

CESSNA 152

Quick Reference Handbook Version 1.0

ALL GREY SHADED AREAS
ARE MEMORY ITEMS

Normal Procedures

Pre-Flight Check	N-1
Cockpit	N-1
Empennage	N-1
Right Wing	N-1
Nose	N-2
Left Wing	N-2
Before Starting Engine	N-3
Starting Engine	N-3
Flooded Start	N-3
After Start	N-4
Taxi Checks	N-4
Before Takeoff	N-4
Line Up	N-5
Rolling Checks	N-5
After Takeoff	N-5
Enroute Climb	N-6
Top of Climb	N-6
Cruise	N-6
Top of Descent	N-6
Descent	N-7
Pre-Landing Checks	N-7
Final Checks	N-7
Baulked Landing	N-7
After Landing	N-8
Securing Aeroplane	N-8

Pre-Flight Check

COCKPIT		
1.	Control Wheel Lock	REMOVED
2.	Ignition Switch	OFF
3.	Master Switch	ON
4.	Fuel Quantity Indicators	CHECK QUANTITY
5.	Master Switch	OFF
6.	Fuel Shutoff Valve	ON
	EMPENNA	AGE
1.	Rudder Gust Lock	REMOVE
2.	Tail Tie-Down	DISCONNECT
3.	Control Surfaces	CHECK FREEDOM OF
		MOVEMENT & SECURITY
	RIGHT W	ING
1.	Aileron CHECK FREEDOM	OF MOVEMENT & SECURITY
2.	Wing Tie-Down	DISCONNECT
3.	Main wheel Tyre	CHECK PROPER INFLATION
4.	Fuel Drain	CHECK QUALITY
5.	Fuel Quantity	CHECK VISUALLY
6.	Fuel Filler Cap	SECURE

	NOSE			
1.	Engine Oil LevelCHECK NOT LESS THAN 4 QUARTS			
2.	Fuel StrainerDRAINED and CHECK CLOSED			
3.	Propeller And Spinner CHECK FOR NICKS & SECURITY			
4.	Carburettor Air FilterCHECK FOR RESTRICTIONS			
5.	Landing Light(s)CHECK CONDITION AND CLEANLINESS			
6.	Nose Wheel Strut & TyreCHECK PROPER INFLATION			
7.	Nose Tie-Down DISCONNECT			
8.	Static Source OpeningCHECK FOR STOPPAGE			
	LEFT WING			
1.	Main Wheel TyreCHECK PROPER INFLATION			
2.	Fuel Drain CHECK QUALITY			
3.	Fuel Quantity			
4.	Fuel Filler CapSECURE			
5.	Pitot Tube Cover REMOVE & CHECK FOR STOPPAGE			
6.	Stall Warning OpeningCHECK			
7.	Fuel Tank Vent OpeningCHECK FOR STOPPAGE			
8.	Wing tie down DISCONNECT			
9.	Aileron CHECK FREEDOM OF MOVEMENT & SECURITY			

Before Starting Engine

1.	Pre-flight Inspection	COMPLETE
2.	Flight Authorisation	COMPLETE
3.	M/R	CHECKED & SIGNED
4.	Passenger Briefing	COMPLETE
5.	Seats, Seat Belts, Shoulder Harness	esADJUST and LOCK
6.	Brakes	TEST and SET
7.	Circuit Breakers	CHECK IN
8.	Radios, Electrical Equipment	OFF
9.	Rotating Beacon	ON
10.	. Fuel Shutoff Valve	ON
	Starting Eng	ine
1.	PrimeAS RE	QUIRED (3 Cold, None Hot)
2.	Carburettor Heat	COLD
3.	Throttle OPEN ½ INCH	(CLOSED if engine is warm)
4.	Mixture	RICH
5.	Propeller Area	CLEAR
6.	Master Switch	ON
7.	Ignition SwitchSTART	(release when engine starts)
8.	ThrottleAl	DJUST for 1000 RPM or less
9.	Oil Pressure	CHECK
	Flooded Sta	
1.	Mixture	
2.	Throttle	
3.	Starter	
		SEVERAL REVOLUTIONS

Repeat starting procedure without any additional priming.

