SINGLE RED LINE (SRL) SYSTEM FAILURE
1 SRL Switches & Circuit BreakersCHECK
If condition cannot be corrected:
2 SRL SwitchOFF
3 EGTMONITOR
4 Land As Soon As Practical
FUEL PRESSURE DROP
With engine malfunction:
1 Condition Lever (affected engine)EMERGENCY
STOP
2 Main Fuel Valve Switch
(affected side)CLOSED
3 Engine Shutdown
(affected engine)ACCOMPLISH
4 Fuel Pressure (operating engine)CHECK
TIP AUTO FUEL TRANSFER FAILURE - TIP MANUAL
1 Fuel Transfer Switch
(for tank not transferring)TIP MANUAL
2 Fuel Quantity IndicatorsMONITOR
3 Tip Tank Quantity400 LB MAXIMUM
EACH AT LANDING
4 Fuel Unbalance150 LB MAXIMUM
AT LANDING

OUTER AUTO FUEL TRANSFER FAILURE - OUTER MANUAL		
1 Fuel Transfer SwitchesBOTH OFF		
2 Outer Pump Manual SwitchMAN		
3 Fuel Quantity IndicatorsMONITOR		
4 Fuel Unbalance150 LB MAXIMUM		
AT LANDING		
5 LH and RH Outer Fuel		
Empty LightsILLUMINATE		
6 Outer Pump Manual SwitchOFF		
OUTER FUEL TANK TRANSFER PUMP FAILURE		
(EXCEPT S/N 700SA)		
In Auto mode:		
1 Fuel Transfer Switch		
(defective side)OFF		
If annunciator remains Illuminated:		
2 Fuel Transfer Control Circuit		
Breaker (defective side)PULL		
In Manual mode:		
1 Outer Pump SwitchOFF		
2 Fuel Transfer Control Circuit		
Breaker (defective side)PULL		
3 Outer Pump SwitchMAN		
HEATED WINDSHIELD OVER TEMP ILLUMINATED		
1 Windshield Heat Low Switch		

(faulty side).....OFF

TRIM AILERON TAB FAIL	.URE
1 Trim Aileron Select Switch	LH OR RH
2 Trim Aileron	AS REQUIRED
TRIM AILERON TAB RUNA	AWAY
1 Trim Aileron Select SwitchS	ELECT ONE SIDE
If runaway continues:	
2 Trim Aileron Select Switch	SELECT
	OTHER SIDE
STATIC SYSTEM FAILU	IRE
1 Static Source Select Valve	AI TERNATE
P T/B PWR FAIL ILLUMIN	
P T/B PWR FAIL ILLUMIN S/N 1518 and above	
	ATED
S/N 1518 and above	ATEDVISIBLE
S/N 1518 and above 1 Indicator Warning Flag	ATEDVISIBLE
S/N 1518 and above 1 Indicator Warning Flag 2 Turn and Bank Circuit Breaker	ATEDVISIBLE
S/N 1518 and above 1 Indicator Warning Flag 2 Turn and Bank Circuit Breaker	ATEDVISIBLEPULLUSE
S/N 1518 and above 1 Indicator Warning Flag 2 Turn and Bank Circuit Breaker 3 Copilot Turn and Bank	ATEDVISIBLEPULLUSE

2 Turn and Bank Circuit Breaker.....PULL

NO FLAP APPROACH AND LANDING Descent: Cabin Altitude.....SET Fuel Transfer Control Switches.....TIP MANUAL OR OFF Altimeters.....SET Windshield Defog......AS REQUIRED Ignition Switches......AS REQUIRED Anti-ice/De-ice.....AS REQUIRED Taxi Lights.....AS REQUIRED Approach: 8 Landing Data......COMPUTED (ADD 30% TO LANDING DISTANCE) 9 Fuel Quantity/Balance.....CHECK - IN LIMITS 10 Synchrophaser.....OFF 11 Differential Pressure.....ZERO 12 Condition Levers......TAKEOFF LAND 13 Power.....AS REQUIRED 14 Airspeed150 KCAS MINIMUM 15 Cabin Sign.....ON 16 Anti-ice System.....AS REQUIRED 17 Landing Light......AS REQUIRED (BELOW 175 KCAS)

Refore	landing:
DCIUIC	ianunny.

18	Landing Gear	DOWN	
		(BELOW 175 KCAS)	
19	Airspeed	140 KCAS MINIMUM	
20	Brakes	CHECK	
21	Ignition Switches	AS REQUIRED	
22	Wing De-ice	OFF	
23	Autopilot/Yaw Damper	OFF	
	Final approach (landing assured):		
24	Airspeed	1.25Vs	
		(115 KCAS MINIMUM)	

Weight	1.25V _S (115KCAS MINIMUM)
11,025	129
10,500	127
10,000	123
9,500	119
9,000	116

EMERGENCY EXIT DOOR OPERATION

Manual Pressure Control Valve......FULL DECREASE
 When cabin depressurized:
 Handle Access Cover......PUSH IN
 Emergency Exit Door Handle.....PULL, THEN LIFT DOOR UP

AND INWARD

	INADVERTENT ICING	
1	Anti-ice (except engine)	ON
2	Wing De-ice	ON
3	Ignition Switches	CONT OR ON
4	LH Engine Intake Anti-ice	ON
	When proper operation of the assured:	he LH engine is
5	RH Engine Intake Anti-ice	ON
	When proper operation of b assured:	oth engines is
6	Ignition Switches	CONT OR ON,
		OBSERVE LIMITS
	SEVERE ICING EN	COUNTER
1	SEVERE ICING EN	
1 2		REQUEST
	Priority Handling	REQUEST
2	Priority HandlingAbrupt Maneuvering	REQUEST AVOID HOLD
2	Priority Handling Abrupt Maneuvering Control Wheel	REQUESTAVOIDHOLDDISENGAGE
2 3 4	Priority Handling Abrupt Maneuvering Control Wheel Autopilot	REQUESTAVOIDHOLDDISENGAGE
2 3 4	Priority Handling Abrupt Maneuvering Control Wheel Autopilot	REQUESTAVOIDHOLDDISENGAGENCREASE
2 3 4	Priority Handling Abrupt Maneuvering Control Wheel Autopilot	REQUESTAVOIDHOLDDISENGAGEINCREASE (180 KIAS MINIMUM IN CRUISE)
2 3 4 5	Priority Handling	REQUESTAVOIDHOLDDISENGAGEINCREASE (180 KIAS MINIMUM IN CRUISE)
2 3 4 5	Priority Handling	REQUESTAVOIDHOLDDISENGAGEINCREASE (180 KIAS MINIMUM IN CRUISE)MAINTAIN OR INCREASE

		AFM Page
	SINGLE RED LINE (SRL) SYSTEM FAILURE	4-1
	A failure of the SRL System may be indicated by one or more of the following indications: (1) An SRL FAIL annunciator illumination indicates loss of power to the system, loss of signal to the computer, loss of computer output signal, or the difference between the compensated EGT and SRL value is less than 15° C. (2) A sudden change in EGT of 20° C or more with no corresponding change in other engine parameters. (3) An erratic or fluctuating EGT indication.	4-1
	In the event of SRL failure, DO NOT reposition power levers until engine affected by the failure is positively identified.	4-1
	If on ground, abort takeofff and repair system prior to flight.	
	CAUTION	
	DO NOT ADVANCE THE POWER LEVER ON AN ENGINE SUSPECTED OF SRL FAILURE BEYOND THE LAST KNOWN POSITION OF SAFE OPERATION.	4-1
1	SRL Switches & Circuit BreakersCHECK Verify that the SRL switches and circuit breakers are engaged or reset as necessary and observe EGT indication.	4-1
2	If condition cannot be corrected: SRL SwitchOFF EGTMONITOR If engines are reasonably matched in torque, fuel flow and	4-1
	EGT, the unaffected engine may be used as a reference for setting power on the affected engine.	
	If uncertain about power setting, retard the power lever and follow the EGT schedule on the decal/face of the OAT gage.	4-1
	For any OAT, the first two digits of the limiting EGT are noted on the face of the gage opposite the temperature.	
4	Land As Soon As Practical	4-1

- 3 Tip Tank Quantity......400 LB MAXIMUM 4-3 **EACH AT LANDING**
- 4 Fuel Unbalance......150 LB MAXIMUM 4-3 AT LANDING

NOTE

When the Fuel Transfer Switch is in the TIP MANUAL 4-3 position, only the fuel in the tip tank will transfer to the main tank. Fuel cannot be transferred from either the left or right outer tank with the Fuel Transfer Switch in the AUTO position unless both tips can be emptied.

