENU page will be displayed without the FMC1 or FMC2 prompt displayed in data field 1L. STANDBY NAV/RAD* prompt will also be displayed in data field 1R. MAP FAIL will be displayed on respective navigation display (ND).

(CONTINUED)

FMS SINGLE FAIL (Continued)

The TIMEOUT RESELECT message is displayed when the MCDU has lost communications with the FMC (or other active subsystem) and is cleared only by CLR key or after reestablishing communications. Occasional FMC timeouts may occur during normal operation. Timeouts due to lost communication with the FMC are indicated by the onside ND (MAP or PLN) displaying the MAP FAIL message, and the onside MCDU displaying the MENU page with the TIMEOUT RESELECT message in the scratchpad and with the FMC prompt missing.

When TIMEOUT RESELECT is displayed for a FMC resynchronization fault, the MENU page will automatically be displayed with TIMEOUT RESELECT displayed in the scratchpad. If the FMC (SEL) prompt is displayed in data field 1L, push LSK 1L to reselect the FMC. If FMC (SEL) or FMC (REQ) is not displayed in data field 1L and time permits, wait up to 15 seconds for the message to be displayed. If time does not permit, or the FMC (SEL) or FMC (REQ) message does not display, push LSK 1R to select STANDBY operation or select the other FMS on the respective SISP in the following procedure:

FMS 1 FAIL

NO

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CAPT FLT MGT SISP..... CAPT ON 2

Push FLT MGT on CAPT SISP and observe CAPT ON 2 illuminates.

MCDU 1 (MENU Page, LSK 1L) FMC 2

Push LSK 1L to select FMC 2 and observe FMC 2 <ACT> displays.

The Captain's ND must display VOR or APPR mode whenever the F/O's ND displays the VOR or APPR mode; selected modes need not be identical.

Captain's ND display may be in VOR or APPR when the F/O's display is in MAP or PLAN.

When the Captain's and F/O's ND displays are in MAP or PLAN the RANGE must be the same.

NOTES: MAP FAIL will appear after 20 seconds on the failed side when the active FMC is in the VOR, or APP, or PLAN mode and the failed FMC is in the MAP mode.

NO PLAN MODE will appear within 5 seconds on the failed side when the active FMC is in VOR, APP, or MAP mode and the failed FMC is in PLAN mode.

Either side can always display the VOR/APP mode at any time.

[END]

FMS 2 failed,

F/O FLT MGT SISP..... F/O ON 1

Push FLT MGT on F/O SISP and observe F/O ON 1 illuminates.

(CONTINUED)

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FMS SINGLE FAIL (Continued)

MCDU 2 (MENU Page, LSK 1L) FMC 1

Push LSK 1L to select FMC 1 and observe FMC 1 <ACT> displays.

The F/O's ND must display VOR or APPR mode whenever the Captain's ND displays the VOR or APPR mode; the selected modes need not be identical.

The F/O's ND display may be in VOR or APPR when the Captain's display is in MAP or PLAN.

When the F/O's and Captain's ND displays are in MAP or PLAN the RANGE must be the same.

NOTES: MAP FAIL will appear after 20 seconds on the failed side when the active FMC is in the VOR, or APP, or PLAN mode and the failed FMC is in the MAP mode.

NO PLAN MODE will appear within 5 seconds on the failed side when the active FMC is in VOR, APP, or MAP mode and the failed FMC is in the PLAN mode.

Either side can always display the VOR/APP mode at any time.

[END]

FUEL LEAK

NOTES: A fuel leak may be indicated by any of the following:

- "ENG L/R FUEL PRES" alert displayed
- · Visual observation of fuel leak or spray from either wing.
- · Strong odor of jet fuel in cabin area.
- · Excessive engine fuel flow.
- · Main tank fuel unbalance.

Lateral fuel imbalance accompanied by uncommanded filling of a tank indicates a tank to tank fuel leak. If fuel remaining is approximately equal to dispatch fuel quantity minus fuel used, fuel is being internally moved from tank to tank through a leak in the fuel lines. Refer to Supplemental Procedures – FUEL – CROSSFEED OPERATION.

If fuel remaining is not approximately equal to dispatch fuel minus fuel used, it may indicate fuel is being lost overboard due to a fuel leak. If a fuel leak is suspected, the following initial actions should be taken to attempt to identify, and isolate the source of the leak. A delay of several minutes may be required to observe possible fuel quantity abnormal condition(s) in this configuration.

CENTER TANK FUEL DECREASING AT AN ABNORMAL RATE

NO

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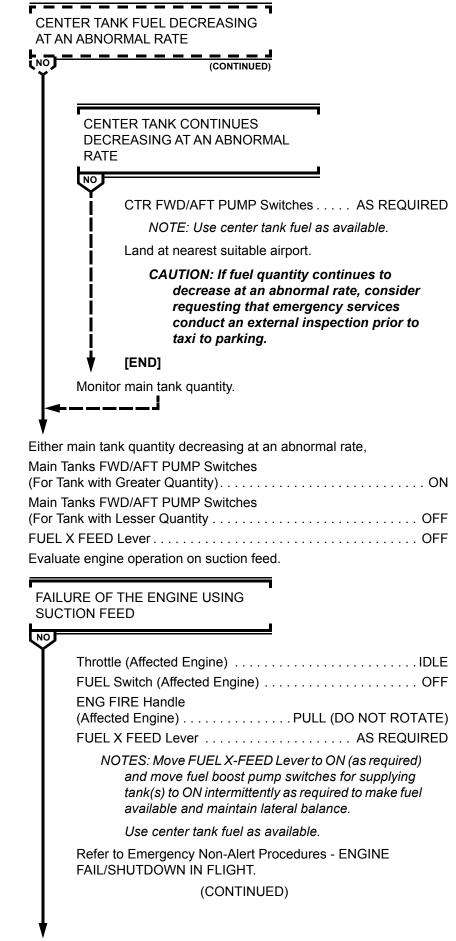
Main Tank FWD/AFT PUMP Switches (All).....ON
CTR FWD/AFT PUMP Switches....OFF
FUEL X FEED Lever....OFF
(CONTINUED)

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Center and Main Tank Pump Switches AS REQUIRED

NOTE: Move FUEL X-FEED Lever to ON (as required) and move fuel boost pump switches for supplying tank(s) to ON intermittently as required to make fuel available and maintain lateral balance.

Continue to monitor fuel quantity and usage.

CAUTION: If a main tank fuel leak is suspected to be associated with an engine (may or may not be recognizable by high fuel flow), do not use associated thrust reverse on landing. Consider shutting down engine with the engine fire handle after landing (do not discharge agent). Request emergency services conduct an external inspection prior to taxiing to parking.

Land at nearest suitable airport.

[END]

GEAR HANDLE WILL NOT MOVE TO DOWN POSITION

Emergency Gear Extension Lever..... PULL FULL UP/LATCHED

Raise cover, forcibly pull emergency extension lever to full up position and check holding latch is engaged.

It may be necessary to decrease airspeed to allow the nose gear to lock down.

GEAR HANDLE MOVES DOWN

NO

Emergency Gear Extension Lever STOW [END]

(CONTINUED)

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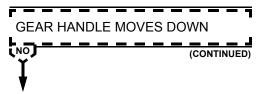
AP.80.25

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GEAR HANDLE WILL NOT MOVE TO DOWN POSITION

(Continued)



NOTE: Nosewheel steering to left will be restricted.

CAUTION: Stop airplane straight ahead on runway and establish communication with maintenance personnel. Do not stow emergency gear extension lever or move airplane unless directed to do so by maintenance. Maintenance personnel must close and latch main gear doors manually. Landing gear pins must be installed prior to taxi or tow.

[END]

GEAR HANDLE WILL NOT MOVE TO UP POSITION

NOSE STEERING WHEEL LOCKED
AND INDEX CENTERED

NOTE: Indicates failure of gear anti-retract mechanism.

GEAR HDL REL Button ... PUSH/HOLD
Gear Handle ... UP

[END]

Do not retract gear.

CAUTION: Nosewheel may not be centered and damage may occur if gear is retracted. Do not exceed 300 KIAS/.70 Mach.

GROUND SENSING CIRCUIT IN GROUND MODE



9

Refer to GROUND SENSOR FAILURE, in this section.

NOTE: The following are indications of ground sensing circuit in ground mode while in flight:

- Autopilot will not engage.
- Cabin fails to pressurize.
- T/O warning may sound.

[END]

If continuing flight to destination, consider fuel and ATC requirements. **[END]**

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GEAR UNSAFE LIGHT(S) ILLUMINATE WITH GEAR HANDLE DOWN

NOTES: If any gear indicator indicates unsafe, gear aural warning will sound until 100 feet AGL prior to touchdown.

It may be necessary to decrease airspeed to allow nose gear to lock down.

Emergency Gear Extension Lever..... PULL FULL UP/LATCHED

Raise cover, forcibly pull emergency gear extension lever to full up position and check holding latch is engaged.

ALL 3 GEAR INDICATE SAFE

NO

Emergency Gear Extension Lever STOW

ALL GEAR INDICATIONS REMAIN SAFE



No further crew action required.

[END]

Emergency Gear

Extension Lever PULL FULL UP/LATCHED

Raise cover, forcibly pull emergency gear extension lever to full up position and check holding latch is engaged.

NOTE: Nosewheel steering to left will be restricted.

Stop airplane on runway.

Close and latch the main gear doors manually.

Install landing gear pins prior to taxi or tow.