After Start

1.	Radios	ON / SET / CHECKED
2.	Intercom System	CHECKED
3.	Lights	TAXI ON
4.	Flaps	RETRACTED
5.	Mixture	LEANED
	Taxi Cl	necks
1.	Brakes	CHECKED
2.	Flight Instruments	CHECKED
	Before T	akeoff
1.	Parking Brake	SET
2.	Cabin Doors	CLOSED and LATCHED
3.	Flight Controls	FREE & CORRECT
4.	Flight Instruments	CHECK and SET
5.	Fuel Shutoff Valve	CHECK ON
6.	Mixture	RICH (below 3000 feet)
7.	Elevator Trim	SET FOR TAKE OFF
8.	Throttle	1700 RPM
9.	Magnetos	CHECK
	M drop should not exceed 125 R erential between magnetos.	PM on either magneto or 50 RPM
10.	Carburettor Heat	CHECK (for RPM drop)
11.	Suction Gauge	CHECK
12.	Engine Instruments and Ammet	erCHECK
13.	Throttle	CHECK SLOW IDLE
14.	Throttle	RESET 1000 RPM

15.	Throttle Friction Lock	ADJUSTED
16.	Radios Navaids and Avionics	SET / CHECKED
17.	Wing Flaps	SET FOR TAKE OFF A/R
18.	Departure Brief	COMPLETE
19.	Takeoff Safety Brief	COMPLETE
	Line	· Up
1.	Pitot Heat	A/R
2.	Instruments	CHECK ALIGNMENT
3.	Switches	LIGHTS/PUMPS A/R
4.	Transponder/Trim	ALT/TAKE OFF
5.	Altimeter	WITHIN TOLERANCE
	Rolling	Checks
1.	Power S1	ATIC BETWEEN 2280-2380 RPM
2.	EngineOIL	TEMP AND PRESSURE GREEN
3.	Airspeed	ALIVE
	After T	akeoff
1.	Gear	UP
2.	Flaps	RETRACTED
3.	Power	SET
4.	Temperature and Pressure Ind	icatorsCHECKED
5.	Switches	OFF
6.	Mixture	LEANED A/R
7.	Centreline	CHECKED

Enroute Climb

1.	Airspeed	70 – 80 KIAS
2.	Throttle	FULL OPEN
3.	Mixture	RICH below 3000 feet,
		LEANED above 3000 feet
	Top of	Climb
1.	Fuel Log	COMPLETE / CORRECT TANK
2.	Mixture	LEANED (AS PER POH)
3.	QNH	AREA
4.	DI/Compass	ALIGNED
5.	Cowl Flaps	AS REQUIRED
6.	Aids/Audio	TUNED/IDENTIFIED/TESTED
7.	Radios	SET/CHECKED
Cruise		
	Crui	se
1.		se 1900 – 2550 RPM
1. 2.	Power	
	Power	1900 – 2550 RPM
2.	Power	1900 – 2550 RPM ADJUST LEAN
2.	Power Elevator Trim Mixture Top of D	1900 – 2550 RPM ADJUST LEAN
2.	Power Elevator Trim Mixture Top of D Fuel Log	1900 – 2550 RPM ADJUST LEAN
 3. 1. 	Power Elevator Trim Mixture Top of D Fuel Log Mixture	1900 – 2550 RPMADJUSTLEAN escentCOMPLETE
 2. 3. 1. 2. 	Power Elevator Trim Mixture Top of D Fuel Log Mixture QNH	
 2. 3. 1. 2. 3. 	Power	
 3. 1. 2. 3. 4. 	Power Elevator Trim Mixture Top of D Fuel Log Mixture QNH DI/Compass Cowl Flaps	