	OUTER AUTO FUEL TRANSFER FAILURE - OUTER MANUAL	4-3
	Fuel is not transferring from an outer tank to the main tank with the transfer switch in AUTO position	
1	Fuel Transfer SwitchesBOTH OFF	4-3
2	Outer Pump Manual SwitchMAN	4-3
	NOTE	
	Failure to position the Fuel Transfer Switch to OFF will result in fuel not being pumped from the outer tanks.	4-3
3 4	Fuel Quantity IndicatorsMONITOR Fuel Unbalance150 LB MAXIMUM AT LANDING	4-3 4-3
5	LH and RH Outer Fuel	
Ŭ	Empty LightsILLUMINATE	4-3
6	Outer Pump Manual SwitchOFF	4-3
	NOTE	
	If sufficient usable fuel remains in one of the outer tanks, it may be used by disengaging the FUEL TRANSFER CONT circuit breaker for the empty tank and placing the Outer Pump Switch to MAN.	4-3
	CAUTION	
	FAILURE TO DISENGAGE THE FUEL TRANSFER CONT CIRCUIT BREAKER FOR THE EMPTY TANK MAY RESULT IN DAMAGE TO THE TRANSFER PUMP.	4-3
Οl	JTER FUEL TANK TRANSFER PUMP FAILURE (EXCEPT S/N 700SA)	4
	LH or RH Outer Fuel Empty Annunciator Illuminates with Fuel Quantity Indicator showing fuel remaining in tank:	4-4
	In Auto mode:	4-4
1	Fuel Transfer Switch	
	(defective side)OFF	4-4 4-4
2	If annunciator remains Illuminated: Fuel Transfer Control Circuit	4-4
_	Breaker (defective side)PULL	4-4
	In Manual mode:	4-4
1	Outer Pump SwitchOFF	4-4
2	Fuel Transfer Control Circuit	
	Breaker (defective side)PULL	4-4
3	Outer Pump SwitchMAN	4-4
	CAUTION	
	MAXIMUM FUEL UNBALANCE (TIP TANK AND OUTER TANK COMBINED) IS 150 POUNDS AT LANDING.	4-4

	HEATED WINDSHIELD OVER TEMP ILLUMINATED
1	Windshield Heat Low Switch
	(faulty side)OFF
	TRIM AILERON TAB FAILURE
	Selecting LH or RH on the Trim Aileron Select Switch disconnects the electrical interconnection between the left and right trim aileron tabs. The surface can be operated independently by the control switch.
	NOTE
	The indicator will only register to the halfway mark either L or R when the operative trim aileron tab reaches maximum deflection.
1 2	Trim Aileron Select Switch
	TRIM AILERON TAB RUNAWAY
	Maintain lateral control with spoiler and rudder
	Walltain lateral control with opener and radder
1	Trim Aileron Select SwitchSELECT ONE SIDE
	If runaway continues:
2	Trim Aileron Select SwitchSELECT OTHER SIDE
	Operate the selected surface by the trim aileron control switch and retrim

(1) The pilot's turn and bank indicator will flag somewhere

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simultaneously:

in the range of 23.4 V to 22.0 V.

4-5

- (2) The Master Caution light and the panel annunciator will illuminate somewhere in the range of 20 V to 17 V. This means that the CP T/B PWR FAIL annunciator will be illuminated also: however the decreasing voltage has not yet reached a value at which the copilot's turn and bank fails. This will occur in the range of 12 V to 10 V at which time the indicator will flag.
- (3) If it is necessary to preserve the battery in order to use the copilot's turn and bank later in the flight, the pilot can isolate the battery.

NO FLAP APPROACH AND LANDING

4-5 5-18-2

Descent:

5-18-2

1 Cabin Altitude......SET Set pressure controller to 1000 feet above landing field elevation.

5-18-2

Adjust rate control knob so that airplane will be fully depressurized prior to landing. Generally, a rate of 300 to 500 fpm will be comfortable and ensure proper depressurization.

2 Fuel Transfer Control Switches......TIP MANUAL OR OFF

5-18-2

Select TIP MANUAL or OFF to prevent automatic operation of outer fuel transfer pumps during prolonged descent.

CAUTION

DO NOT USE OUTER FUEL TANKS DURING DESCENT.

5-18-2

3 Altimeters......SET 5-18-2

4 Windshield Defog......AS REQUIRED

5-18-2 5-18-2

5-18-2

In other than these conditions, select AUTO (auto ignition installed) or OFF (auto ignition not installed).

CAUTION

	IGNITION SHALL BE SELECTED TO CONT (IF AUTO IGNITION INSTALLED) OR ON (IF CONTINUOUS IGNITION INSTALLED) DURING APPROACH AND LANDING WHILE IN OR SHORTLY FOLLOWING FLIGHT IN ACTUAL OR POTENTIAL ICING CONDITIONS.	5-18-2
а	Anti-ice/De-ice	5-18-2
7	Taxi LightsAS REQUIRED Recommend on for descent.	
	Approach:	5-18-2
8	Landing Data	5-18-2
	Compute landing weight, V_{REF} for flap up position, and landing distance. Other landing data may be required depending upon circumstances. Refer to Performance Section of AFM.	
9	Fuel Quantity/BalanceCHECK - IN LIMITS Tip fuel must be below 400 pounds or an overweight landing inspection will be required. Balance within 150 pounds.	5-18-2
10	SynchrophaserOFF	5-18-2
	Differential PressureZERO Confirm cabin will be depressurized prior to landing.	5-18-2
12	Condition LeversTAKEOFF LAND Provides maximum thrust in the event of a go around.	5-18-2
13	PowerAS REQUIRED	5-18-2
14	Airspeed150 KCAS MINIMUM	
	Cabin SignON Brief passengers	
16	Anti-ice SystemAS REQUIRED	
	Pitot & Static Anti-iceON	5-18-2
	Windshield HeatLOW	5-18-2
	Landing LightAS REQUIRED	5-18-2
	(BELOW 175 KCAS)	5-18-3

Before landing:

NOTE

It is strongly recommended that the airplane be established on a stable approach for the last 1000 feet of descent in IMC conditions (or for the complete final approach segment of a non precision approach if that segment is less than 1000 feet above the field) or the last 500 feet of descent in VMC conditions. A stable approach means that the airplane is configured for landing, all checklists have been completed, power is established at a setting to maintain an airspeed of $V_{\rm REF}$ to $V_{\rm REF}$ plus 20 knots, the airspeed is steady at $V_{\rm REF}$ to $V_{\rm REF}$ plus 20 knots, the proper glide path is being maintained, the airplane is trimmed, and no unusual maneuvering is required to accomplish the landing. A missed approach is recommended if deviation from any of these parameters occurs.

18 Landing GearDOWN 4-6 (BELOW 175 KCAS)

Opposite point of intended landing or at Final Approach 4-6 Fix.

Ensure 3 green landing gear position lights illuminated and the red unsafe light extinguished. If gear malfunction occurs, emergency extension may be required. Maximum speed for normal extension is 175 KCAS.

19 Airspeed......140 KCAS MINIMUM 4-6

20 Brakes......CHECK Depress brake pedals, check firm pressure.

21 Ignition Switches......AS REQUIRED 5-18-3/-4

CAUTION

THE IGNITION SHALL BE SELECTED TO CONT (AUTO- 5-18-3/-4 IGNITION INSTALLED) OR ON (CONTINUOUS IGNITION INSTALLED) WHERE THERE IS WATER, SLUSH OR SNOW ON THE RUNWAY.

CONT or ON if runway is contaminated, raining, or in icing conditions. Also, CONT or ON shortly following exit from icing conditions whenever ice remains forward of the engine nacelle. (Observe ignition duty cycle limits). Otherwise, for aircraft with auto ignition installed, AUTO.

22 Wing De-iceOFF	5-19
NOTE	
If the wing deice system is in auto during the approach, cycle the wing deice off and on to allow one additional cycle, then select the system off prior to landing.	5-19
23 Autopilot/Yaw DamperOFF Final approach (landing assured):	
24 Airspeed	4-6
NOTE	
Landing distance will increase approximately 30 %.	4-6
Weight 1.25V _s (115KCAS MINIMUM)	
11,025 129	
10,500 127	
10,000 123	
9,500 119	
9,000 116	

Pilot Checklist

Marquise

Section 4

Abnormal Procedures

Mitsubishi

MU-2B-60

INADVERTENT ICING ENCOUNTER

NOTE

Conditions exist for icing when the outside air temperature (OAT) on the ground is +10° C or below or the indicated OAT (RAT) in flight is +10° C or below and visible moisture in any form is present.

4-6

4-6

WARNING

IN THE EVENT OF AN INADVERTENT ICING ENCOUNTER, IMMEDIATE ACTION MUST BE TAKEN BY THE PILOT WHEN THE SITUATION IS DISCOVERED.

4-6

- (1) MAINTAIN AIRPLANE CONTROL.
- (2) CHECK ENGINE INLETS AND WING LEADING EDGES AND TAKE APPROPRIATE ACTION AS DESCRIBED IN THIS PROCEDURE.
- (3) EXIT ICING CONDITIONS, IF REQUIRED.

4-7

IN ORDER TO MINIMIZE ICE ACCUMULATIONS ON UNPROTECTED LOWER SURFACES, MAINTAIN A MINIMUM SPEED OF 180 KIAS DURING OPERATIONS IN SUSTAINED CRUISE IN ICING CONDITIONS.
THIS WILL PROVIDE AN ANGLE OF ATTACK THAT REDUCES EXPOSURE (FRONTAL AREA) OF THE LOWER SURFACES TO ICE ACCUMULATION. IF UNABLE TO MAINTAIN 180 KIAS AT MAXIMUM CONTINUOUS POWER, A CHANGE IN ALTITUDE AND/OR COURSE MAY BE NECESSARY TO MAINTAIN MINIMUM AIRSPEED AND/OR TO EXIT THE ICING CONDITIONS.

4-7

IF ICE HAS BEEN ALLOWED TO BUILD UP ON THE ENGINE AIR INLET, IT MUST BE REMOVED AS SOON AS POSSIBLE. HOWEVER, BEFORE ACTIVATING THE ENGINE AIR INTAKE ANTI-ICE, THE PILOT SHOULD BE AWARE THAT AS THE ICE IS REMOVED, IT COULD DISRUPT THE AIRFLOW TO THE ENGINE AND RESULT IN FLAMEOUT OF THAT ENGINE. THE PILOT SHOULD BE PREPARED FOR THE POSSIBILITY OF SINGLE ENGINE OPERATION.