[END]

Emergency Gear Extension Lever..... STOW

10

NOTE: Stowing emergency gear extension lever will restore hydraulic pressure to extend side of gear actuator.

Refer to LANDING WITH ABNORMAL LANDING GEAR CONFIGURATION, in this section.

[END]

GEAR UNSAFE LIGHT(S) ILLUMINATE WITH GEAR HANDLE UP

 Airspeed
 MAX 230 KIAS

 Gear Handle
 DOWN

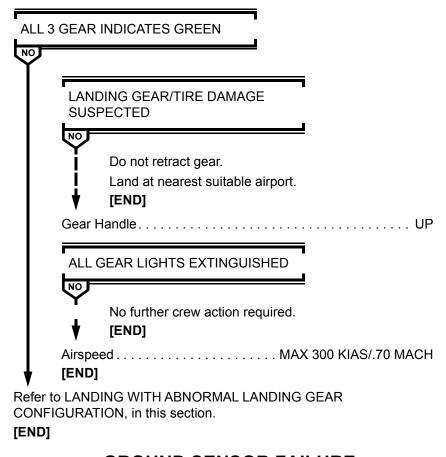
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GEAR UNSAFE LIGHT(S) ILLUMINATE WITH GEAR HANDLE UP (Continued)



GROUND SENSOR FAILURE

NOTE: When ground shift mechanism does not shift to flight mode, some systems will not be in normal mode:

- · Autopilot cannot be engaged.
- Takeoff warning sounds when flaps or slats are retracted.
- · Cabin fails to pressurize.

	Capin fails to pressurize.
10	GROUND CONTROL RELAY C/Bs K-32 and L-32 (Upper EPC) PULL
	During approach and just prior to final approach fix,
	CABIN PRESS SYSTEM Switch MANUAL
	CABIN PRESS MANUAL Rate Selector
	Observe outflow VALVE indicator moves to full OP.
	Do not arm auto spoilers.
	Refer to ESTIMATED LANDING DISTANCE tables located at the end of this procedure.
	Upon touchdown, manually deploy ground spoilers.
	NOTE: With ground control relay circuit breakers pulled, thrust reversers will not be available and engines will remain in flight idle mode.
	After landing, GROUND CONTROL RELAY C/Bs K-32 and L-32 (Upper EPC)

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(CONTINUED)

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AIR FOIL Anti-Ice Switches (Both).....OFF

40/EXT ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	3580	3820 4	4070	4310	4560	4800
Landing Distance	3300					
2000 FT STD=11°C	3700	3950 4210	4210	4470	4730	4980
Landing Distance	3700		4210			
4000 FT STD=7°C	3820	4090	4370	4640	4910	5190
Landing Distance	3020					
6000 FT STD=3°C	3960	4240	4530	4820	5110	5400
Landing Distance	3300					
8000 FT STD=-1°C	4100	4400	4710	5020	5330	5640
Landing Distance	4100	4400	4710	3020	5550	3040
10000 FT STD=-5°C	4260	4570	4900	5230	5560	5890
Landing Distance	7200	7570	7300	3230	5500	3090

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST -20°C to STD +40°C	D			
FEET PER °C				
BELOW standard day	-7			
ABOVE standard day	+20			

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL -50				
DOWNHILL	+110			

WIND: Valid from –10 knot tailwind to +20 knot headwind				
FEET PER KNOT				
HEADWIND	-15			
TAILWIND	+70			

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF	+60			

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

70	80	90	100	110	120
111	118	126	132	139	145
4210	4590	5000	5410	5820	6250
					0230
4300	4800 524	5240	5670	6120	6580
4390		3240	3070	0120	
4500	5030	5500	5070	6460	6950
4390	3030	3300	3970	0400	0930
4910	4910 5200	5780	6300	6820	7360
4010	3290	3700	0300	0020	7300
5050	5560	6100	6660	7220	7810
3030	3300	0100	0000	7230	7010
5310	5860	6450	7060	7670	8300
3310	3000	0+30	7000	7070	0300
	111	111 118 4210 4590 4390 4800 4590 5030 4810 5290 5050 5560	111 118 126 4210 4590 5000 4390 4800 5240 4590 5030 5500 4810 5290 5780 5050 5560 6100	111 118 126 132 4210 4590 5000 5410 4390 4800 5240 5670 4590 5030 5500 5970 4810 5290 5780 6300 5050 5560 6100 6660	111 118 126 132 139 4210 4590 5000 5410 5820 4390 4800 5240 5670 6120 4590 5030 5500 5970 6460 4810 5290 5780 6300 6820 5050 5560 6100 6660 7230

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST -20°C to STD +40°C	TD			
FEET PER °C				
BELOW standard day -1				
ABOVE standard day	+40			

SLOPE: Valid from –2% downhill to +2% uphill				
FEET PER 1% SLOPE				
UPHILL	-100			
DOWNHILL	+330			

WIND: Valid from –10 knot tailwind to +20 knot headwind				
FEET PER KNOT				
HEADWIND -24				
TAILWIND	+140			

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF	+100			

(CONTINUED)

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

	-					
WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	5145	5540 59	5960	6385	6805	7240
Landing Distance	3143		5900			1240
2000 FT STD=11°C	5335	5760 62	6210	6655	7115	7575
Landing Distance	3333		0210			
4000 FT STD=7°C	5555	6010 64	6485	6965	7460	7955
Landing Distance	5555	0010	0465	0905	7400	7955
6000 FT STD=3°C	5705	5795 6285	6785	7310	7835	8370
Landing Distance	3793	0200	0765	7310	7633	6370
8000 FT STD=-1°C	6060	6575	7125	7685	8250	8825
Landing Distance	0000	0373	7 123	7000	0230	0023
10000 FT STD=-5°C	6340	6895	7485	8090	8695	9310
Landing Distance	0340	0095	7400	0090	0093	9310

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-14	
ABOVE standard day	+40	

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –195			
DOWNHILL	+460		

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND –31			
TAILWIND	+145		

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+100	

(CONTINUED)

April 15, 2017

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	6080	6490	6920	7360	7790	8230
Landing Distance	0000	0490	0920	7300	1190	0230
2000 FT STD=11°C	6280	6720	7180	7640	8110	8570
Landing Distance	0200	0720	7 100	7040	0110	6370
4000 FT STD=7°C	6520	6990	7470	7960	8460	8960
Landing Distance	0320	0990	7470	7900	0400	0900
6000 FT STD=3°C	6780	7280	7790	8320	8850	9380
Landing Distance	0700	7200	1190	0320	0000	9300
8000 FT STD=-1°C	7070	7590	8150	8710	9270	9840
Landing Distance	7070	7590	0130	0710	9270	9040
10000 FT STD=-5°C	7370	7930	8520	9120	9720	10320
Landing Distance	7370	1930	0320	9120	9120	10320

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C	
FEET PER °C	
BELOW standard day -16	
ABOVE standard day	+40

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –290			
DOWNHILL	+590		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND –37		
TAILWIND	+150	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+100	

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	8360	8640	9045	9500	9975	10500
Landing Distance	0300	0040	9043 9300		9913	10300
2000 FT STD=11°C	8545	8885	9335	9825	10345	10885
Landing Distance	0040	0000	9333	9023	10343	10000
4000 FT STD=7°C	8830	9210	9695	10225	10790	11355
Landing Distance	8630	9210	9093	10223	10790	11333
6000 FT STD=3°C	9155	9575	10070	10635	11225	11840
Landing Distance	9133	9373	10070	10033	11223	11040
8000 FT STD=-1°C	9505	9975	10500	11065	11680	††
Landing Distance	9303	9913	10300	11003	11000	11
10000 FT STD=-5°C	9865	10365	10910	11485	††	++
Landing Distance	9000	10303	10910	11400	11	††

^{††} Landing distance exceeds 12000 feet.

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD –20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-24	
ABOVE standard day	+50	

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL –670		
DOWNHILL	+1565	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND -56	
TAILWIND	+235

VREF: Valid from 1 knot to 20 knot above Vref	
FEET PER KIAS	
ABOVE VREF	+110

(CONTINUED)

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40/EXT ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	111	118	126	132	139	145
S.L. STD=15°C	10640	10790	11170	11640	12160	††
Landing Distance	10040	10730	11170	11040	12100	- 11
2000 FT STD=11°C	10810	11050	11490	12010	††	††
Landing Distance	10010	11000	11430	12010	''	- ' '
4000 FT STD=7°C	11140	11430	11920	††	††	††
Landing Distance	11140	11430	11020	11	''	- ' '
6000 FT STD=3°C	11530	11870	††	††	††	††
Landing Distance	11000	11070	11	11	''	- ' '
8000 FT STD=-1°C	11940	††	††	††	††	††
Landing Distance	11340	''	11	- 11	''	- ' '
10000 FT STD=-5°C	††	††	††	††	††	††
Landing Distance	11	''	11	11	''	11

^{††} Landing distance exceeds 12000 feet.