Descent

		escent	
1.		FULL HEAT A/R	
2.	Power	AS DESIRED	
3.		ADJUST for smooth operation FULL RICH for idle power	
	Pre-Lan	ding Checks	
1.	Brakes	PRESSURE CHECKED & OFF	
2.	Undercarriage	DOWN AND LOCKED	
3.	Mixture	RICH	
4.	Fuel	ON & QUANTITY CHECKED	
5.	Instruments	ALIGNED/WITHIN TOLERANCES	
6.	Switches	LIGHTS/PUMPS A/R	
7.	Hatches & Harnesses	SECURE	
8.	Pilot Activated Lighting	A/R	
	Final Checks		
1.		I Checks	
 2. 	Pitch		
	Pitch Undercarriage	A/R	
2.	Pitch Undercarriage	A/R DOWN AND LOCKED (3 GREENS)	
2.	Pitch Undercarriage Flaps Carburettor Heat	A/R DOWN AND LOCKED (3 GREENS) A/R	
 3. 4. 	Pitch Undercarriage Flaps Carburettor Heat Check Windsock	A/RDOWN AND LOCKED (3 GREENS)A/R	
 3. 4. 5. 	Pitch Undercarriage Flaps Carburettor Heat Check Windsock Clearance Baulke	A/RDOWN AND LOCKED (3 GREENS)A/RCOLDCHECKEDDOBTAINED	
 3. 4. 5. 	Pitch Undercarriage Flaps Carburettor Heat Check Windsock Clearance Baulke	A/RDOWN AND LOCKED (3 GREENS)A/RCOLDCHECKEDDOBTAINED	
 3. 4. 6. 	Pitch	A/RDOWN AND LOCKED (3 GREENS)A/RCOLDCHECKEDDOBTAINED	
 2. 3. 4. 5. 6. 	Pitch	A/RDOWN AND LOCKED (3 GREENS)A/RCOLDCHECKEDOBTAINED ed LandingFULL OPEN	
 2. 3. 4. 6. 1. 2. 	Pitch		

After Landing

1.	Carburettor Heat	COLD
2.	Wing Flaps	UP
3.	Landing Light & Strobes	OFF
4.	Taxi Light	ON
5.	Transponder	STBY
6.	Trim	NEUTRAL
7.	Mixture	LEANED
	Securing Aerop	lane
1.	Throttle	1000 RPM
2.	Parking Brake	SET
3.	Electrical EquipmentOFF	(BEACON REMAINS ON)
4.	Radios and Avionics	OFF
5.	Magnetos	CHECKED
6.	MixtureIE	DLE CUT-OFF (pull full out)
7.	Ignition SwitchOFF	ONCE ENGINE STOPPED
		& KEYS REMOVED
8.	Master Switch	OFF
9.	Control Lock	INSTALL
10.	Tie Downs	SECURE

Emergency Procedures

Airspeeds for Emergency Operation	E-1
Engine Failures	E-1
Engine Failure During Take Off Roll	E-1
Engine Failure Immediately After Take Off	E-1
Engine Failure During Flight (Restart Procedures)	. E-2
Forced Landings	E-2
Emergency Landing Without Engine Power	. E-2
Precautionary Landing With Engine Power	. E-3
Ditching	E-3
Fires	E-4
During Start On Ground	. E-4
Engine Fire In Flight	E-5
Electrical Fire In Flight	E-5
Cabin Fire	E-6
Wing Fire	E-6
Landing With A Flat Main Tyre	E-6
Electrical Power Supply System Malfunctions	. E-7

Airspeeds for Emergency Operation

1.	Engine Failure After Take off60 KIAS
2.	Manoeuvring Speed at 1670 lbs104 KIAS
	1500 lbs
	1350 lbs93 KIAS
3.	Maximum Glide60 KIAS
4.	Precautionary Landing With Engine Power55 KIAS
5.	Landing Without Engine Power Wing flaps up 65 KIAS
	Wing flaps down 60 KIAS