1 2 3	Ignition SwitchesCONT OR ON If Auto ignition is installed "CONT", if Continuous ignition is	4-7 4-7 4-7
	installed "ON".	
4	LH Engine Intake Anti-iceON When proper operation of the LH engine is assured:	4-7 4-7
5	RH Engine Intake Anti-iceON	4-7 4-7
6	When proper operation of both engines is assured: Ignition SwitchesCONT OR ON, OBSERVE LIMITS	4-7
	If auto ignition is installed "CONT", if continuous ignition is installed "ON".	
	SEVERE ICING ENCOUNTER	4-7
	Severe icing may result with visible rain at temperatures below 0° C, or with droplets that splash or splatter on impact at temperatures below 0° C.	4-7
	Take steps to exit severe icing immediately.	4.7
	Procedures for exiting severe icing apply to all flight phases from takeoff to landing. While severe icing may form at temperatures as low as minus 18°C, increase vigilance is warranted at temperatures around freezing with visible moisture present. If the visual cues specified in the Operating Limitations Section of the AFM for identifying severe icing conditions are observed, accomplish the following.	4-7
1	Priority HandlingREQUEST	4-8
	Change route and/or altitude to immediately exit the severe icing and to avoid extended exposure to flight conditions more severe than those for which the airplane is certified.	4-8
2	Abrupt ManeuveringAVOID	4-8
3	Control WheelHOLD If the autopilot is engaged, firmly hold the control wheel prior to disengaging the autopilot. If the autopilot is not engaged, it should remain disengaged.	4-8 4-8
4	AutopilotDISENGAGE	4-8
5	AirspeedINCREASE (180 KIAS MINIMUM IN CRUISE)	4-8
	If an unusual roll response, an uncommanded roll, or an unusual trim is observed, lower the nose (reduce the angle of attack) and allow the airspeed to increase before any reduction of engine power.	4-8

Pilot Checklist

Marquise

Section 4

Abnormal Procedures

Mitsubishi

MU-2B-60

6	PowerMAINTAIN	4-8
	OR INCREASE	
7	FlapsMAINTAIN	4-8
	Do not extend flaps during extended operation in icing conditions. Operation with flaps extended can result in a reduced wing angle of attack, with the possibility of ice forming on the upper surface further aft on the wing than normal, possibly aft of the protected area.	4-8
	If the flaps are already extended, do not retract them until the airframe is clear of ice.	

8 Report Conditions to Air Traffic Control

Pilot Checklist

Marquise

Section 4

4-8

Abnormal Procedures

Mitsubishi

MU-2B-60

Pilot Checklist Marquise Emergency & Abnormal

ABNORMAL

MU-2B-60 EMERGENCY AND ABNORMAL PROCEDURES TABLE OF CONTENTS

	ENGINE FAILURE PRIOR TO LIFTOFF	E-1
	ENGINE FAILURE AFTER	E-1
	LIFTOFF- CONTINUED	
	CLIMB NOT POSSIBLE	
	ENGINE FAILURE AFTER	E-1
	LIFTOFF - CONTINUED	
	CLIMB	
	BETA LIGHT ON IN FLIGHT	E-2
	AUTOIGNITION RELIGHT	E-2
ENGINE	FAILURE (applicable to	
	airplanes equipped with	
	auto-ignition system)	
	ENGINE SHUTDOWN	E-2
	DRIFTDOWN	E-3
	SINGLE ENGINE LANDING	E-3
	SINGLE ENGINE GO-	E-5
	AROUND	
	ENGINE FIRE	E-5
	AIRSTART	E-5
	SRL SYSTEM FAILURE	A-1
	FUEL BOOST PUMP	E-6
	FAILURE	
	FUEL PRESSURE DROP	A-1
	TIP AUTO FUEL TRANSFER	A-1
	FAILURE- TIP MANUAL	
	OUTER AUTO FUEL	A-2
FUEL	TRANSFER FAILURE –	
	OUTER MANUAL	
	OUTER FUEL TANK	A-2
	TRANSFER PUMP FAILURE	
	(except S/N 700SA)	
	SMOKE AND FUMÉ	E-7
	ELIMINATION	
	BATTERY OVERHEAT	E-10
ELECTRICAL /	L OR R DC GEN OUT	E-11
ELECTRICAL/ SMOKE	ANNUNCIATOR	
SIVIUNE	ILLUMINATES	
	INVERTER FAIL	E-12
	ANNUNCIATOR CYCLES	
	ON/OFF	
SEE NEXT PAGE		

Mitsubishi MU-2B-60	Pilot Checklist Emerger Marquise & Abnor	
	INVERTER FAIL ANNUNCIATOR ILLUMINATES	E-12
ELECTRICAL/ SMOKE	L FEEDER OUT ANNUNCIATOR ILLUMINATES	E-13
	R FEEDER OUT ANNUNCIATOR ILLUMINATES	E-13
LANDING GEAR	LANDING GEAR NOT FULLY RETRACTED	E-8
LANDING GEAR	LANDING GEAR EMERGENCY EXTENSION	E-8
AIR	CABIN PRESS LOW ANUNCIATOR ILLUMINATED	E-9
CONDITIONING/ PRESSURIZATION	AIR COND SYS FAIL ANNUNCIATOR ILLUMINATED	E-9
	EMERGENCY DESCENT	E-10
	PITCH TRIM RUNAWAY	E-13
FLIGHT	TRIM AILERON TAB FAILURE	A-3
CONTROLS	TRIM AILERON TAB RUNAWAY	A-3
	NO FLAP APPROACH AND LANDING	A-4
	STATIC SYSTEM FAILURE	A-3
	HEATED WINDSHIELD	A-2
IOE BROSES	OVER TEMP ILLUMINATED	-
ICE PROTECTION	INADVERTANT ICING	A-6
	ENCOUNTER SEVERE ICING	Λ 6
	ENCOUNTER	A-6
	DEFOG OVER TEMP	E-9
	ANNUNCIATOR	_ •
	ILLUMINATED	
	P T/B PWR FAIL	A-3
	ANNUNCIATOR	
MISCELLANEOUS		
	CP T/B PWR FAIL	A-3
	ANNUNCIATOR ILLUMINATED	
	EMERGENCY EXIT DOOR	A-5
	OPERATION	

Mitsubishi Pilot Checklist MU-2B-60 Marquise

Emergency & Abnormal

Intentionally Left Blank

Pilot Checklist Section 3
Marquise Emergency Procedures

MU-2B-60		Marquise	Emergency Procedures	
ENGINE FAILURE PRIOR TO LIFTOFF				
1			GROUND IDLE	
2			AS REQUIRED	
3	Reverse Thrust		AS REQUIRED	
	ENGINE FAILURE AFTER LIFTOFF - CONTINUED CLIMB NOT POSSIBLE			
1	Landing Gear		DOWN	
2			AS REQUIRED	
3	Flaps		TAKEOFF	
4			105 KCAS MINIMUM	
		- 45750 157	OFF CONTINUED	
ENGINE FAILURE AFTER LIFTOFF - CONTINUED CLIMB				
1	Landing Gear		UP	
2	Airspeed		Vxse MINIMUM	
			FOR FLAP	
			CONFIGURATION	
3	Condition Lever (failed engine)	EMERGENCY	
			STOP	
4			TAKEOFF	
5			RETRACT	
6	Airspeed	•••••	VYSE MINIMUM FOR FLAP	
			CONFIGURATION	
7	Flans		5°	
8			140 KCAS MINIMUM	
9			UP	
			150 KCAS	
			AS REQUIRED	
		- <i>'</i>		

(failed engine).....ACCOMPLISH

12 Engine Shutdown

BETA LIGHT ON IN FLIGHT

With no control problem: 1 Engine Shutdown (affected engine).....PRIOR TO LANDING With control problem: 2 Engine Shutdown (affected engine).....IMMEDIATE 3 Land Using Single Engine Procedures

AUTO IGNITION RELIGHT FAILURE (APPLICABLE TO AIRPLANES EQUIPPED WITH AUTO **IGNITION SYSTEM)**

1	Failed Engine EGT and RPMCHECK
	If EGT or RPM abnormal:
2	Condition Lever (failed engine)EMERGENCY
	STOP
3	Power Lever (failed engine)TAKEOFF
4	Engine ShutdownACCOMPLISH

ENGINE SHUTDOWN			
1	Condition Lever (failed engine)	EMERGENCY	
		STOP	
2	Power Lever (failed engine)	TAKEOFF	
3	Trim	SET	
4	Power (operating engine)	AS REQUIRED	
5	DC Generator Switch (failed		
	engine)	OFF	
6	Voltammeter		
	(main bus tie check in flight)	CHECK	
7	DC Generator Load (operating		
	engine)	REDUCE	

(IF NECESSARY)

	ubishi 2B-60	Pilot Checklist Marquise	Section 3 Emergency Procedures
		·	
8	Cabin Air Selector	Switch	OPERATING ENGINE OR RAM
9	Operating Engine	Power Lever	SET
Ū	operating Engine	TOWOT LOVOI	AS REQUIRED
10	Synchrophaser		OFF
11	Ignition Switch (fa	iled engine)	OFF
		DRIFTDOWN	
1		•	
			ACCOMPLISH
2	Power (operating of	engine)	AS REQUIRED
3	Airspeed		135 KCAS
		RE	COMMENDED FOR
		PRC	LONGED DESCENT
4	Pressurization Sys	stem	SELECT
		C	PERATING ENGINE
			BLEED AIR
		E ENGINE LAI	NDING
1	Engine Shutdown	•	
			ACCOMPLISH
	Descent (single e	engine) :	
2			SET
3	Fuel Transfer Con	trol Switches	TIP MAN OR OFF