NOTE: Flight Idle Thrust (to stop), Manual Ground Spoiler Deployment, Maximum Manual Anti-Skid Braking, Standard Day, No Wind, Zero Slope, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD -20°C to STD +40°C	
FEET PER °C	
BELOW standard day -32	
ABOVE standard day +60	

SLOPE: Valid from –1% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL -1050		
DOWNHILL	+2540	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-74
TAILWIND	+320

VREF: Valid from 1 knot to 20 knot above Vref	
FEET PER KIAS	
ABOVE VREF	+120

[END]

HIGH ENGINE VIBRATIONS/ICE SHEDDING

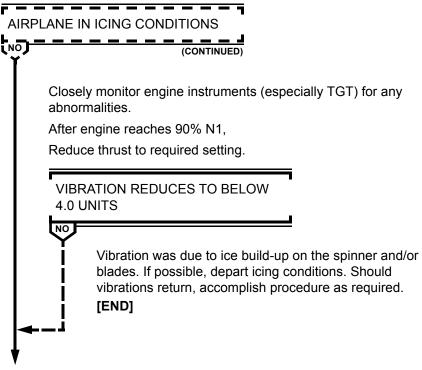
NOTE: This procedure assumes that if the airplane is in icing conditions, the engine anti-ice is selected on. If engine anti-ice is not selected on and fan blade icing is suspected, verify IGNITION is on, reduce thrust (one engine at a time) to idle, turn on engine anti-ice, and return thrust to required setting.

AIRPLANE IN ICING CONDITIONS

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717 QRH Abnormal Procedures

HIGH ENGINE VIBRATIONS/ICE SHEDDING (Continued)



If all other engine indications are normal, continue to operate engine. Should any abnormal indicators occur during the remainder of the flight (airframe vibration, high TGT etc.), the flight crew should evaluate the condition and if required, shut down the engine.

[END]

LANDING WITH ABNORMAL LANDING GEAR CONFIGURATION

NOTE: Review normal descent/approach/landing checklists. Also review PASSENGER EVACUATION and DITCHING OR CRASH LANDING procedures prior to landing.

NOSE GEAR UNSAFE WITH BOTH MAIN GEAR SAFE

NO

Perform normal approach for landing.

Ensure gear handle is down and spoilers are armed for deployment.

At touchdown,

PF begin actuating trim control to nose up to assist in holding nose off runway.

PNF monitor spoiler deployment and manually deploy spoilers if necessary.

After touchdown,

While elevator control is still effective, lower nosewheel gently to runway.

(CONTINUED)

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LANDING WITH ABNORMAL LANDING GEAR CONFIGURATION (Continued)

NOSE GEAR UNSAFE WITH BOTH MAIN GEAR SAFE

(CONTINUED)

Upon nose contact, use maximum braking (within limits of directional control) to stop airplane.

[END]

ONE MAIN GEAR UNSAFE WITH NOSE GEAR SAFE

NO

NOTE: Consideration should be given to selecting the widest runway available for landing due to the possibility of severe directional control difficulties. Consider touching down on the side of the runway corresponding to extended main gear.

Perform normal approach for landing.

Ensure that gear handle is down and that spoilers are disarmed and not used during landing.

Touch down on extended main gear. While elevator control is still effective lower nose gear gently to runway and hold wings level with ailerons as long as possible.

Maintain directional control with nosewheel steering and braking. **[END]**

ANY OTHER COMBINATION OF EXTENDED/RETRACTED GEAR

NO

Any gear which can be extended should be extended for landing whether on a prepared or unprepared surface.

Nosewheel will provide some additional directional control if extended. Main gear is designed to shear as required and will provide protection for fuselage.

Perform normal approach for landing.

Ensure gear handle is down and spoilers are disarmed and not used for landing.

Touch down on main gear, if extended.

While elevator control is still effective, lower nose gently to runway and hold wings level with ailerons as long as possible.

Maintain directional control with nosewheel steering (if available). **IEND1**

[END]

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED LANDING

Reduce gross weight to lowest practical value. Plan a wide pattern for speed stabilization on final approach. GND PROX WARN Switch FLAP OVRD NOTE: In FLAP OVRD, ground proximity warning will be disabled as a result of flaps not in landing range. All other functions of ground proximity warning system will remain operative. Perform appropriate normal checklists. Refer to LANDING REFERENCE SPEEDS (KIAS), VREF table in the PERFORMANCE section of the QRH. NOTE: Auto Ground Spoilers are inoperative with flaps less than 25 degrees. Ground spoilers must be manually deployed. Fly a normal glideslope. Autothrottles..... DISCONNECT BEFORE 50 FEET AGL On touchdown, lower nose gear to runway and immediately manually extend ground spoilers and apply full reverse thrust and brakes as required. Do not attempt to achieve a smooth touchdown. Full reverse thrust may be used to a complete stop. (CONTINUED)

`

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED LANDING (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	4240	4630	5010	5380	5780	**
Landing Distance	4240	4030	3010	3300	3700	
2000 FT STD=11°C	4420	4820	5230	5620	6040	**
Landing Distance	4420	4020	3230	3020	0040	
4000 FT STD=7°C	4610	5030	5460	5880	**	**
Landing Distance	4010	3030	3400	3000		
6000 FT STD=3°C	4810	5260	5700	6140	**	**
Landing Distance	4010	3200	3700	0140		
8000 FT STD=-1°C	5020	5490	5970	6430	**	**
Landing Distance	3020	3490	3970	0430		
10000 FT STD=-5°C	5250	5750	6250	6780	**	**
Landing Distance	3230	3730	0230	0700		

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C	
FEET PER °C	
BELOW standard day -10	
ABOVE standard day	+34

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL -50		
DOWNHILL	+50	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND -16	
TAILWIND	+50

VREF: Valid from 1 knot to 20 knot above Vref	
FEET PER KIAS	
ABOVE VREF	+34

^{**} Maximum Brake Energy Limit.

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED LANDING (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

70	80	90	100	110	120
158	170	180	190	*199	*208
5450	6110	6700	7500	9210	**
3430	0110	0790	7500	0210	
5760	6460	7200	7050	9720	**
3700	6460	7200	7930	0720	
6000	6950	7640	9440	**	**
6090	0000	7040	0440		
6450	7270	8110	8980	**	**
0430					
6940	7720	8630	0590	**	**
0040	1120	0030	9300		
7290	8330	0210	**	**	**
1200	0230	9210			
		158 170 5450 6110 5760 6460 6090 6850 6450 7270 6840 7720	158 170 180 5450 6110 6790 5760 6460 7200 6090 6850 7640 6450 7270 8110 6840 7720 8630	158 170 180 190 5450 6110 6790 7500 5760 6460 7200 7950 6090 6850 7640 8440 6450 7270 8110 8980 6840 7720 8630 9580	158 170 180 190 *199 5450 6110 6790 7500 8210 5760 6460 7200 7950 8720 6090 6850 7640 8440 ** 6450 7270 8110 8980 ** 6840 7720 8630 9580 **

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C			
FEET PER °C			
BELOW standard day	-14		
ABOVE standard day	+50		

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –176			
DOWNHILL +190			

WIND: Valid from -10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND -32			
TAILWIND +108			

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +50			

^{**} Maximum Brake Energy Limit.

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED

LANDING (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	6340	7145	7980	8850	9720	**
Landing Distance	0040					
2000 FT STD=11°C	6710	7570	8460	9385	10320	**
Landing Distance	0710	7370	0400	3303	10020	
4000 FT STD=7°C	7105	8030	8980	9965	**	**
Landing Distance	7 103	0030	0300	3303		
6000 FT STD=3°C	7535	8525	9540	10600	**	††
Landing Distance	7 333					
8000 FT STD=-1°C	8005	9060	10150	11240	††	††
Landing Distance	0005	9000	10130	11240	''	11
10000 FT STD=-5°C	8530	9665	10835	++	++	++
Landing Distance	0000	9003	10033	††	††	††

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C			
FEET PER °C			
BELOW standard day -17			
ABOVE standard day	+59		

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –308			
DOWNHILL +293			

WIND: Valid from -10 knot tailwind to +20 knot headwind				
FEET PER KNOT				
HEADWIND -45				
TAILWIND	+148			

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +59			

^{**} Maximum Brake Energy Limit.

^{††} Landing distance exceeds 12000 feet.

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED LANDING (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	7230	8180	9170	10200	11230	††
Landing Distance	7230	0100	9170	10200	11230	''
2000 FT STD=11°C	7660	8680	9720	10820	11920	††
Landing Distance	7000	0000	3720	10020	11320	''
4000 FT STD=7°C	8120	9210	10320	11490	††	††
Landing Distance	0120	3210	10320	11430	11	- 11
6000 FT STD=3°C	8620	9780	10970	††	††	††
Landing Distance	0020					
8000 FT STD=-1°C	9170	10400	11670	††	††	††
Landing Distance	9170	10400	11070	''	11	11
10000 FT STD=-5°C	9780	11100	++	††	††	††
Landing Distance	9700	11100	††			11

^{*} Exceeds Tire Limit Speed

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-20	
ABOVE standard day	+68	

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –440			
DOWNHILL +536			

WIND: Valid from -10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-58
TAILWIND	+188

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+68	

^{††} Landing distance exceeds 12000 feet.

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED

LANDING (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	8490	9655	10840	††	††	††
Landing Distance	0430	3033	10040	11	11	- 11
2000 FT STD=11°C	9005	10250	11505	††	††	††
Landing Distance	3005	10230	11303	11	11	11
4000 FT STD=7°C	9555	10860	††	††	††	††
Landing Distance	9555	10000	- ' '	11	11	- 11
6000 FT STD=3°C	10150	11490	††	††	††	††
Landing Distance	10130	11430	- 11	11	11	11
8000 FT STD=-1°C	10800	††	††	††	††	††
Landing Distance	10000	11	- 11	11	11	11
10000 FT STD=-5°C	11450	††	††	††	††	++
Landing Distance	11430	11	11	11	11	††

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-24	
ABOVE standard day	+82	

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –782			
DOWNHILL	+1142		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND -77		
TAILWIND	+270	

VREF: Valid from 1 knot to 20 knot above Vref		
FEET PER KIAS		
ABOVE VREF	+82	

(CONTINUED)

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^{††} Landing distance exceeds 12000 feet.