Engine Failures

	ENGINE FAILURE	DURING TAKE OFF ROLL
1.	Throttle	IDLE
2.	Brakes	APPLY
3.	Wing Flaps	RETRACT
4.	Mixture	IDLE CUT-OFF
5.	Ignition Switch	OFF
6.	Master Switch	OFF
	ENGINE FAILURE IMI	MEDIATELY AFTER TAKE OFF
1.	Airspeed	65 KIAS
2.	Mixture	IDLE CUT-OFF
3.	Fuel Shutoff valve	OFF
4.	Ignition Switch	OFF
5.	Wing Flaps	AS REQ
6.	Master Switch	OFF
		DURING FLIGHT (RESTART OCEDURES)
1.	Airspeed	65 KIAS
2.	Carburettor Heat	ON
3.	Primer	IN and LOCKED
4.	Fuel Shutoff Valve	ON
5.	Mixture	RICH
6.	Ignition Switch	BOTH (or Start if propeller stopped)

Forced Landings

	EMERGENCY LANDING WITHOUT ENGINE POV	VER
1.	. Airspeed	
2.	. MixtureIDLE	CUT-OFF
3.	Fuel Shutoff valve	OFF
4.	. Ignition Switch	OFF
5.	. Wing Flaps AS REQUIRED (30° recon	nmended)
6.	. Master Switch	OFF
7.	DoorsUNLATCH PRIOR TO TOUC	CHDOWN
8.	. TouchdownSLIGHTLY T	AIL LOW
9.	BrakesAPPLY	HEAVILY
	PRECAUTIONARY LANDING WITH ENGINE PO	WER
1.	. Airspeed	60 KIAS
2.	\A/' = 1	
	. Wing Flaps	
		10° .Y OVER,
not	Selected FieldFL oting terrain and obstructions, then retract flaps upon reach ltitude and airspeed	10° .Y OVER, ing a safe
not	Selected FieldFL oting terrain and obstructions, then retract flaps upon reach ltitude and airspeed Radio and Electrical Switches	10° .Y OVER, ing a safe
not alti	Selected Field	10° Y OVER, ing a safe OFF approach)
not alti	Selected Field	10° LY OVER, ing a safeOFF approach)55 KIAS
not altitude.	Selected Field	10° Y OVER, ing a safe OFF approach) 55 KIAS
not altitude. 4. 5. 6.	Selected Field	10° Y OVER, ing a safe OFF approach)55 KIASOFF CHDOWN

11. BrakesAPPLY HEAVILY

DITCHING

1.	Radioon 121.5 MHz, giving location and transponder is installed	
2.	Heavy objects	SECURE OR JETTISON
3.	ApproachHigh Winds, He	
4.	Wing Flaps	30°
5.	PowerESTABLISH 300 F	T/MIN DESCENT AT 55 KIAS
6.	Cabin Doors	UNLATCH
7.	TouchdownLEVEL ATTITU	DE AT 300 FT/MIN DESCENT
8.	FaceCUSHION	at touchdown with folded coat
9.	AeroplaneE	/ACUATE through cabin doors
	necessary, open windows and flood ors can be opened	cabin to equalise pressure so
10	Life Vests and Raft	INFLATE

Fires

DURING START ON GROUND

1. CrankingCONTINUE,
to get a start which would suck the flames and accumulated fuel
through the carburettor and into the engine
If engine starts
1. Power 1700 RPM for a few minutes
2. Engine SHUTDOWN and inspect for damage
If engine fails to start:
1. ThrottleFULL OPEN
2. MixtureIDLE CUT OFF
3. Cranking CONTINUE in an effort to obtain a start
4. Fire extinguisherOBTAIN
5. EngineSECURE
6. Master SwitchOFF
7. Ignition SwitchOFF
8. Fuel Shut Off ValveOFF
9. Fire EXTINGUISH
using fire extinguishers, wool blanket, or dirt
10. Fire damageINSPECT,
repair damage or replace damaged components or wiring before
conducting another flight