9 Landing Data
 11 Propeller SynchrophaserOFF 12 Differential PressureZERO 13 Condition Lever (operating engine)TAKEOFF LAND
12 Differential PressureZERO 13 Condition Lever (operating engine)TAKEOFF LAND
13 Condition Lever (operating engine)TAKEOFF LAND
engine)TAKEOFF LAND
14 Power Lever (operating
engine)AS REQUIRED
15 Cabin SignON
16 Windshield HeatLOW
17 Cabin Air Selector SwitchOFF OR RAM
18 Landing GearUP
19 FlapsUP
20 Airspeed150 KCAS
(140 KCAS MINIMUM)
Base leg or final descent :
21 Flaps5°
22 Airspeed140 KCAS
(130 KCAS MINIMUM)
23 Ignition SwitchAS REQUIRED
24 Wing De-iceOFF
25 Autopilot / Yaw DamperOFF
26 Landing LightsAS REQUIRED
Landing assured :
27 Landing GearDOWN
28 Power Lever (operating
engine)AS REQUIRED
29 BrakesCHECK
30 Flaps20°
31 Airspeed110 KCAS
OVER RUNWAY
After touchdown:
32 BrakesAS REQUIRED
33 ReverseAS REQUIRED

	SINGLE ENGINE G	O AROUND
1	Condition Lever (operating	
	engine)	
2	Power Lever(operating engine	e)TAKEOFF
3	Landing Gear	UP
4	Landing Light	RETRACT
5	Flaps	5°
6	Airspeed	140 KCAS
7	Flaps	UP
		(WHEN POSITIVE
		CLIMB ESTABLISHED)
8	Cabin Air Selector Switch	RAM OR OFF
9	Airspeed	150 KCAS
10	Engine Anti-ice Switch	AS REQUIRED
1	ENGINE FI	
1	Condition Lever (failed engine	
		STOP
2	Power Lever (failed engine)	
3	Fire Handle (failed engine)	
4	Engine Shutdown	ACCOMPLISH
5	Land As Soon As Possible	
	AIRSTAR	
1	Airspeed	
		-150 KCAS
		RECOMMENDED
2	Altitude	BELOW 20,000 FT
3	SRL System	ON
4	Synchrophaser	
5	EGT	
		(IF FEASIBLE)

6 Condition Lever......MINIMUM CRUISE

Mitsubis MU-2B-		Pilot Checklist Marquise	Section 3 Emergency Procedures
7 Pc	ower Lever		HALF INCH
			FORWARD
			OF FLIGHT IDLE
8 St	art Selector Swi	tch	AIRSTART & SAFE
9 Igi	nition Switch		OFF
10 Ru	un-Crank-Stop S	Switch	RUN
11 Ur	nfeather Switch.		HOLD
			TO 30% RPM
12 Cc	ondition Lever		AS REQUIRED
13 Pc	wer Lever		AS REQUIRED
14 Vo	oltammeter		
(m	ain bus tie chec	k in flight)	CHECK
15 D	C Generator Swi	itch	ON / RESET
			IF NECESSARY
16 Vo	oltammeter		27 TO 29.5 VDC
_			AS REQUIRED
18 Ca	abin Air Selector	Switch	ВОТН
19 Sy	nchrophaser		AS REQUIRED

FUEL BOOST PUMP FAILURE

1 Fuel Boost Pump
Circuit Breaker (faulty side)......DISENGAGE

2 Land As Soon As Possible

SMOKE AND FIIME FI IMINATION

	SMOKE AND FUME ELIMINATION			
	Cabin or cockpit smoke or odo unknown source:	r, known or		
1	Oxygen Outlet Valve	OPEN		
2	Oxygen Masks	DON AND USE		
	Known source:			
1	Faulty Circuit or System	SWITCH OFF AND		
		DISENGAGE		
		ASSOCIATED		
		CIRCUIT BREAKERS		
	Unknown source:			
1	Cockpit and Cabin Room Light			
	Switches	ON		
2	Master Switch	EMERGENCY		
3	Battery Switches	BOTH ISOLATE		
4	DC Generator Switches	BOTH OFF		
5	Inverter Switch	OFF		
6	All Switches and Circuit			
	Breakers	OFF OR		
		DISENGAGE		
7	Master Switch	NORMAL		
8	Battery, DC Generator			
	Switches and Inverter Switch	ON		
	If smoke or odor stops :			
9	Switches and Circuits Breakers			
	for Equipment Essential to the			
	Particular Phase of Flight			
		ONE AT A TIME		
		(ATTEMPT TO		
		ISOLATE CIRCUIT)		
	If smoke or odor increases:			
	Cabin Air Selector Switch	RAM		
11	Battery, DC Generator, and	_		
	Inverter Switches			
12	Manual Pressure Control Valve	FULL DECREASE		

	ubishi 2B-60	Pilot Checklist Marquise	Section 3 Emergency Procedures
13	Execute High Speet to Low Altitude If N		
14	Pilot's Communica	tion Door	OPEN
15	Emergency Exit		OPEN
			(IF FEASIBLE)
	If smoke or odor	persists:	
16	Land As Soon As I	Possible	
	LANDING GEA		
_			130 KCAS MAXIMUM
2	-		5°
3	_		DOWN
	If green lights ind indicates abnorm		but unsafe light
4	Land As Soon As I	Practical	
	If green lights indindicates abnorm		al, and unsafe light
4	Landing Gear Eme	ergency	
	Extention		ACCOMPLISH
5	Land As Soon As I	Practical	
	If green lights and	d unsafe light	indicate normal:
4	Landing Gear		UP
5	Green Lights and U	Jnsafe Light	CHECK NORMAL
			INDICATION
	LANDING GEA	R EMERGENC	Y EXTENSION
1	Airspeed		130 KCAS MAXIMUM
2			5°
3	Landing Gear Circ	uit Breakers	

Airspeed	130 KCAS MAXIMUM
Flaps	5°
Landing Gear Circuit Breakers	
(control, landing gear, door)	PULL
Landing Gear Position	
Indicator Circuit Breaker	ENGAGED
	Flaps Landing Gear Circuit Breakers (control, landing gear, door) Landing Gear Position

Mitsubishi MU-2B-60		Pilot Checklist Marquise	Section 3 Emergency Procedures	
5	Landing Gear		DOWN	
6	Landing Gear Em	ergency		
	Handle		PULL AND PUMP	
7	Landing Gear Ligh	nt	CHECK	
C	CABIN PRESS LOV	W ANNUNCIAT	OR ILLUMINATED	
1	Oxygen		AS REQUIRED	
2	Cabin Pressurizat	ion Control	CHECK	
3	Manual Pressure	Control Valve	FULL INCREASE	
4	Cabin Air Selector	r Switch	BOTH OR	
		(OPERATING ENGINE	
	If pressure rema	ains low :		
5	Descend to Alltitue	de Not Requirir	ng Oxygen	
	AIRCOND SYS FA	IL ANNUNCIA	TOR ILLUMINATED	
1	Cabin Air Selector	r Switch	RH	
2	Cabin Pressurizat	ion Control	CHECK	
3	Oxygen		AS REQUIRED	
4	Descend to Altitud			
	Requiring Oxygen		HIGH OR LOW	
			SPEED DESCENT	
	If air conditioning illuminated:	g system fail a	annunciator remains	
5	Cabin Air Selector	r Switch	RAM	
DEFOG OVER TEMP ANNUNCIATOR ILLUMINATED				
1	Defogging Selector	or Valve	FULL DEC	
2	Emergency Desce	ent	AS SOON	
			AS POSSIBLE	
3	Manual Pressure	Control Valve	FULL DEC	
	Mariaar r 1055arc	Control valve	OLL DLG	

KCAS MAXIMUM)

	EMERGENCY DESCENT			
	High Speed Descent			
1	Oxygen Mask / Valve	DON / OPEN		
2	Power Levers	FLIGHT IDLE		
3	Condition Levers	TAKEOFF LAND		
4	Airspeed	V_{MO}/M_{MO}		
	Low Speed descent			
1	Oxygen Mask / Valve	DON / OPEN		
2	Power Levers	FLIGHT IDLE		
3	Condition Levers	TAKEOFF LAND		
4	Landing Gear	DOWN		
		(BELOW 175 KCAS)		
5	Flaps	40°		
		(BELOW 120 KCAS)		
6	Airspeed	V _{FE} (155		

BATTERY OVERHEAT Battery temperature 120° annunciator illuminates : If on ground: DO NOT TAKEOFF AND MONITOR If in flight: 1 Battery Temperature......MONITOR If temperature reaches 140 °F: 2 Battery Isolate Switch.....ISOLATE Battery overtemp annunciator (RED 150°F Light) illuminates : If on ground: **ABORT** If in flight: 3 Battery Isolate Switch.....ISOLATE

Section 3 Marguise Emergency Procedures

If temperature continues to rise after isolating and goes full scale :

4 Land As Soon As Possible If battery has cooled below 120 °F approaching terminal area:

5 Battery Isolate Switch.....ON (FOR LANDING TO PREVENT POWER LOSS AT LOW RPM)

If battery temperature 120° annunciator reilluminates, exercise caution. Notify tower of problem prior to landing:

6 Battery Isolate Switch.....ISOLATE

L OR R DC GEN OUT ANNUNCIATOR ILLUMINATED

1 Generator Control and Generator Field Circuit

Breakers (affected side)......CHECK

IF OUT, RESET

If light remains illuminated:

2 DC Generator Switch

(affected side).....RESET, THEN ON

If light is not extinguished:

3 DC Generator Switch (affected

side).....OFF

4 Voltammeters

(main bus tie check in flight)......CHECK

5 DC Generator Load (operating

engine).....REDUCE

(IF NECESSARY)