NO FLAP/NO SLAT OR NO FLAPS / SLATS EXTENDED LANDING (Continued)

0/RET ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	158	170	180	190	*199	*208
S.L. STD=15°C	9750	11130	††	††	††	††
Landing Distance	3730	11130	''	11	- 11	11
2000 FT STD=11°C	10350	11820	††	††	††	††
Landing Distance	10330	11020	''	11	- 11	11
4000 FT STD=7°C	10990	††	††	††	††	††
Landing Distance	10990	11	11	11	11	11
6000 FT STD=3°C	11680	††	††	††	††	††
Landing Distance	11000	11	''	11	11	11
8000 FT STD=-1°C	††	††	††	††	††	††
Landing Distance		11	''	11	11	11
10000 FT STD=-5°C	††	++	††	††	††	††
Landing Distance		††	11	11	11	11

^{*} Exceeds Tire Limit Speed.

NOTE: Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Manual Spoiler Deployment, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C	
FEET PER °C	
BELOW standard day	-28
ABOVE standard day	+96

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –1124			
DOWNHILL +1748			

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-96	
TAILWIND	+352	

VREF: Valid from 1 knot to 20 knot above Vref				
FEET PER KIAS				
ABOVE VREF	+96			

[END]

PASSENGER EVACUATION

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^{††} Landing distance exceeds 12000 feet.

PASSENGER EVACUATION (Continued)
FLAP/SLAT Handle
NOTE: Flap position is for unobstructed egress from airplane. If airplane is at gate and ramp is congested with service
vehicles, use good judgment to ensure maximum safety of
passengers.
EMER LT Switch ON
FUEL Switches OFF
ENG FIRE Handles PULL
NOTE: If required, discharge fire agent.
Command Evacuation EVACUATE
APU FIRE CONT Switch OFF & AGENT ARM
Evacuation
Time and conditions permitting,
BATT Switch OFF
[END]
RUDDER JAMMED OR RESTRICTED
"RUDDER RESTRICTED" ALERT
DISPLAYED
NO
Level 1 alert indicates that either the primary or secondary rudde limiter is over-restricting the rudder. In this case, the rudder canno be overpowered. Limited rudder control is available. Select a runway with minimum crosswind. [END]
Use rudder trim (if available) and aileron for directional control.
·
NOTES: If freezing water is the suspected cause, and if conditions permit, descend to warmer air and attempt to regain rudder control.
If rudder input is not possible, use operative flight controls, trim, and thrust as required for airplane control.
Select a runway with minimum crosswind.
AUTOBRAKE Selector (If Installed) OFF
Rudder pedal steering is inoperative.
If directional control is a concern, use differential braking at high speed.
Tiller nose wheel steering can be used as speed decreases. [END]
SEVERE TURBULENCE/HEAVY RAIN
INGESTION
Turbulence, Penetration Speed
NOTE: Below 10,000 feet, the greater of 250 KIAS or minimum maneuvering speed may be used.
IGNITION SwitchON
(CONTINUED)
(CONTINUED)

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SEVERE TURBULENCE/HEAVY RAIN INGESTION (Continued) Autothrottles..... NOTES: Use speed brakes to slow airplane. Adjust throttles only if necessary to avoid excessive airspeed variations. Use smooth power changes and maintain thrust as high as practicable. Do not chase airspeed. If throttles are at idle when extreme precipitation is encountered, N2 should be monitored for spool-down below idle RPM. Delay throttle advance as long as possible and, when necessary, very slowly advance one throttle at a time while monitoring N2 for response. If no response is noted, return throttle to idle and wait for indications of spool-up to idle rpm. NOTE: Use autopilot in turbulence. Closely monitor autopilot operation and be prepared to disconnect autopilot only if airplane does not maintain an acceptable attitude. If autopilot disconnects, pilot should smoothly take control and stabilize pitch attitude. Fly attitude as the primary pitch reference. Sacrifice altitude to maintain attitude. Disregard flight director pitch bar. Do not trim manually. After recovery, autopilot should be reengaged if available. WARNING: Do not attempt to overpower the autopilot with control forces. This can cause the autopilot to disengage with too much control input, which could result in over-control during recovery. Every attempt should be made not to over-control. Longitudinal control forces at high altitude will be lighter than those which the pilot experiences at low altitude due to altitude effects. When the autopilot is off, use minimum control inputs to fly attitude. ENG and AIR FOIL Anti-Ice Switches AS REQUIRED NOTE: Reduced engine bleeds will increase engine flameout

margin during periods of heavy rain ingestion.

When conditions no longer exist,

ENG and AIR FOIL Anti-Ice Switches AS REQUIRED Autothrottles.....ON [END]

SPOILER STUCK IN EXTENDED POSITION

Autopilot DISCONNECT

CAUTION: Do not use autopilot. Full aileron trim and 80° of control wheel input may be required to counteract a stuck spoiler panel. This control configuration will result in roll asymmetry; i.e., a slightly faster roll rate in the direction of the stuck spoiler panel and noticeably slower roll rate in the opposite direction.

NOTE: Crosswind capability of the airplane may be reduced. Select a runway with minimum crosswind.

During landing,

- · Use FLAPS 25.
- Minimum approach speed Vref + 10.

NOTE: Spoilers may be armed for landing.

[END]

STABILIZER INOPERATIVE

NOTE: Extended trim operation may result in trim motor thermal shutdown. Trim motor operation may return after sufficient cooling period.

AIRPLANE IN TRIM WITH LANDING FLAPS SET



Land with selected flaps.

[END]

Refer to ESTIMATED LANDING DISTANCE tables located at the end of this procedure.

Use FLAPS 40 for landing and increase Vref speed by 20 knots or, if time permits, by the speed increment from the STABILIZER INOPERATIVE – SPEED INCREMENT chart below.

Autothrottles DISCONNECT BEFORE 50 FEET AGL

Autothrottles will not retard if flaps are set less than landing range.

Do not reduce thrust until landing flare has been initiated and sink rate has been reduced.

Make positive main gear touchdown to minimize float and take positive action to lower nose to runway.

STABILIZER INOPERATIVE - SPEED INCREMENT CHART

NOTE: Use takeoff C.G. (% MAC) if landing C.G. is unknown.

	CENTER OF GRAVITY (% MAC)					
	6	10	15	20	25	30 to 34
STAB ANGLE	SPEED ADDITIVE (KIAS)					
2.5° AND	35	31	26	20	14	9
2° AND	33	28	23	18	12	7
0°	25	21	18	12	6	1
2° ANU	20	17	13	7	1	0
4° ANU	15	12	8	1	0	0
6° ANU	11	7	3	0	0	0
8° ANU	6	2	0	0	0	0
10° ANU	1	0	0	0	0	0

40/EXT ESTIMATED LANDING DISTANCE (FEET) DRY RUNWAY

BR700-715A1-30/-715 C1-30 Engines

BR700-7 15A1-307-7 15 C1-30 Engines						
WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	3680	3960	4250	4530	4810	5080
Landing Distance	3000	3900	4230	4550	4010	5060
2000 FT STD=11°C	3800	4100	4400	4700	4990	5290
Landing Distance	3000	4100	4400	4700	4990	5290
4000 FT STD=7°C	3930	4250	4570	4880	5200	5510
Landing Distance	3930	4230	4370	4000	3200	3310
6000 FT STD=3°C	4070	4410	4750	5080	5420	5750
Landing Distance	4070	70 4410	4730	3000	3420	5750
8000 FT STD=-1°C	4220	4580	4940	5300	5660	6020
Landing Distance	4220	4300	4940	5500	5000	0020
10000 FT STD=-5°C	4380	4770	5150	5530	5920	6300
Landing Distance	4300	4//0	3130	3330	3920	0300

NOTES: Threshold speeds and landing distances in this table are based on a 20 knot increase in Vref.

Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-8	
ABOVE standard day	+28	

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –40			
DOWNHILL	+40		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-12	
TAILWIND	TAILWIND +40	

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF	+28		

(CONTINUED)

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April 15, 2017

40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

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WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	4370	4780	5200	5640	6080	6540
Landing Distance	4370	4700	3200	3040	0000	0340
2000 FT STD=11°C	4550	4990	5450	5920	6400	6900
Landing Distance	4330	4990	3430	3920	0400	0900
4000 FT STD=7°C	4750	5230	5720	6230	6760	7300
Landing Distance	4730	3230	3720	0230	0700	7300
6000 FT STD=3°C	4970	5480	6020	6570	7150	7730
Landing Distance	4970	3400	0020	0370	7130	1130
8000 FT STD=-1°C	5210	5770	6350	6950	7580	8210
Landing Distance	3210	3110	0330	0330	7500	0210
10000 FT STD=-5°C	5480	6090	6720	7380	8050	8740
Landing Distance	3400	0090	0720	1300	0000	0740

NOTES: Threshold speeds and landing distances in this table are based on a 20 knot increase in Vref.

Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-10	
ABOVE standard day	+36	

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –128			
DOWNHILL	+140		

WIND: Valid from –10 knot tailwind to +20 knot headwind		
FEET PER KNOT		
HEADWIND	-24	
TAILWIND +80		

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +36			

(CONTINUED)

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40/EXT ESTIMATED LANDING DISTANCE (FEET) GOOD TO MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	5015	5520	6025	6570	7110	7675
Landing Distance	3013					
2000 FT STD=11°C	5240	5775	6325	6895	7475	8075
Landing Distance	3240					
4000 FT STD=7°C	5495	6065	6650	7260	7880	8520
Landing Distance	3483	0000	0030	7200	7000	0520
6000 FT STD=3°C	5770	6375	7005	7655	8320	9000
Landing Distance	3770					
8000 FT STD=-1°C	6075	6725	7395	8095	8810	9540
Landing Distance	0075	0725	7393	0093	0010	9040
10000 FT STD=-5°C	6415	7115	7835	8590	9350	10135
Landing Distance	0415	7 113	7033	0090	9330	10133

NOTES: Threshold speeds and landing distances in this table are based on a 20 knot increase in Vref.

Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –		
FEET PER °C			
BELOW standard day	-12		
ABOVE standard day	+43		

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –223			
DOWNHILL	+263		

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND	-33		
TAILWIND	+108		

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +43			

(CONTINUED)

April 15, 2017

40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	5660	6260	6850	7500	8140	8810
Landing Distance	3000		0030	7300		0010
2000 FT STD=11°C	5930	6560	7200	7870	8550	9250
Landing Distance	3930	0300	1200	1010	0550	9230
4000 FT STD=7°C	6240	6900	7580	8290	9000	9740
Landing Distance	0240	0300	7300	0230	3000	3140
6000 FT STD=3°C	6570	7270	7990	8740	9490	10270
Landing Distance	0370	1210	7330	0740	3430	10270
8000 FT STD=-1°C	6940	7680	8440	9240	10040	10870
Landing Distance	0340	7000	0-1-10	3240	10040	10070
10000 FT STD=-5°C	7350	8140	8950	9800	10650	11530
Landing Distance	7 330	0140	0330	3000	10000	11330

NOTES: Threshold speeds and landing distances in this table are based on a 20 knot increase in Vref.

Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from STD – 20°C to STD +40°C		
FEET PER °C		
BELOW standard day	-14	
ABOVE standard day	+50	

SLOPE: Valid from –2% downhill to +2% uphill			
FEET PER 1% SLOPE			
UPHILL –318			
DOWNHILL	+386		

WIND: Valid from –10 knot tailwind to +20 knot headwind			
FEET PER KNOT			
HEADWIND	-42		
TAILWIND	+136		

VREF: Valid from 1 knot to 20 knot above Vref			
FEET PER KIAS			
ABOVE VREF +50			

(CONTINUED)

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40/EXT ESTIMATED LANDING DISTANCE (FEET) MEDIUM TO POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

	•					
WEIGHT (1000 LB)	70	80	90	100	110	120
Vref Speeds (KIAS)	132	138	145	152	158	164
S.L. STD=15°C	6580	7305	8040	8825	9605	10420
Landing Distance	0380				9003	10420
2000 FT STD=11°C	6900	7665	8450	9265	10090	10925
Landing Distance			0450	9205	10090	10925
4000 FT STD=7°C	7260	8065	8895	9760	10625	11505
Landing Distance	7260	6005	0093	9700	10023	11303
6000 FT STD=3°C	7650	8505 9380	0380	9380 10300	11220	††
Landing Distance	7030		9300			
8000 FT STD=-1°C	8085	8990	9920	10870	11820	++
Landing Distance	0000	0990	9920	10070	11020	††
10000 FT STD=-5°C	8570	9535	10525	11535	++	++
Landing Distance	0370	9000	10323	11333	††	††

^{††} Landing distance exceeds 12000 feet.

NOTES: Threshold speeds and landing distances in this table are based on a 20 knot increase in Vref.

Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –
FEET PER °C	
BELOW standard day	-17
ABOVE standard day	+59

SLOPE: Valid from –2% downhill to +2% uphill	
FEET PER 1% SLOPE	
UPHILL	– 559
DOWNHILL	+816

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	– 55
TAILWIND	+193

VREF: Valid from 20 knot above Vref	1 knot to
FEET PI	ER KIAS
ABOVE VREF	+59

(CONTINUED)

April 15, 2017

40/EXT ESTIMATED LANDING DISTANCE (FEET) POOR REPORTED BRAKING ACTION

BR700-715A1-30/-715 C1-30 Engines

WEIGHT (1000 LB)	70	80	90	100	110	120	
Vref Speeds (KIAS)	132	138	145	152	158	164	
S.L. STD=15°C	7500	7500 8350 9230	7500 8350 9230 10150 11070	11070	††		
Landing Distance	7300		9230 1	10130	11070	11	
2000 FT STD=11°C	7870	9770	8770 9700	9700	700 10660	11630	††
Landing Distance	7670 6770	9700	10000	11030			
4000 FT STD=7°C	8280 9230	9230 10210	11230	††	††		
Landing Distance		10210					
6000 FT STD=3°C	8730	9740	10770	11860	††	††	
Landing Distance	0730	9740	10770	11000	11	11	
8000 FT STD=-1°C	9230	10300	11400	††	††	††	
Landing Distance	9230	10300	11400	11	11	11	
10000 FT STD=-5°C	9790	10930	††	††	++	††	
Landing Distance	3130	10330	11	''	††	11	

^{††} Landing distance exceeds 12000 feet.

NOTES: Threshold speeds and landing distances in this table are based on a 20 knot increase in Vref.

Full Reverse Thrust (two engines at maximum reverse thrust to 80 KIAS, then idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet.

CORRECTIONS:

TEMPERATURE: Valid from ST 20°C to STD +40°C	D –
FEET PER °C	
BELOW standard day	-20
ABOVE standard day	+68

SLOPE: Valid from –2% downhill to +2% uphill		
FEET PER 1% SLOPE		
UPHILL	-800	
DOWNHILL	+1246	

WIND: Valid from –10 knot tailwind to +20 knot headwind	
FEET PER KNOT	
HEADWIND	-68
TAILWIND	+250

VREF: Valid from 20 knot above Vref	1 knot to
FEET PE	ER KIAS
ABOVE VREF	+68

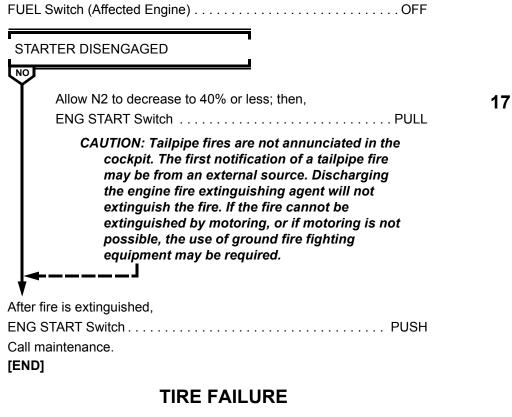
[END]

STARTER VALVE MANUAL OPERATION

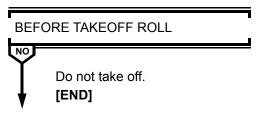
If unable to electrically open start valve,
BEFORE START Checklist
MAINT INTPH Switch
ENG START Switch PULL
Command ground crew to open start valve.
When N2 rpm reaches 20% or maximum motoring,
FUEL Switch ON
After TGT rise and N2 rpm 41%,
Command ground crew to close start valve.
[END]

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TAILPIPE FIRE

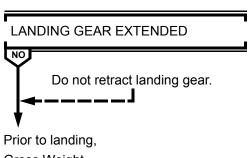


NOTE: Aircraft vibration or the blowout of a tire should provide external cues of a tire failure.



Reject or continue takeoff, depending on conditions.

NOTE: At speeds in excess of V1-20, consider continuing takeoff. Stopping performance is degraded with tire failure.



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VOLCANIC ASH

If a volcanic ash cloud is inadvertently entered during flight, depart the area by the shortest route possible. Consider executing a descending 180° turn. Do not use windshield wipers.

NOTE: Use of windshield wipers for ash or dust removal will result in minute scratches on the windshield. These will create a blossoming effect at night and could make landing approach difficult.

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CAUTION: If airspeed indications are abnormal, refer to Emergency Non-Alert Procedures – AIRSPEED UNRELIABLE for pitch guidance information.

NOTES: Airspeed indications may be erratic and unreliable or a complete loss of airspeed indication may occur.

Avoid rapid throttle movements if possible.

If compressor and/or turbine blades have been eroded, an increase in fuel flow and TGT may be noticed.

Perform the following actions as rapidly as possible:

Autothrottles DISENGAGE
Throttles (All)IDLE
IGNITION SwitchON
ENG Anti-Ice Switches ON
WING and TAIL AIR FOIL Anti-Ice Switches ON
FLOW Switch

NOTE: Decreasing TGT will reduce debris buildup on the turbine blades and hot section, and significantly reduce damage to the compressor section and blade tips due to erosion.

ENGINE(S) FLAMED OUT OR STALLED, OR TGT BEYOND LIMITS, OR INCREASING RAPIDLY TOWARD LIMITS

NO

START PUMP Switch
Windmill start envelope is Vmo to 250 KIAS. A minimum N2 of 8% is required for an air start. Higher airspeed increases N2 rpm and improves airstart capability.
FUEL Switch (Affected Engine[s]) OFF
Time and conditions permitting, leave fuel switch in the OFF position for 15 to 30 seconds to allow engine to cool.
NOTE: Allowing engine hot section to cool before restart may allow shedding of accreted molten volcanic ash material from Nozzle Guide Vanes.
FUEL Switch (Affected Engine[s])
(CONTINUED)

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ENGINE(S) FLAMED OUT OR STALLED, OR TGT BEYOND LIMITS, OR INCREASING RAPIDLY TOWARD LIMITS

NO (CONTINUED)

Monitor start.