1. MixtureIDLE CUT-OF		
2. Fuel Shutoff ValveOF		
3. Master SwitchOF		
4. Cabin Heat and Air OFF (except wing root vents		
5. Airspeed85 KIA		
If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture.		
6. Forced LandingEXECUT		
(as described in Emergency Landing Without Engine Power)		
ELECTRICAL FIRE IN FLIGHT		
1. Master SwitchOF		
2. All Other SwitchesOFF (except ignition switch		
3. Vents / Cabin Air / HeatCLOSE		
o. Vonto / Cabin / Air / Hoat CLOCE		
4. Fire Extinguisher		
4. Fire Extinguisher ACTIVAT		
WARNING After discharging an extinguisher within a closed cabin, ventilate cabin If fire appears out and electrical power is necessary for continuation of the conti		
WARNING After discharging an extinguisher within a closed cabin, ventilate cabin ACTIVAT		
WARNING After discharging an extinguisher within a closed cabin, ventilate cabin If fire appears out and electrical power is necessary for continuation of flight:		

ENGINE FIRE IN FLIGHT

4. Vents / Cabin Air / HeatOPEN

when it is ascertained that fire is completely extinguished

After discharging an extinguisher within a closed cabin, ventilate the cabin

Land the aeroplane as soon as possible to inspect for damage

	WING FIRE	
1.	Navigational Light Switch	OFF
2.	Strobe Light Switch	OFF
3.	Pitot Heat Switch	OFF

Abnormal Procedures

Icing	A-1
Landing With A Flat Main Tyre	A-1
Landing Without Elevator Control	A-2
Rough Engine Operation Or Loss Of Power	A-2
Carburettor Icing	A-2
Spark Plug Fouling	A-2
Magneto Malfunction	A-3
Low Oil Pressure	A-3
Electrical Power Supply System Malfunction	A-3

Icing

Pitot Heat Switch ON (if installed) 1 Turn back or change altitude to obtain an outside air temperature that is less conductive to icing. 2 Cabin Heat ControlFULL OUT ThrottleOPEN 3. Watch for signs of carburettor air filter ice and apply carburettor heat as required. Plan landing at nearest airport. With rapid ice build-up, select a suitable 'off airport' landing site. Mixture.....LEAN FOR MAX RPM 4. Wing Flaps......RETRACTED 5. Left Window.....OPEN. 6 Scrape ice from windshield if practical Land approach using forward slip for improved visibility. Approach at 65 to 75 KIAS depending on amount of ice accumulation. Perform a landing in level attitude. Landing With A Flat Main Tyre

1.	Wing Flaps	AS DESIRED
2.	Approach	NORMAL
3.	Touchdown	GOOD TYRE FIRST,
	hold aeroplane off flat tyre as long as	possible with aileron control

Landing Without Elevator Control

1.	Trim	SET
2.	Airspeed	55 KIAS
3.	Flaps	20°
4.	Power	ADJUST,
	use to control gli	de angle, do not change elevator trim control
	Rough Eng	ine Operation Or Loss Of Power
		CARBURETTOR ICING
1.	Throttle	FULL
2.	Carburettor Heat	KnobPULL FULL OUT
3.	Mixture	LEAN for max RPM/as desired
		NOTE
	heat in cruis	require the continued use of carburettor e flight, use the minimum amount of heat prevent ice from forming.
		SPARK PLUG FOULING
1.	Ignition Switch	TURN from BOTH to L or R

If this does not solve the problem, land at the nearest airport for repairs using the BOTH position of the ignition switch unless extreme roughness dictates the use of a single ignition position.