Pilot Checklist Section 3
Marquise Emergency Procedures

INVERTER FAIL ANNUNCIATOR CYCLES ON/OFF			
	Applies to S/N 700SA, 731SA Through 798SA		
1	Inverter SwitchOFF		
2	Fuel QuantityCALCULATE		
3	Engine Instruments (operating		
	engine)MONITOR		
4	Alternate Flight InstrumentsUSE		
5	Land As Soon As Possible		
	INVERTER FAIL ANNUNCIATOR ILLUMINATED		
	If aircraft is not equipped with a 6 bus AC system, skip steps 3 and 4:		
1	Inverter SwitchSELECT		
	OTHER INVERTER		
2	Affected Inverter Power and		
	Control Circuit BreakersPULL		
	If main inverter failed (6 AC bus):		
За	LH 115VAC Power Circuit		
	BreakerPULL		
3b	LH 26VAC Power Circuit		
	BreakerPULL		
	If standby inverter failed (6 AC bus):		
4a	RH 115VAC Power Circuit		
	BreakerPULL		
4b	RH 26VAC Power Circuit		
	BreakerPULL		
	If inverter fail annunciator illuminated after		
	selecting other inverter:		
5	Inverter SwitchOFF		
6	Power and Control Circuit		
	Breakers (affected side)PULL		
7	Fuel QuantityCALCULATE		
8	Engine Instruments (operating		
	engine)MONITOR		
	Alternate Flight InstrumentsUSE		
10	Land As Soon As Possible		

	L FEEDER OUT ANNUMOUSTOS	NII I IIMINIATED
	L FEEDER OUT ANNUNCIATOR	
1	Inverter Switch	STANDBY
2	LH Feeder Control Circuit	
	Breaker	,
3	50AMP Bus Tie Circuit Breaker	CHECK, RESET
	If reset is unsuccessful, reduce	load on RH Bus
	and reset CB:	
4	Electrical Load	MONITOR
	R FEEDER OUT ANNUNCIATOR	RILLUMINATED
1	Inverter Switch	MAIN
2	RH Feeder Control Circuit	
	Breaker	CHECK, RESET
3	50AMP Bus Tie Circuit Breaker	CHECK, RESET
	If reset is unsuccessful, reduce	load on LH Bus
	and reset CB:	
4	Electrical Load	MONITOR
	PITCH TRIM RUNAV	VAY
1	Autopilot/Trim Disconnect	
	Switch	PRESS & HOLD
2	LH Radio Master Switch	OFF
3	Autopilot/Trim Disconnect	
	Switch	RELEASE
4	Manual Trim	AS REQUIRED
5	Autopilot Master (If Installed)	OFF
6	Pitch Trim Circuit Breaker &	
	Autopilot Circuit Breakers	DISENGAGE
7	LH Radio Master Switch	ON

Mitsubishi MU-2B-60 Pilot Checklist Section 3
Marquise Emergency Procedures

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		AFM
	ENGINE FAILURE PRIOR TO LIFTOFF	page
1 P	ower LeversGROUND IDLE	3-1
	lse reverse thrust as required	3-1
2 <mark>B</mark>	rakesAS REQUIRED	3-1
3 <mark>R</mark>	leverse ThrustAS REQUIRED	3-1
	CAUTION	
IS T	ON OTHER THAN DRY, HARD SURFACE RUNWAYS, IT IS POSSIBLE TO APPLY MORE REVERSE THRUST HAN CAN BE COUNTERACTED BY RUDDER, PRAKES, AND NOSEWHEEL STEERING.	3-1
ENC	GINE FAILURE AFTER LIFTOFF - CONTINUED CLIMB NOT POSSIBLE	
	CAUTION	
S (C D	CHECK SINGLE ENGINE RATE OF CLIMB* BY USING CHECK SINGLE ENGINE CLIMB PERFORMANCE CHART GEAR UP) IN PILOT OPERATION MANUAL TO DETERMINE WHETHER LAND STRAIGHT AHEAD OR CONTINUE CLIMBING BEFORE TAKEOFF.	
V	IF SINGLE ENGINE RATE OF CLIMB IS NEGATIVE ALUE, REDUCING TAKEOFF WEIGHT IS ECOMENDED.	
1 La	anding GearDOWN	3-1
	ower(operating engine)AS REQUIRED	3-1
	lapsTAKEOFF	3-1
L	eave in selected position	3-1
4 Li	and Straight Ahead105 KCAS MINIMUM	3-1
ENC	GINE FAILURE AFTER LIFTOFF - CONTINUED CLIMB	
	anding GearUP	
2 <mark>A</mark>	irspeedVxse MINIMUM	
	FOR FLAP	
	CONFIGURATION FMEROENCY	0 1
3 <mark>C</mark>	Condition Lever (failed engine)EMERGENCY	3-1

4 Power Lever (failed engine)......TAKEOFF

		AFM
		page
	WARNING	
	IDENTIFY FAILED ENGINE BY POWER ASYMMETRY AND ENGINE INSTRUMENTS. DO NOT RETARD FAILED ENGINE POWER LEVER. PLACE FAILED ENGINE POWER LEVER TO TAKEOFF POSITION DURING FEATHERING OF PROPELLER AND LEAVE THERE FOR THE REMAINDER OF THE FLIGHT.	3-1
	CAUTION	
	RUN-CRANK-STOP SWITCH MUST REMAIN IN RUN POSITION.	3-1
	Landing LightRETRACT 3-1 AirspeedVYSE MINIMUM FOR FLAP CONFIGURATION	3-1
7	Flaps5°	3-1
	Airspeed140 KCAS MINIMUM	
9	FlapsUP	3-2
10	Airspeed150 KCAS	3-2
11	Power(operating engine)AS REQUIRED	3-2
	WARNING	
	AIR CONDITIONING AND PRESSURIZATION SYSTEM MUST REMAIN OFF TO ATTAIN FULL CLIMB CAPABILITY.	3-2
12	Engine Shutdown	3-2
	(failed engine)ACCOMPLISH	3-2
	Single engine climb rates are best attained with wings level by use of rudder to correct for yawing tendency and using the minimum amount of spoiler necessary to maintain lateral control.	3-2
	FLAP SETTING $V_{XSE}(KCAS)$ V_{YSE} (KCAS)	3-2
	0° (Up) 140 150* 5° 130 140 20° 125 135 *V _{YSE} , Maximum Takeoff Gross Weight, Sea Level Standard day, Flaps 0° is 152 KCAS. 150KCAS is	
	recommended for all weights.	

		AFM
	BETA LIGHT ON IN FLIGHT	page
	Should either beta range annunciator illuminate in flight in other than a full stall condition and no control problem is present in rpm or yaw:	3-2
	With no control problem:	3-2
1	Engine Shutdown (affected engine)PRIOR TO LANDING	3-2
	With control problem:	3-2
2	Engine Shutdown (affected	3-2
3	engine)IMMEDIATE Land Using Single Engine Procedures	3-2
	· · · · · · · · · · · · · · · · · · ·	
	CAUTION	
	ILLUMINATION OF EITHER BETA RANGE ANNUNCIATOR IN FLIGHT MAY BE AN INDICATION OF A PROPELLER CONTROL MALFUNCTION. IT MAY BE IMPOSSIBLE TO REDUCE THRUST ON THE AFFECTED ENGINE DURING LANDING OR AFTER TOUCHDOWN.	3-2
	AUTO IGNITION RELIGHT FAILURE (APPLICABLE TO IRPLANES EQUIPPED WITH AUTO IGNITION SYSTEM)	
	Ignition annunciator light illuminates with auto-ignition selected, engine fails to accelerate properly.	3-3
1	Failed Engine EGT and RPMCHECK	3-3
	If EGT or RPM abnormal:	
2	Condition Lever (failed engine)EMERGENCY STOP	3-3
3	Power Lever (failed engine)TAKEOFF	3-3
4	Engine ShutdownACCOMPLISH	3-3
	CAUTION	
	IF ACTUATION OF THE AUTO IGNITION WAS DUE TO ICE INGESTION, ENSURE THAT APPROPRIATE PROCEDURES ARE EXECUTED FOR FLIGHT IN ICING CONDITIONS.	3-3

ENGINE SHUTDOWN If engine failure occurs, or if a sudden loss or significant fluctuation (±7.5%) of indicated torque pressure occurs, as indicated by airplane yaw, promptly shutdown the affected engine and determine the cause prior to further operation. Condition Lever (failed engine)			AF
If engine failure occurs, or if a sudden loss or significant fluctuation (±7.5%) of indicated torque pressure occurs, as indicated by airplane yaw, promptly shutdown the affected engine and determine the cause prior to further operation. Condition Lever (failed engine)		ENGINE SHUTDOWN	pag
Power Lever (failed engine)		If engine failure occurs, or if a sudden loss or significant fluctuation (±7.5%) of indicated torque pressure occurs, as indicated by airplane yaw, promptly shutdown the affected	3-0
IDENTIFY FAILED ENGINE BY POWER ASYMMETRY AND ENGINE INSTRUMENTS. DO NOT RETARD FAILED ENGINE POWER LEVER. PLACE FAILED ENGINE POWER LEVER TO TAKEOFF POSITION DURING THE FEATHERING OF PROPELLER AND LEAVE THERE FOR THE REMAINDER OF THE FLIGHT. CAUTION RUN-CRANK-STOP SWITCH MUST REMAIN IN RUN POSITION. 3 Trim	1		3-
IDENTIFY FAILED ENGINE BY POWER ASYMMETRY AND ENGINE INSTRUMENTS. DO NOT RETARD FAILED ENGINE POWER LEVER. PLACE FAILED ENGINE POWER LEVER TO TAKEOFF POSITION DURING THE FEATHERING OF PROPELLER AND LEAVE THERE FOR THE REMAINDER OF THE FLIGHT. CAUTION RUN-CRANK-STOP SWITCH MUST REMAIN IN RUN POSITION. 3 Trim	2	Power Lever (failed engine)TAKEOFF	3-
AND ENGINE INSTRUMENTS. DO NOT RETARD FAILED ENGINE POWER LEVER. PLACE FAILED ENGINE POWER LEVER TO TAKEOFF POSITION DURING THE FEATHERING OF PROPELLER AND LEAVE THERE FOR THE REMAINDER OF THE FLIGHT. CAUTION RUN-CRANK-STOP SWITCH MUST REMAIN IN RUN POSITION. 3 Trim		WARNING	
RUN-CRANK-STOP SWITCH MUST REMAIN IN RUN POSITION. 3 Trim		AND ENGINE INSTRUMENTS. DO NOT RETARD FAILED ENGINE POWER LEVER. PLACE FAILED ENGINE POWER LEVER TO TAKEOFF POSITION DURING THE FEATHERING OF PROPELLER AND LEAVE THERE FOR THE REMAINDER OF THE	3-
POSITION. 3 Trim		CAUTION	
4 Power (operating engine)			3-
5 DC Generator Switch (failed engine)OFF 6 Voltammeter (main bus tie check in flight)CHECK	-		3-3 3-3
engine)OFF 6 Voltammeter (main bus tie check in flight)CHECK	-	· · · · · · · · · · · · · · · · · · ·	3-
(main bus tie check in flight)CHECK	Ĭ	•	
	6		
NOTE		(main bus tie check in flight)CHECK	
		NOTE	

Both voltammeters should indicate between 27 and 29.5 volts. Amperage on the side of the operating engine should be less than 200 amps (175 amps if above 28,000 feet).