NOTES: Engines <u>may</u> accelerate to idle very slowly at high altitudes. This may be incorrectly interpreted as a hung start or an engine malfunction not caused by volcanic ash.

If an engine fails to start, repeated attempts should be made immediately. A successful start may not be possible until clear of volcanic ash cloud and airspeed and altitude are within normal range.

Consider starting the APU, if available. The APU can be used to power the electrical system in the event of multiple engine loss.

APU OR ENGINE GENERATOR
POWERING AIRPLANE

NO

EMER PWR Switch OFF THEN ARM

Land at nearest suitable airport.

NOTES: A precautionary landing should be made if damage has occurred to the airplane or abnormal engine operation was observed while operating in the ash cloud.

The abrasive effects of volcanic ash on windshields and landing lights may significantly decrease visibility for approach and landing.

[END]

WINDSHIELD CRACKED OR ARCING

INNER GLASS PANE CRACKED

NO

Locate and pull affected WINDSHIELD ANTI-FOG CB (lower EPC).

- Left, Right, and Center ANTI-FOG C/B X-26
- Eyebrow (If Installed) and Clearview ANTI-FOG C/B Z-26

(CONTINUED)

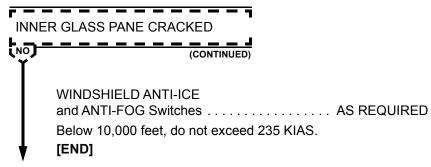
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TBC Abnormal Procedures

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April 15, 2017 AP.80.55

WINDSHIELD CRACKED OR ARCING (Continued)



Locate and pull the affected WINDSHIELD ANTI-ICE C/B (lower EPC).

• Left Anti-Ice C/B X-24

18

- Center Anti-Ice C/B X-25
- Right Anti-Ice C/B Z-24

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Abnormal Procedures

April 15, 2017

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TBC

NO TAKEOFF LEVEL 1 ALERTS

Do not take off with any of the following Level 1 alerts displayed unless MEL relief for the related system discrepancy is documented in the airplane's maintenance log.

If in flight and any of the following alerts display, review Consequences message(s). Continue to an appropriate destination, considering Consequences message(s) and maintenance/MEL relief requirements for subsequent departures. Make an appropriate maintenance log book entry.

ACCESS COMPT DOOR **CAWS FAIL** IRS 2 ON BAT AFT BULKHEAD DOOR COLUMN DISC IRS__NO ALIGN AIR ISOL DISAG DCU FAIL LAVATORY SMOKE OVERWING DOOR AIR SYS FAULT EIS SINGLE SOURCE AOA HEAT FAIL PITOT FAIL ELEC COMPT DOOR APU VALVE DISAG **ELEC FAULT** PODS FAIL BATT CHARGER FAIL EMER POWER ON PODS TEST FAIL **BATT CHARGING** EMER PWR TST FAIL **PSEU FAIL BRAKE PRESS LO** ENG A-ICE DISAG RAT PROBE FAIL ENG FUEL PRES BUS AC GS OFF **RUD PITOT FAIL** BUS AC__OFF ENG_FUEL FILTER RUDDER RESTRICTED BUS DC OFF ENG OIL FILTER SPOILER FAIL BUS TIE_LOCKOUT ENG_SYS FAIL SPOILER FAULT * FIRE AGENT_LO CAB PRES MAN FAIL STAIRWAY DOOR FWD CABIN DOOR FIRE DET__FAIL STALL WARN FAULT CARGO AGENT LO **FUEL LEVEL LO** TANK PUMPS LO CARGO DOOR_ **GALLEY DOOR** VIA CONFIG DISAG CRG SMK FAIL IRS BATT LO VIA FAIL WING ICE DETECTED

^{*} See Interim Procedure 717-QRH-0004 on following page.

INTERIM PROCEDURE 717-QRH-0004

The SECU will occasionally display the "SPOILER FAULT" message due to excessively tight tolerances in the SECU system.

Interim Procedure 717-QRH-0004 is cancelled with incorporation of Boeing Service Bulletin 717-27-0006 or production equivalent.

"SPOILER FAULT"

If the Level 1 alert message "SPOILER FAULT" displays while on the ground:

Pull and reset the following circuit breakers:

- Spoiler SECU Inboard Channel (Lower EPC P-35)
- Spoiler SECU Outboard Channel (Lower EPC R-35)

NOTES: Allow a 30-second pause before resetting pulled circuit breakers. If the alert does not display again, no maintenance action is necessary.

Ensure that each occurrence is documented in maintenance forms.

END INTERIM PROCEDURE 717-QRH-0004

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717 QRH Level 1/0 Alerts TBC

A.10.2 April 15, 2016

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Magnetic Variation Table – Non-Directional Beacon Approach Mitigation List (BGBW thru CYXY)	1
Magnetic Variation Table – Non-Directional Beacon Approach Mitigation List (CYYE thru PASX)	2

April 15, 2016

RD.TOC.0.2

Magnetic Variation Table – Non-Directional Beacon Approach Mitigation List (BGBW thru CYXY)

ICAO ID	Airport Name	Latitude	Longitude	Error in 2015 (deg)	Error in 2016 (deg)	Error in 2017 (deg)	Error in 2018 (deg)	Error in 2019 (deg)	Error in 2020 (deg)
BGBW	Narsarsuaq	N61°09.6	W045°25.5		6.37	6.67	6.97	7.27	7.57
BGSF	Kangerlussuaq	N67°01.0	W050°41.4	8.21	8.62	9.02	9.43	9.83	10.23
CFX4	Manning	N56°57.1	W117°38.6						6.30
CYDL	Dease Lake	N58°25.3	W130°01.9			6.47	6.76	7.04	7.32
CYEV	Inuvik (Mike Zubko)	N68°18.2	W133°29.0	11.04	11.60	12.17	12.73	13.29	13.84
CYFB	Iqaluit	N63°45.4	W068°33.3	8.75	9.14	9.53	9.92	10.31	10.69
CYFS	Ft. Simpson	N61°45.6	W121°14.2	7.48	7.81	8.14	8.46	8.79	9.11
СҮОЈ	High Level	N58°37.3	W117°09.9			6.47	6.71	6.95	7.19
CYPY	Ft Chipewyan	N58°46.0	W111°07.1				6.31	6.51	6.71
СҮОН	Watson Lake	N60°07.0	W128°49.3	6.67	6.98	7.30	7.61	7.93	8.24
CYSM	Ft Smith	N60°01.2	W111°57.7	6.45	6.68	6.91	7.14	7.37	7.60
CYVP	Kuujjuaq	N58°05.7	W068°25.3			6.45	6.71	6.97	7.23
CYVQ	Norman Wells	N65°16.9	W126°47.9	9.79	10.24	10.69	11.14	11.58	12.02
CYXY	Whitehorse Nielsen Intl	N60°42.6	W135°04.0	6.74	7.08	7.41	7.75	8.09	8.43

Blanks indicate no restrictions.

This table contains an annual listing of those airports for which Non Directional Beacon (NDB) approaches are prohibited due to the outdated Inertial Reference Units (IRU) Magnetic Variation tables causing magnetic heading errors of 6.28 degrees or more.

Magnetic Variation Table – Non-Directional Beacon Approach Mitigation List (CYYE thru PASX)

1

ICAO ID	Airport Name	Latitude	Longitude	Error in 2015 (deg)	Error in 2016 (deg)	Error in 2017 (deg)	Error in 2018 (deg)	Error in 2019 (deg)	Error in 2020 (deg)
СҮҮЕ	Ft Nelson	N58°50.2	W122°35.8		6.40	6.67	6.94	7.21	7.48
CYZF	Yellowknife	N62°27.8	W114°26.4	7.91	8.21	8.51	8.81	9.11	9.40
PABI	Allan Aaf	N63°59.7	W145°43.3	7.32	7.72	8.13	8.53	8.94	9.34
PAFB	Ladd Aaf	N64°50.2	W147°37.0	7.40	7.81	8.23	8.65	9.07	9.49
PAIL	Illiamna	N59°45.3	W154°55.1				6.29	6.59	6.90
PANI	Aniak	N61°34.9	W159°32.6					6.56	6.88
PAOM	Nome	N64°30.8	W165°26.7					6.41	6.74
PASX	Soldotna	N60°28.5	W151°02.4			6.46	6.79	7.12	7.45

Blanks indicate no restrictions.

This table contains an annual listing of those airports for which Non Directional Beacon (NDB) approaches are prohibited due to the outdated Inertial Reference Units (IRU) Magnetic Variation tables causing magnetic heading errors of 6.28 degrees or more.