3. Mixture......RICH

2. Mixture.....LEAN FOR CRUISE

If the problem persists:

	MAGNETO MALFUNCTION						
1. 2.	Ignition SwitchTURN from BOTH to L or R MixtureRICH						
Laı	nd at nearest airport.						
	LOW OIL PRESSURE						
1.	Oil Pressure Gauge CHECK						
If c	oil temperature rises, engine failure may be imminent.						
2.	PowerREDUCE						
Laı	nd immediately.						
	Electrical Power Supply System Malfunctions						
Am	nmeter Shows Excessive Rate Of Charge (Full Scale Deflection)						
 1. 2. 3. 4. 	AlternatorOFF Alternator Circuit BreakerPULL Nonessential Electrical EquipmentOFF FlightTERMINATE as soon as practical						
	w-Voltage Light Illuminates During Flight (Ammeter Indicates scharge)						
1.	RadiosOFF						
2.	Alternator Circuit BreakerCHECK IN						
3.	Master Switch OFF (both sides)						
4.	Master Switch ON						
5.	Low-Voltage Light CHECK OFF						
6.	Radios ON						

If Ic	ow-voltage light illuminates agair	n:
7.	Alternator	OFF
8.	Nonessential Radio and Electri	cal EquipmentOFF
9.	Flight	. TERMINATE as soon as practical

Supplemental Information

Passenger Brief	. S-1
Takeoff Safety Brief	. S-1
Departure And Approach	. S-1
Sample Passenger Brief	. S-2
Standard Flow Procedure	. S -3
Aircraft Summary	. S-4
Cruise Performance	. S-5

Passenger Brief

- · No smoking in aircraft
- · Proper use and adjustment of seat belts
- Location and proper operation of emergency exits
- Location of life jackets, first aid kits and fire extinguishers, and if required, survival kits and life rafts.
- Requirement of a passenger occupying a control seat, not to interfere with the controls during the flight
- Operation of ventilation system
- Proper stowage of passengers' carry on items during critical phases of flight
- · Seat backs must be upright for takeoff and landing
- Mobile phones and electronic devices must be off at all times

Takeoff Safety Brief

- If there is an engine failure, fire or abnormality whilst on the runway I will close the throttle and brake as required
- If there is an engine failure or major abnormality shortly after take-off with sufficient runway or overrun remaining, I will lower the nose, select full flap, land and brake as required
- If the engine fails with insufficient runway or overrun, I will lower the nose, maintain (...) knots (best glide speed), select a suitable field 30 degrees either side of the nose, extend flaps as required and land.

I will only turn back to the runway if I am at 1000 feet AGL or on the downwind leg

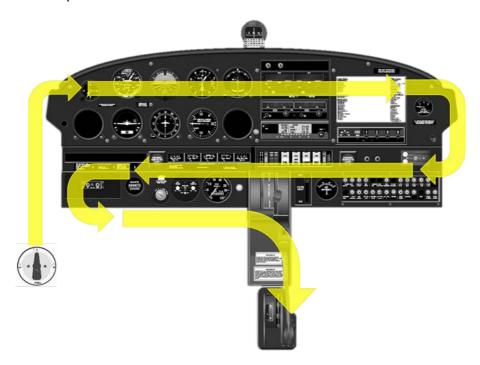
Departure and Approach

- Charts
- Terrain
- Weather
- Operational Considerations
- Any additional items you deem are threats

Sample Passenger Brief
"Welcome aboard your flight, my name is your
pilot. Today you'll be flying in a
Our airplane hasdoors. You can close the door
byif you need to open the door, such as in the
unlikely event of an emergency, you can open the door byTo adjust your seat, there will be a lever
underneath the seat.
Each seat in the airplane is equipped with an adjustable seatbelt. Fasten your seatbelt by inserting the clasp into the buckle. Pull the shoulder harness over your shoulder and clip it on to the clasp. You can adjust the seatbelt at any time by pulling the strap. You can undo your seatbelt by lifting the flap. Please ensure that you wear your seatbelt throughout the flight. Please ensure that all bags or loose items are either placed on the rear seat or in the baggage compartment and secured. You can adjust the Ventilation Outlets and Controls by
Please do not touch any part of the dashboard or controls and please keep your feet away from the pedals. Please note that smoking on board the airplane is not permitted at any time.
In the unlikely event of an emergency, please exit the airplane and leave any luggage behind. We will meet at the rear of the airplane." Where applicable – show use: Lift Vest Lift Raft ELT Oxygen
"Our destination for today's flight is and our
Estimated Time of Arrival isThe weather for our
flight today is expected to be Please sit back, relax and enjoy your flight "
Please Sit Dack relax and enjoy your flight "

Standard Flow Procedure

Below is an illustration of the standardised flow employed for *do and check* operations.