FAA Accepted Feb 12, 2007 YET-06220C Pilot Checklist Marquise

Section 3 Emergency Procedures

AFM page

CAUTION

IF EITHER VOLTAMMETER INDICATES BATTERY VOLTAGE (22 - 24 VOLTS) INSTEAD OF GENERATOR VOLTAGE (27 - 29.5 VOLTS) THE 200 AMP BUS TIE CIRCUIT BREAKER IS OPEN AND THE FOLLOWING EQUIPMENT IS POWERED BY BATTERY ONLY. REDUCE LOADS ON THE AFFECTED BUS TO SAVE BATTERY FOR LANDING.

LEFT DC GENERATOR INOPERATIVE, 200 AMP BUS TIE CIRCUIT BREAKER OPEN, NO. 1 BATTERY POWERS

- a. MAIN INVERTER
- b. LH WINDSHIELD HEAT
- c. LH RADIO MASTER (AUTOPILOT, COMM 1, PHONE AUDIO, RNAV, ATC 1, ADF 1, VOR 1, DME 2)

RIGHT DC GENERATOR INOPERATIVE, 200 AMP BUS TIE CIRCUIT BREAKER OPEN, NO. 2 BATTERY POWERS

- a. STANDBY INVERTER
- b. RH WINDSHIELD HEAT
- c. LANDING GEAR (EXCEPT INDICATOR LIGHTS)
- d. RH RADIO MASTER (COMM 2, SPEAKER AUDIO, RADAR, ATC 2, ADF 2, DME 1, VOR 2)

7	DC Generator Load (operating	
	engine)REDUCE	3-4
	(IF NECESSARY)	
8	Cabin Air Selector SwitchOPERATING	3-4
	ENGINE OR RAM	
	NOTE	
	Ram Air Position will depressurize Cabin. Oxygen may be required.	3-4
	NOTE	
	If maximum thrust is required, select RAM.	
9	Operating Engine Power LeverSET	3-4
	AS REQUIRED	
10	SynchrophaserOFF	3-4

11 Ignition Switch (failed engine)......OFF

		AFM
		page
	DRIFTDOWN	
	Following an engine failure at altitudes above 25,000 feet pressure altitude:	3-4
1	Engine Shutdown (failed	
	engine)ACCOMPLISH	3-4
2	Power (operating engine)AS REQUIRED	3-4
3	Airspeed135 KCAS	3-4
	RECOMMENDED FOR	
	PROLONGED DESCENT	
4	Pressurization SystemSELECT	3-4
	OPERATING ENGINE	
	BLEED AIR	
	NOTE	
	For prolonged descent above 25,000 feet pressure altitude, it may be necessary to utilize oxygen. Observe cabin altitude warning light. Recommended airspeed for	3-4

SINGLE ENGINE LANDING

prolonged descent is 135 KCAS with operating engine at

maximum continuous power setting.



THE USE OF 40° FLAPS WITH AN ENGINE INOPERATIVE IS NOT RECOMMENDED. ALWAYS MAINTAIN AIRSPEED ABOVE V_{XSE} FOR FLAP SETTING BEING USED UNTIL LANDING IS ASSURED.

NOTE

Use power as required to maintain proper airspeed. When planning a single engine landing, if the airplane is able to climb or maintain altitude on the single engine, it is generally prudent to fly a wide pattern to a long, stabilized final. Proper airspeed control and configuration management will greatly ease the workload and increase the margin of safety.

AFM page

NOTE

Once the gear are extended, the airplane may not be able to climb even with full power set on the operating engine, unless the gear are subsequently retracted. Landing gear extension requires approximately 17 seconds to accomplish. Circling approaches and non-precision approaches should be flown with the landing gear up until the field is in sight, the landing is assured and a normal glidepath can be maintained to touchdown, at which time the gear are lowered. For visual approaches and precision approaches, where a normal glidepath can be maintained until touchdown, the landing gear should be lowered at the final approach fix or turning base leg, as appropriate.

NOTE

Proper selection of a landing field in the event of an engine failure is essential. A circling approach at minimums places a much greater workload on the pilot than a visual approach. An ILS provides greater safety margins than a non-precision approach.

fully depressurized prior to landing.

Generally, a rate of 300 to 500 fpm will be comfortable and ensure proper depressurization.

3 Fuel Transfer Control Switches......TIP MAN OR OFF 5-18-2

CAUTION

Select TIP MANUAL or OFF to prevent automatic operation 5-18-2 of outer fuel transfer pumps during descent.

4 Altimeters.......SET 5-18-2

5 Windshield Defog......AS REQUIRED 5-18-2

6 Ignition Switch	AFM page 5-18-2 5-18-2 5-18-2
CAUTION	
IGNITION SHALL BE SELECTED TO CONT (IF AUTO IGNITION INSTALLED) OR ON (IF CONTINUOUS IGNITION INSTALLED) DURING APPROACH AND LANDING WHILE IN OR SHORTLY FOLLOWING FLIGHT IN ACTUAL OR POTENTIAL ICING CONDITIONS.	5-18-2
7 Anti-ice & De-iceAS REQUIRED	5-18-2
a Pitot & Static Anti-iceON	5-18-2
b Windshield HeatLOW If descent through icing conditions is anticipated, turn on all anti-ice and de-ice equipment. 8 Taxi LightsAS REQUIRED Recommended on for descent. Approach (single engine):	5-18-2
PLanding Data	5-18-2
10 Fuel Quantity / BalanceCHECK	3-4

Tip fuel must be below 400 pounds or an overweight landing inspection will be required.

Balance within 150 pounds.

11 12	Propeller SynchrophaserOFF Differential PressureZERO Confirm cabin will be depressurized prior to turning off cabin air.	AFM page 5-18-2 5-18-2
13	Condition Lever (operating	
	engine)TAKEOFF LAND	3-4
	Provides maximum thrust in the event of a go-around.	
14	Power Lever (operating	
	engine)AS REQUIRED	3-5
15	Cabin SignON	5-18-2
	Brief passengers.	5-18-2
16	Windshield HeatLOW	5-18-2
17	Cabin Air Selector SwitchOFF OR RAM	3-4
	NOTE	
	Ensures maximum power available in the event of a go around.	
18	Landing GearUP	3-5
19	FlapsUP	3-5
	Airspeed150 KCAS	3-5
	(140 KCAS MINIMUM)	
	Base leg or final descent :	3-5
	Approximately 1000 ft AGL	3-5

NOTE

It is strongly recommended that the airplane be established on a stable approach for the last 1000 feet of descent in instrument meteorological conditions (or for the complete final approach segment of a non precision approach if that segment is less than 1000 feet above the field) or the last 500 feet of descent in visual meteorological conditions. A stable approach means that the airplane is configured for approach, all checklists have been completed (except for landing assured items), power is established at a setting to maintain 140 KCAS (minimum 130 KCAS), airspeed is steady at 140 KCAS (minimum 130 KCAS), the proper glide path is maintained, the airplane is trimmed, and no unusual maneuvering is required to accomplish the landing. A missed approach is recommended if deviation from any of these parameters occurs. When operating with one engine, selection of gear down, flaps 20° and deceleration to runway threshold speed

should not occur until landing is assured.

		AFM
01	F1	page 3-5
	Flaps5° Airspeed140 KCAS	3-5 3-5
22	(130 KCAS MINIMUM)	0 0
23	Ignition Switch	5-18-3/
		5-18-4
	NOTE	
	ON or CONT for operating engine (OFF for failed engine) if runway is contaminated, raining, or in icing conditions. Also, ON or CONT for operating engine (OFF for failed engine) shortly following exit from icing conditions. Otherwise, for aircraft with auto ignition installed, AUTO.	5-18-3/ 5-18-4
24	Wing De-iceOFF	5-19
	NOTE	
	If the wing deice system is in auto during the approach, cycle the wing deice off and on to allow one additional cycle, then select the system off prior to landing.	5-19
25	Autopilot / Yaw DamperOFF	
	NOTE	
	Autopilot must remain off for approach and/or landing. Refer to AFM supplement.	
26	Landing LightsAS REQUIRED	5-18-2
	Landing assured :	3-5
27	Landing GearDOWN	3-5
	NOTE	
28	Ensure 3 green landing gear position lights illuminated and the red unsafe light extinguished. If gear malfunction occurs, emergency extension may be required. Maximum speed for normal extension is 175KCAS. For visual and ILS approaches, the landing gear will normally be extended at the final approach fix or turning base leg. For non-precision or circling approaches, the landing gear will normally be extended when landing is assured and a normal glidepath can be maintained to touchdown. Power Lever (operating	
	engine)AS REQUIRED	3-5
	BrakesCHECK	c =
	Flaps	3-5
31	Airspeed110 KCAS OVER RUNWAY	3-5
	OVERTIONWAY	