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717 QRH Reference Data TBC

RD.10.2 April 15, 2016

Landing Reference Speeds (KIAS), VREF	1
Takeoff Brake Temperatures Advisory Information Recommended Maximum Takeoff Brake Temperatures (°C) Takeoff Flaps 5 to 12 Takeoff Flaps 13 to 17 Takeoff Flaps 18 to 20 Estimated Brake Cooling Time (Hours:Minutes) Wind Component Headwind Component (KTS) Crosswind Component (KTS)	2
Estimated Landing Distances (Feet), BR700-715A1-30/-715C1-30 Engines Dry Runway Flaps 40/EXT Good Reported Braking Action Flaps 40/EXT	3
Good To Medium Reported Braking Action Flaps 40/EXT Medium Reported Braking Action Flaps 40/EXT	4
Medium To Poor Reported Braking Action Flaps 40/EXT Poor Reported Braking Action Flaps 40/EXT	5

Landing Reference Speeds (KIAS), VREF

LDG	LDG	FLAP/SLAT VREF SPEEDS (KIAS)									
WT (1000 LB)	WT (1000 KG)	UP/RET	0/EXT	13/EXT	18/EXT	25/EXT	40/EXT				
64	29.0	152	118	111	111	111	111				
68	30.8	156	122	115	113	112	111				
72	32.7	161	126	118	117	115	112				
76	34.5	165	129	121	120	118	115				
80	36.3	170	132	124	123	121	118				
84	38.1	174	136	127	126	124	121				
88	39.9	178	139	130	129	127	124				
92	41.3	182	142	133	132	130	126				
96	43.5	186	145	136	135	133	129				
100	45.4	190	148	139	138	136	132				
104	47.2	193	151	142	140	138	134				
108	49.0	197	154	145	143	141	137				
112	50.8	201	157	147	146	144	140				
116	52.7	204	159	150	148	146	142				
120	54.5	208	162	152	151	149	144				

- Areas enclosed in heavy black lines represent speeds in excess of tire rating speed.
 Vapp is the greater of Vref +5 or Vref + wind additive (see note 3).
 Wind additive is 1/2 of the steady state wind greater than 20 knots or all of the gust increment above steady state value, whichever is greater (max 20 knots).
 If ATS is engaged for approach and landing, wind additives may be applied at Captain's discretion.
- discretion.

 5. If ATS is not engaged, or is planned to be disengaged prior to landing, the appropriate wind additives should be applied to Vref.

PD.10.1 **April 15, 2015**

Takeoff Brake Temperatures Advisory Information Recommended Maximum Takeoff Brake Temperatures (°C)

Takeoff Flaps 5 to 12

1

WEIGHT		PRE	ESS ALT & STAI	NDARD DAY TE	EMP	
(1000 LB)	SEA LEVEL	1000 FT	2000 FT	4000 FT	6000 FT	8000 FT
(1000 LB)	15°C	13°C	11°C	7°C	3°C	-1°C
80	250	250	250	250	250	240
85	250	250	250	250	240	230
90	240	250	240	230	220	210
95	230	230	220	210	200	190
100	220	210	200	190	180	160
105	200	190	180	170	150	140
110	180	170	160	150	130	110
114	160	150	140	130	100	80
118	140	130	120	100	80	60
121	130	120	110	90	60	60

Takeoff Flaps 13 to 17

WEIGHT		PRE	ESS ALT & STA	NDARD DAY TE	EMP	
(1000 LB)	SEA LEVEL	1000 FT	2000 FT	4000 FT	6000 FT	8000 FT
(1000 LB)	15°C	13°C	11°C	7°C	3°C	-1°C
80	250	250	250	250	250	250
85	250	250	250	250	250	240
90	250	250	250	240	230	220
95	240	240	240	230	220	200
100	230	230	220	210	200	180
105	210	210	200	190	180	160
110	200	190	180	170	150	130
114	180	170	170	150	130	110
118	170	160	150	130	110	90
121	150	140	130	110	90	70

Takeoff Flaps 18 to 20

WEIGHT		PRE	ESS ALT & STAI	NDARD DAY TE	EMP	
(1000 LB)	SEA LEVEL	1000 FT	2000 FT	4000 FT	6000 FT	8000 FT
(1000 LB)	15°C	13°C	11°C	7°C	3°C	-1°C
80	250	250	250	250	250	250
85	250	250	250	250	250	250
90	250	250	250	250	240	230
95	250	250	240	230	220	210
100	240	230	230	220	210	190
105	220	220	210	200	190	170
110	210	200	190	180	160	150
114	190	180	180	160	140	120
118	180	170	160	140	120	100
121	160	160	150	130	100	90

Temperature Corrections:

- 1. Above data is applicable for standard day ambient temperature and no tail wind. Apply following temperature corrections as needed:
 - Reduce recommended brake temperature 10°C for every 10°C higher ambient temperature than ISA temperature.
 Reduce recommended brake temperature 20°C for every 5 knot tail wind.
- The time to cool the brake on the ground to the recommended takeoff temperature is provided in the Estimated Brake Cooling Time table.

Estimated Brake Cooling Time (Hours:Minutes)

RECOMMENDED BRAKE TEMP		HOTTEST BRAKE TEMPERATURE (°C) (15 MINUTES AFTER THE AIRPLANE STOPPED WITH PARKING BRAKE SET										
(°C)	60											
60	0:00	0:27	0:48	1:06	1:20	1:33	1:44	1:54	2:03	2:11	2:19	
80		0:00	0:21	0:38	0:53	1:06	1:17	1:27	1:36	1:44	1:52	
100			0:00	0:17	0:32	0:45	0:56	1:06	1:15	1:23	1:31	
120				0:00	0:15	0:27	0:38	0:48	0:57	1:06	1:13	
140					0:00	0:13	0:24	0:34	0:43	0:51	0:59	
160						0:00	0:11	0:21	0:30	0:38	0:46	
180							0:00	0:10	0:19	0:27	0:35	
200								0:00	0:09	0:17	0:25	
220									0:00	0:08	0:16	
240										0:00	0:08	
260											0:00	

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Wind Component

Headwind Component (KTS)

DEG		REPORTED WIND SPEED (KTS)														
*	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
10	10	12	14	16	18	20	22	24	26	28	30	32	33	35	37	39
20	9	11	13	15	17	19	21	23	24	26	28	30	32	34	36	38
30	9	10	12	14	16	17	19	21	23	24	26	28	29	31	33	35
40	8	9	11	12	14	15	17	18	20	21	23	25	26	28	29	31
50	6	8	9	10	12	13	14	15	17	18	19	21	22	23	24	26
60	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
70	3	4	5	5	6	7	8	8	9	10	10	11	12	12	13	14
80	2	2	2	3	3	3	4	4	5	5	5	6	6	6	7	7
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Crosswind Component (KTS)

			_													
DEG		REPORTED WIND SPEED (KTS)														
*	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
10	2	2	2	3	3	3	4	4	5	5	5	6	6	6	7	7
20	3	4	5	5	6	7	8	8	9	10	10	11	12	12	13	14
30	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
40	6	8	9	10	12	13	14	15	17	18	19	21	22	23	24	26
50	8	9	11	12	14	15	17	18	20	21	23	25	26	28	29	31
60	9	10	12	14	16	17	19	21	23	24	26	28	29	31	33	35
70	9	11	13	15	17	19	21	23	24	26	28	30	32	34	36	38
80	10	12	14	16	18	20	22	24	26	28	30	32	33	35	37	39
90	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40

^{*} Wind direction, in degrees, off runway heading.

Example: **Solution:**

Headwind Component = 18 KTS Runway - 330° Wind Direction - 020° Crosswind Component = 21 KTS

Wind Speed - 28 KTS

TBC

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717 QRH

Dry Runway

J		٠.
Flaps	s 40/EX	T

AIRPORT PRESSURE ALTITUDE / TEMPERA			PERATURE			
LDG WT (1000 LB)	S.L.	2000 FT	4000 FT	6000 FT	8000 FT	10000 FT
(1000 LB)	STD=15°C	STD=11°C	STD=7°C	STD=3°C	$STD=-1^{\circ}C$	$STD = -5^{\circ}C$
60	3240	3350	3470	3580	3700	3810
70	3410	3520	3640	3750	3870	3980
80	3580	3700	3810	3930	4040	4160
90	3750	3870	3980	4100	4210	4330
100	3930	4040	4160	4270	4390	4500
110	4100	4210	4330	4440	4560	4670
120	4270	4390	4500	4620	4730	4850
130	4440	4560	4670	4790	4900	5020

Full Reverse Thrust (2 engines at max reverse thrust to 80 KIAS, then reverse idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet. All distances including corrections shown have been increased by 15%.

Corrections

2

Temperature

FEET PER °C		
BELOW standard day	-7	
ABOVE standard day	+26	

Valid from STD -20°C to STD +40°C

Slope

FEET PER	1% SLOPE
UPHILL	-35
DOWNHILL	+35

Valid from -2% downhill to +2% uphill

Wind

FEET PER KNOT		
HEADWIND	-12	
TAILWIND	+35	

Valid from -10 knots tailwind to +20 knots headwind

VREF

FEET PER KIAS		
ABOVE VREF	+23	

Valid from 1 knot to 20 knots above VREF

Auto Brakes

Auto Brakes MAX	+8%
Auto Brakes HIGH	+54%
Auto Brakes MED	+93%
Auto Brakes MIN	+135%

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Good Reported Braking Action

Flaps 40/EXT

AIRPORT PRESSURE ALTITUDE / TEMPERA			PERATURE			
LDG WT (1000 LB)	S.L.	2000 FT	4000 FT	6000 FT	8000 FT	10000 FT
(1000 LB)	STD=15°C	STD=11°C	STD=7°C	STD=3°C	$STD = -1^{\circ}C$	$STD = -5^{\circ}C$
60	4480	4710	4940	5170	5400	5630
70	4780	5010	5240	5470	5700	5930
80	5080	5310	5540	5770	6000	6230
90	5380	5610	5840	6070	6300	6530
100	5700	5930	6160	6390	6620	6850
110	6020	6250	6480	6710	6940	7170
120	6340	6570	6800	7030	7260	7490
130	6660	6890	7120	7350	7580	7810

Full Reverse Thrust (2 engines at max reverse thrust to 80 KIAS, then reverse idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet. All distances including corrections shown have been increased by 15%.