Abnormal and emergency procedures are conducted as a *check and do system*.

Aircraft Summary

For full details refer to the aircraft Flight Manual and/or the Pilot's Operating Handbook.

1.	EngineLycoming O-235-L2C 110 HP
2.	Oil capacity 6 Quarts maximum
3.	Total capacity (long range tanks)147 litres
4.	Useable fuel (long range tanks)142 litres
5.	Fuel to tabs (and full standard tanks)99 litres
6.	Useable fuel (tabs and standard tanks) 93 litres
7.	Best angle of climb 55 KIAS
8.	Best rate of climb
9.	Cruise climb
10.	Maximum demonstrated crosswind 12 KNOTS
11.	Maximum flap extension speed
12.	Never exceed speed

SECTION 5 PERFORMANCE

CESSNA MODEL 152

CRUISE PERFORMANCE

CONDITIONS:

1670 Pounds

Recommended Lean Mixture (See Section 4, Cruise)

NOTE

Cruise speeds are shown for an airplane equipped with speed fairings which increase the speeds by approximately two knots.

PRESSURE ALTITUDE	RPM	20°C BELOW STANDARD TEMP		STANDARD TEMPERATURE			20°C ABOVE STANDARD TEMP			
FT		% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2000	2400 2300 2200 2100 2000	71 62 55 49	97 92 87 81	5.7 5.1 4.5 4.1	75 66 59 53 47	101 96 91 86 80	6.1 5.4 4.8 4.3 3.9	70 63 56 51 46	101 95 90 85 79	5.7 5.1 4.6 4.2 3.8
4000 	2450 2400 2300 2200 2100 2000	76 67 60 53 48	102 96 91 86 81	6.1 5.4 4.8 4.4 3.9	75 71 63 56 51 46	103 101 95 90 85 80	6.1 5.7 5.1 4.6 4.2 3.8	70 67 60 54 49 45	102 100 95 89 84 78	5.7 5.4 4.9 4.4 4.0 3.7
6000	2500 2400 2300 2200 2100 2000	72 64 57 51 46	101 96 90 85 80	5.8 5.2 4.6 4.2 3.8	75 67 60 54 49 45	105 100 95 89 84 79	6.1 5.4 4.9 4.4 4.0 3.7	71 64 57 52 48 44	104 99 94 88 83 77	5.7 5.2 4.7 4.3 3.9 3.6
8000	2550 2500 2400 2300 2200 2100	76 68 61 55 49	105 100 95 90 84	6.2 5.5 5.0 4.5 4.1	75 71 64 58 52 48	107 104 99 94 89 83	6.1 5.8 5.2 4.7 4.3 3.9	71 67 61 55 51 46	106 103 98 93 87 82	5.7 5.4 4.9 4.5 4.2 3.8
10,000	2500 2400 2300 2200 2100	72 65 58 53 48	105 99 94 89 83	5.8 5.3 4.7 4.3 4.0	68 61 56 51 46	103 98 93 88 82	5.5 5.0 4.5 4.2 3.9	64 58 53 49 45	103 97 92 86 81	5.2 4.8 4.4 4.0 3.8
12,000	2450 2400 2300 2200 2100	65 62 56 51 47	101 99 93 88 82	5.3 5.0 4.6 4.2 3.9	62 59 54 49 45	100 97 92 87 81	5.0 4.8 4.4 4.1 3.8	59 56 52 48 44	99 96 91 85 79	4.8 4.6 4.3 4.0 3.7

Figure 5-7. Cruise Performance

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