		AFM page
	WARNING	
	DO NOT ATTEMPT A GO AROUND BELOW 400 FEET AGL OR AFTER 20° OF FLAPS ARE SELECTED.	3-5
	CAUTION	
	UP TO 10% ADDITIONAL RUNWAY MAY BE REQUIRED USING THIS PROCEDURE WHEN COMPARED TO THE NORMAL TWO ENGINE LANDING DISTANCE.	3-5
	After touchdown:	3-5
	BrakesAS REQUIRED ReverseAS REQUIRED	3-5
	CAUTION	
	homenned	
	ON OTHER THAN DRY, HARD SURFACE RUNWAYS, IT IS POSSIBLE TO APPLY MORE REVERSE THRUST THAN CAN BE COUNTERACTED BY RUDDER, BRAKES, AND NOSEWHEEL STEERING.	3-5
	SINGLE ENGINE GO AROUND	
	WARNING	
	UNDER CERTAIN COMBINATIONS OF WEIGHT, TEMPERATURE, AND PRESSURE ALTITUDES, WITH LANDING GEAR DOWN AND FLAPS 20° SINGLE ENGINE GO AROUND MAY NOT BE POSSIBLE AT ALTITUDES OF LESS THAN 400 FEET AGL. DURING TRANSITION FROM STEADY APPROACH (GEAR DOWN AND FLAPS 20°) TO ESTABLISHMENT OF POSITIVE CLIMB (GEAR UP, FLAPS UP) AN ALTITUDE LOSS WILL RESULT. A GO AROUND AFTER FLAPS ARE EXTENDED TO 20° SHOULD NOT BE ATTEMPTED. DO NOT SELECT 40° FLAPS UNTIL LANDING IS ASSURED. ALWAYS MAINTAIN AIRSPEED ABOVE VXSE FOR FLAP SETTING BEING USED UNTIL LANDING IS ASSURED.	3-6
1	Condition Lever (operating engine)TAKEOFF LAND	3-6
2	Power Lever(operating engine)TAKEOFF	3-6

maintaining airplane control.

Smoothly apply power toward takeoff power while

		AFM page
	NOTE	
	Once target airspeed and configuration are established,	
	raise pitch attitude to maintain desired target airspeed.	
3	Landing GearUP	3-6
4	Landing LightRETRACT	
5	Flaps5°	3-6
6	Airspeed140 KCAS	3-6
7	FlapsUP	3-6
	(WHEN POSITIVE	
	CLIMB ESTABLISHED)	
8	Cabin Air Selector SwitchRAM OR OFF	3-6
9	Airspeed150 KCAS	3-6
10	Engine Anti-ice SwitchAS REQUIRED	3-6
	ENGINE FIRE	
	If LH or RH engine fire annunciator illuminates:	3-6
1	Condition Lever (failed engine)EMERGENCY	3-6
	STOP	
2	Power Lever (failed engine)TAKEOFF	3-6
	WARNING	
	IDENTIFY FAILED ENGINE BY POWER ASYMMETRY AND/OR FIRE WARNING INDICATOR AND/OR ENGINE INSTRUMENTS. DO NOT RETARD FAILED ENGINE POWER LEVER. PLACE FAILED ENGINE POWER LEVER TO TAKEOFF POSITION DURING THE FEATHERING OF PROPELLER AND LEAVE THERE FOR THE REMAINDER OF THE FLIGHT.	3-6
	CAUTION	
	RUN-CRANK-STOP SWITCH MUST REMAIN IN RUN POSITION. DO NOT MOVE AFFECTED ENGINE POWER LEVER UNTIL PROPELLER IS FEATHERED.	3-7
3	Fire Handle (failed engine)PULL	3-7

4 Engine Shutdown.....ACCOMPLISH

5 Land As Soon As Possible

3-7

		A pa
	AIRSTART	•
	CAUTION	
	ENSURE ENGINE STOPPAGE WAS NOT THE RESULT OF MALFUNCTION WHICH MIGHT MAKE IT DANGEROUS TO ATTEMPT A RESTART.	3
	NOTE	
	Perform engine cooldown if EGT is above 200°C. Windmill the propeller below 5% RPM by placing the condition lever to MIN CRUISE and intermittently depressing the unfeather switch. When EGT is below 200°C or the RPM exceeds 5%, place the condition lever to EMERGENCY STOP.	
1	Airspeed100 TO 180 KCAS	3
	-150 KCAS	
2	RECOMMENDED	;
2	AltitudeBELOW 20,000 FT SRL SystemON	3
-	,	
	NOTE	
4	Engine will not airstart unless SRL is on and operable.	3
4 5	SynchrophaserOFF EGTBELOW 200°C	3
J	(IF FEASIBLE)	
6	Condition LeverMINIMUM CRUISE	3
7	Power LeverHALF INCH	3
	FORWARD	
_	OF FLIGHT IDLE	
8	Start Selector SwitchAIRSTART & SAFE	3
9 10	Ignition SwitchOFF Run-Crank-Stop SwitchRUN	3
	Unfeather SwitchHOLD	3
	TO 30% RPM	
а	At 10%, Engine Start LightILLUMINATES	3
	EGTMONITOR	3
_	(MAXIMUM 770°C)	3
C	If Indicated Combustion (Light Off) Does Not Occur Within 15 Seconds Past 10% RPM,	٥
d	or By 25% RPMABORT START If Accleration Is Slow Above	3
	25%USE FUEL ENRICH SWITCH	
е	If Acceleration Stagnates and FGT Continues to Rise ABORT START	3

st Section 3 Emergency Procedures

AFM page NOTE If ABORT was caused by high EGT, reduce altitude and 3-8 increase airspeed, if possible, before attempting a restart. If ABORT was caused by no combustion, reduce altitude and reduce airspeed, if possible, before attempting a restart. CAUTION DO NOT ALLOW ENGINE TO WINDMILL IN THE 18% TO 3-8 28% RPM RANGE. 3-8 12 Condition Lever......AS REQUIRED 3-8 13 Power Lever......AS REQUIRED 14 Voltammeter (main bus tie check in flight)......CHECK CAUTION IF EITHER VOLTAMMETER INDICATES BATTERY VOLTAGE (22 - 24 VOLTS) INSTEAD OF GENERATOR VOLTAGE (27 - 29.5 VOLTS) THE 200 AMP BUS TIE CIRCUIT BREAKER IS OPEN. IF THE BUS TIE CIRCUIT BREAKER IS OPEN, ALL SYSTEMS WILL BE POWERED NORMALLY ONCE THE SECOND GENERATOR HAS BEEN PLACED BACK ON LINE. HOWEVER, THE SUBSEQUENT LOSS OF AN ENGINE OR GENERATOR WILL CAUSE SOME SYSTEMS TO BE POWERED BY A BATTERY. AFTER LANDING, RESET THE BUS TIE BREAKER PRIOR TO THE NEXT FLIGHT. 15 DC Generator Switch......ON / RESET 3-8 IF NECESSARY 16 Voltammeter......27 TO 29.5 VDC 3-8 17 Ignition Switch......AS REQUIRED 3-8 18 Cabin Air Selector Switch.....BOTH 3-8

19 Synchrophaser......AS REQUIRED

		AFM	
		page	
	FUEL BOOST PUMP FAILURE	3-8	
1	L or R boost pump fail annunciator illuminated: Fuel Boost Pump	3-8	
- 1	Circuit Breaker (faulty side)DISENGAGE	3-0	
2	Land As Soon As Possible	3-8	
_	<u> </u>		
	NOTE		
	Main wing tank unusable fuel is 60 pounds with one boost pump failed.	3-8	
	SMOKE AND FUME ELIMINATION		
	Cabin or cockpit smoke or odor, known or unknown	3-8-1/-2	
	source:		
1	Oxygen Outlet ValveOPEN	3-8-1/-2	
2	Oxygen MasksDON AND USE	3-8-1/-2	
	Known source:	3-8-1/-2	
1	Faulty Circuit or SystemSWITCH OFF AND	3-8-1/	
	DISENGAGE	3-8-2	
	ASSOCIATED		
	CIRCUIT BREAKERS	3-8-1/-2	
1	Unknown source: Cockpit and Cabin Room Light	3-0-1/-2	
'	SwitchesON	3-8-1/-2	
2	Master SwitchEMERGENCY	3-8-1/-2	
WARNING			
	CABIN WILL DEPRESSURIZE. AT A MINIMUM ALL	3-8-1/-2	
	INSTRUMENTS EXCEPT ENGINE TACHOMETERS,		
	COPILOT ALTIMETER, COPILOT AIRSPEED, COPILOT TURN AND BANK, COPILOT ATTITUDE INDICATOR		
	AND MAGNETIC COMPASS WILL BE INOPERATIVE.		
	ALL LIGHTS EXCEPT COCKPIT AND CABIN ROOM		
	LIGHTS, COPILOTS TURN AND BANK LIGHTS (S/N		
	1518SA AND SUBSEQUENT) AND ENGINE FIRE		
	WARNING LIGHTS WILL BE INOPERATIVE. ALL		
	RADIOS WILL BE INOPERATIVE. PARTIAL PANEL FLIGHT AND LET DOWN WITH NO COMMUNICATIONS		
	TO A VFR LANDING WILL BE REQUIRED UNLESS		
	NECESSARY SYSTEMS CAN BE RESTORED.		
	IF ELECTRICAL POWER CANNOT BE RESTORED, A		
	NO FLAP LANDING WITH EMERGENCY GEAR		
	EXTENSION WILL BE NECESSARY.		
	Battery SwitchesBOTH ISOLATE	3-8-1/-2	
	DC Generator SwitchesBOTH OFF	3-8-1/-2	
5	Inverter SwitchOFF	3-8-1/-2	