Corrections

Temperature

1	FEET PER °C		
1	BELOW standard day	-12	
	ABOVE standard day	+37	

Valid from STD -20°C to STD +40°C

Slope

FEET PER 1% SLOPE		
UPHILL	-127	
DOWNHILL	+138	

3

Valid from -2% downhill to +2% uphill

Wind

FEET PER KNOT		
HEADWIND	-23	
TAILWIND	+79	

Valid from -10 knots tailwind to +20 knots headwind

VREF

FEET PER KIAS		
ABOVE VREF	+35	

Valid from 1 knot to 20 knots above VREF

Auto Brakes

11400 2141105			
Auto Brakes MAX	+5%		
Auto Brakes HIGH	+14%		
Auto Brakes MED	+22%		
Auto Brakes MIN	+49%		

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Good To Medium Reported Braking Action

Flaps 40/EXT

AIRPORT PRESSURE ALTITUDE / TEMPERATURE						
LDG WT (1000 LB)	S.L.	2000 FT	4000 FT	6000 FT	8000 FT	10000 FT
(1000 LB)	STD=15°C	STD=11°C	STD=7°C	STD=3°C	STD=-1°C	$STD = -5^{\circ}C$
60	5130	5420	5720	6020	6320	6620
70	5480	5780	6080	6380	6680	6980
80	5840	6140	6440	6740	7040	7330
90	6200	6500	6790	7090	7390	7690
100	6580	6880	7180	7480	7780	8080
110	6970	7260	7560	7860	8160	8460
120	7350	7650	7950	8250	8550	8840
130	7730	8030	8330	8630	8930	9230

Full Reverse Thrust (2 engines at max reverse thrust to 80 KIAS, then reverse idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet. All distances including corrections shown have been increased by 15%.

Corrections

Temperature

FEET PER °C		
BELOW standard day	-13	
ABOVE standard day	+44	

Valid from STD -20°C to STD +40°C

Slope

FEET PER 1% SLOPE		
UPHILL	-213	
DOWNHILL	+259	

Valid from -2% downhill to +2% uphill

Wind

FEET PER KNOT		
HEADWIND	-32	
TAILWIND	+107	

Valid from -10 knots tailwind to +20 knots headwind

VREF

FEET PER KIAS		
ABOVE VREF	+38	

Valid from 1 knot to 20 knots above VREF

Auto Brakes

Auto Brakes MAX	+5%
Auto Brakes HIGH	+12%
Auto Brakes MED	+16%
Auto Brakes MIN	+30%

PD.10.6 **April 15, 2017**

Medium Reported Braking Action

Flaps 40/EXT

I DC WT	AIRPORT PRESSURE ALTITUDE / TEMPERATURE					
LDG WT (1000 LB)	S.L.	2000 FT	4000 FT	6000 FT	8000 FT	10000 FT
(1000 LB)	STD=15°C	STD=11°C	STD=7°C	STD=3°C	$STD = -1^{\circ}C$	$STD = -5^{\circ}C$
60	5770	6130	6500	6870	7240	7610
70	6180	6550	6920	7280	7650	8020
80	6590	6960	7330	7700	8070	8430
90	7010	7380	7740	8110	8480	8850
100	7460	7820	8190	8560	8930	9300
110	7910	8270	8640	9010	9380	9750
120	8350	8720	9090	9460	9830	10190
130	8800	9170	9540	9910	10270	10640

Full Reverse Thrust (2 engines at max reverse thrust to 80 KIAS, then reverse idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet. All distances including corrections shown have been increased by 15%.

Corrections

Temperature

FEET PER °C		
BELOW standard day	-14	
ABOVE standard day	+51	

Valid from STD -20°C to STD +40°C

Slope

FEET PER 1% SLOPE		
UPHILL	-299	
DOWNHILL	+380	

4

Valid from -2% downhill to +2% uphill

Wind

FEET PER KNOT		
HEADWIND	-40	
TAILWIND	+134	

Valid from -10 knots tailwind to +20 knots

VREF

FEET PER KIAS		
ABOVE VREF	+40	

717 QRH

Valid from 1 knot to 20 knots above VREF

Auto Brakes

Auto Brakes MAX	+4%
Auto Brakes HIGH	+10%
Auto Brakes MED	+10%
Auto Brakes MIN	+10%

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Medium To Poor Reported Braking Action Flaps 40/EXT

AIRPORT PRESSURE ALTITUDE /			ΓITUDE / TEMP	E / TEMPERATURE		
LDG WT (1000 LB)	S.L.	2000 FT	4000 FT	6000 FT	8000 FT	10000 FT
(1000 LB)	STD=15°C	STD=11°C	STD=7°C	STD=3°C	$STD = -1^{\circ}C$	$STD = -5^{\circ}C$
60	6780	7260	7740	8220	8710	9190
70	7240	7720	8210	8690	9170	9660
80	7700	8190	8670	9160	9640	10120
90	8170	8660	9140	9620	10100	10580
100	8690	9170	9650	10140	10580	11060
110	9210	9690	10200	10660	11060	11540
120	9720	10210	10750	11180	11540	++
130	10240	10730	11300	11700	++	++

⁺⁺ Landing distance exceeds 12000 feet.

Full Reverse Thrust (2 engines at max reverse thrust to 80 KIAS, then reverse idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet. All distances including corrections shown have been increased by 15%.

Corrections

Temperature

FEET I	PER °C
BELOW standard day	-18
ABOVE standard day	+60

Valid from STD -20°C to STD +40°C

Slope

_	
FEET PER	1% SLOPE
UPHILL	-506
DOWNHILL	+794

Valid from -2% downhill to +2% uphill

Wind

FEET PE	R KNOT
HEADWIND	-54
TAILWIND	+187

Valid from -10 knots tailwind to +20 knots headwind

VREF

FEET PER KIAS		
ABOVE VREF	+42	

Valid from 1 knot to 20 knots above VREF

Auto Brakes

Auto Brakes MAX	+4%
Auto Brakes HIGH	+9%
Auto Brakes MED	+9%
Auto Brakes MIN	+9%

PD.10.8 **April 15, 2017**

Poor Reported Braking Action

Flaps 40/EXT

AIRPORT PRESSURE ALTITUDE / TEMPER			PERATURE	ERATURE		
LDG WT (1000 LB)	S.L.	2000 FT	4000 FT	6000 FT	8000 FT	10000 FT
(1000 LB)	STD=15°C	STD=11°C	STD=7°C	STD=3°C	STD=-1°C	STD=-5°C
60	7780	8380	8970	9570	10170	10770
70	8300	8890	9490	10090	10690	11290
80	8810	9410	10010	10610	11210	11800
90	9330	9930	10530	11130	11720	++
100	9920	10520	11110	11720	++	++
110	10500	11100	11760	++	++	++
120	11090	11690	++	++	++	++
130	11680	++	++	++	++	++

⁺⁺ Landing distance exceeds 12000 feet.

Full Reverse Thrust (2 engines at max reverse thrust to 80 KIAS, then reverse idle to 60 KIAS, forward idle and stowed by 40 KIAS to stop), Standard Day, No Wind, Zero Slope, Maximum Manual Anti-Skid Braking, Air Run Distance is approximately 1500 feet. All distances including corrections shown have been increased by 15%.

Corrections

Temperature

	•	
FEET PER °C		
•	BELOW standard day	-21
	ABOVE standard day	+69

Valid from STD -20°C to STD +40°C

Slope

FEET PER 1% SLOPE		
UPHILL	-713	
DOWNHILL	+1280	

Valid from -2% downhill to +2% uphill

Wind

FEET PER KNOT		
HEADWIND	-67	
TAILWIND	+240	

Valid from -10 knots tailwind to +20 knots headwind

VREF

FEET PER KIAS		
ABOVE VREF	+44	

Valid from 1 knot to 20 knots above VREF

Auto Brakes

Auto Brakes MAX	+3%			
Auto Brakes HIGH	+8%			
Auto Brakes MED	+8%			
Auto Brakes MIN	+8%			

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ENGINE FAIL/SHUTDOWN IN FLIGHT	
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ENGINE(S) COMPRESSOR STALL/SURGE	
ENGOIL PRES LO	
ENGOIL TEMP HI	
ENGRPM HI	
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LEP.0.2

Highlights

TO: TBC

Concerning: Volume I, Quick Reference Handbook (QRH),

Revision 41, Dated April 15, 2017.

Highlights: Revised existing procedures to reflect changes in

amplified procedures in Volume II. Consult the Operating Procedures highlights pages for specific changes. Some pages are updated that were not revised; this occurs because the assemble process

has rearranged some of the contents of the

database.

TR Summary

Record:

Temporary Revisions 1-1 thru 1-127 have been incorporated, cancelled, or are not applicable to

your Volume I, QRH.

FAB Summary Record:

Record.

There are no active FCOM Advisory Bulletins.

Interim Procedure Summary Record:

All Interim Operating Procedures have been renumbered and integrated into the text of this manual. Please remove and discard all IOPs

published on pink paper.

Interim Procedures Effectivity follows:

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717-QRH-003, FMS__FAIL WITH INDEPENDENT OPERATION SHOWN ON BOTH MCDUs, Section

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717-QRH-004, "SPOILER FAULT", Section A.10.

MANUAL UPDATE INSTRUCTIONS

Please replace the pages in your Volume I, QRH with these updated pages.

Compare issued pages with LEP to assure Volume I, QRH is complete and correct.

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