		AFM
		page
6	All Switches and Circuit	
	BreakersOFF OR	3-8-1/
	DISENGAGE	3-8-2
7	Master SwitchNORMAL	3-8-1/-2
8	Battery, DC Generator	3-8-1/
	Switches and Inverter SwitchON	3-8-2
	If smoke or odor stops :	
9	Switches and Circuits Breakers	
	for Equipment Essential to the	3-8-1/
	Particular Phase of FlightON OR ENGAGE	3-8-2
	ONE AT A TIME	
	(ATTEMPT TO	
	ISOLATE CIRCUIT)	
	· ·	
	CAUTION	
	GIVE EACH CIRCUIT OR SYSTEM TIME TO SMOKE OR MALFUNCTION AGAIN BEFORE GOING TO NEXT CIRCUIT OR SYSTEM. IF FIRE/SMOKE STARTS AGAIN, DISABLE THE CIRCUIT IMMEDIATELY, THEN CONTINUE TO ISOLATE ANY OTHER CIRCUITS OR SYSTEMS.	3-8-1/-2
	WARNING	
	ENSURE THE OXYGEN OUTLET VALVE IS CLOSED WHEN USE OF OXYGEN MASKS IS NO LONGER REQUIRED.	3-9
	If smoke or odor increases:	3-9
10	Cabin Air Selector SwitchRAM	3-9
11	Battery, DC Generator, and	
	Inverter SwitchesOFF	3-9
12	Manual Pressure Control ValveFULL DECREASE	3-9
	Execute High Speed Descent	
	to Low Altitude If Necessary	3-9
14	Pilot's Communication DoorOPEN	3-9
15	Emergency ExitOPEN	3-9
	(IF FEASIBLE)	3-9
	If smoke or odor persists:	3-9
40	1 14 0 4 5	2.0

16 Land As Soon As Possible

		AFM
		page
	LANDING GEAR NOT FULLY RETRACTED	
	If UNSAFE light does not extinguish within approximately 17 seconds after placing the Landing Gear Switch to UP, or if the light illuminates during flight, recycle the system in accordance with the following procedures	3-9
1	Airspeed	3-9
2	Flaps5°	3-9
3	Landing GearDOWN	3-9
	If green lights indicate normal, but unsafe light indicates abnormal:	3-9
4	Land As Soon As Practical	3-9
	If green lights indicate abnormal, and unsafe light indicates abnormal:	3-9
4	Landing Gear Emergency	
	ExtentionACCOMPLISH	3-9
5	Land As Soon As Practical	3-9
	If green lights and unsafe light indicate normal:	3-9
4	Landing GearUP	3-9
5	Green Lights and Unsafe LightCHECK NORMAL INDICATION	3-9
	NOTE	
	If the UNSAFE light is illuminated, place Landing Gear Switch DOWN and proceed according to light indications as stated in Step 3.	3-10
	LANDING GEAR EMERGENCY EXTENSION	
1	Airspeed130 KCAS MAXIMUM	3-10
2	Flaps5°	3-10
3	Landing Gear Circuit Breakers	
	(control, landing gear, door)PULL	3-10
4	Landing Gear Position	
	Indicator Circuit BreakerENGAGED	3-10
5	Landing GearDOWN	3-10
6	Landing Gear Emergency Handle PLILL AND PLIMP	3-10

7	Landing Gear LightCHECK If indicator lights are inoperative, continue to pump until pump handle cannot be moved	AFM page 3-10 3-10
	NOTE	
	After pulling Landing Gear Emergency Handle, main landing gear doors unlatch and cannot be closed again in the air. If indicator lights are operational, the RED UNSAFE light will illuminate and will remain illuminated because the gear doors are open. Do not attempt to electrically retract landing gear after Emergency Extension. After landing, the main landing gear lock lever mechanism and the clutch for the main landing gear forward door actuating mechanism must be reset prior to flight.	3-10
1	OxygenAS REQUIRED	3-10
2	Cabin Pressurization ControlCHECK	3-10
_	Check pressure controller. If incorrectly set, adjust	3-10
	controller to proper altitude.	
3	Manual Pressure Control ValveFULL INCREASE	3-10
4	Cabin Air Selector SwitchBOTH OR	3-10
	OPERATING ENGINE	
	If pressure remains low :	3-10
5	Descend to Alltitude Not Requiring Oxygen	3-10
	If cabin pressure low annunciator remains illuminated,	
	descend aircraft to minimum safe altitude or 10,000', whichever is higher.	
	Willonever is Higher.	
	AIRCOND SYS FAIL ANNUNCIATOR ILLUMINATED	
1	Cabin Air Selector SwitchRH	3-11
2	Cabin Pressurization ControlCHECK	3-11
3	OxygenAS REQUIRED	3-11
4	Descend to Altitude Not	0.44
	Requiring OxygenHIGH OR LOW	3-11
	SPEED DESCENT Descent to higher of Minimum Safe Altitude or 10,000 feet,	
	if possible, if the cabin does not maintain sufficient	
	pressurization, or if the air cond sys fail light remains	
	illuminated.	
	If air conditioning system fail annunciator remains	
_	illuminated:	0 11
5	Cabin Air Selector SwitchRAM	3-11

		AFN
	DEFOG OVER TEMP ANNUNCIATOR ILLUMINATED	page
1	Defogging Selector ValveFULL DEC	3-11
2	Emergency DescentAS SOON	3-11
	AS POSSIBLE	
	To prepare for depressurization, descent aircraft to	
	minimum safe altitude or 10,000', whichever is higher.	
3	Manual Pressure Control ValveFULL DEC	3-11
4	Cabin Air Selector SwitchRAM	3-11
	EMERGENCY DESCENT	
	High Speed Descent	3-1
1	Oxygen Mask / ValveDON / OPEN	
	Declare emergency with air traffic control	
2	Power LeversFLIGHT IDLE	3-1
3	Condition LeversTAKEOFF LAND	3-1
4	AirspeedVMO/MMO	3-1
	Low Speed descent Oxygen Mask / ValveDON / OPEN	3-1
1		
	Declare emergency with air traffic control	
2	Power LeversFLIGHT IDLE	3-1
3	Condition LeversTAKEOFF LAND	3-1
4	Landing GearDOWN	3-1
	(BELOW 175 KCAS)	
	Observe 175 KCAS V _{LO} /V _{LE}	
5	Flaps	3-1
	(BELOW 120 KCAS)	0.4
6	AirspeedVFE (155	3-1
	KCAS MAXIMIM)	

			AF
	BATTERY OVERHI	= AT	pa
	Battery temperature 120° annunc		
	If on ground :	DO NOT TAKEOFF AND MONITOR	3-1
	If in flight:		
1	Battery Temperature	MONITOR	3-1
	If temperature reaches 140° F:		3-1
2	Battery Isolate Switch	ISOLATE	3-1
	Battery overtemp annunciator (Rilluminates :	ED 150°F Light)	3-1
	If on ground :	ABORT	3-1
	If in flight:		3-1
3	Battery Isolate Switch	ISOLATE	3-1
	NOTE		
	If both batteries have overtemped a disconnected, operate on generator		3-1
	If temperature continues to rise a goes full scale :	fter isolating and	3-1
4	Land As Soon As Possible		3-1
	If battery has cooled below 120°F terminal area:	approaching	3-1
5	Battery Isolate Switch	LANDING TO PREVENT POWER LOSS AT	3 -1
	If battery temperature 120° annu	LOW RPM)	3-
	exercise caution. Notify tower of landing:		J
6	Battery Isolate Switch	ISOLATE	3-
-	•	~~~	

CAUTION

IF BATTERY TEMPERATURE REACHED 150° F, EITHER DURING START OR IN FLIGHT, BATTERY MUST BE REMOVED FOR BENCH TEST AND INSPECTION PRIOR TO NEXT FLIGHT.

		AFM page
	L OR R DC GEN OUT ANNUNCIATOR ILLUMINATED	page
1		
	Generator Field Circuit	
	Breakers (affected side)CHECK	3-12
	IF OUT, RESET	
	If light remains illuminated:	3-12
2	DC Generator Switch	
	(affected side)RESET, THEN ON	3-12
	If light is not extinguished:	3-12
3	DC Generator Switch(affected	
	side)OFF	3-12
4	Voltammeters	
	(main bus tie check in flight)CHECK	3-13
	Both voltmeters should indicate between 27 and 29.5 volts.	3-13
	Amperage on the side of the operating engine should be	
	less than 200 AMPS (175 AMPS if above 28,000 feet).	
	CAUTION	
	IF EITHER VOLTAMMETER INDICATES BATTERY VOLTAGE (22 - 24 VOLTS) INSTEAD OF GENERATOR VOLTAGE (27 - 29.5 VOLTS) THE 200 AMP BUS TIE CIRCUIT BREAKER IS OPEN AND THE FOLLOWING EQUIPMENT IS POWERED BY BATTERY ONLY. REDUCE LOADS ON THE AFFECTED BUS TO SAVE BATTERY FOR LANDING.	3-13
	LEFT DC GENERATOR INOPERATIVE, 200 AMP BUS TIE CIRCUIT BREAKER OPEN, NO. 1 BATTERY POWERS a. MAIN INVERTER b. LH WINDSHIELD HEAT c. LH RADIO MASTER (AUTOPILOT, COMM 1, PHONE AUDIO, RNAV, ATC 1, ADF 1, VOR 1, DME 2)	
	RIGHT DC GENERATOR INOPERATIVE, 200 AMP BUS TIE CIRCUIT BREAKER OPEN, NO. 2 BATTERY POWERS a. STANDBY INVERTER b. RH WINDSHIELD HEAT c. LANDING GEAR (EXCEPT INDICATOR LIGHTS) d. RH RADIO MASTER (COMM 2, SPEAKER AUDIO, RADAR, ATC 2, ADF 2, DME 1, VOR 2)	
5	DC Generator Load (operating engine)REDUCE	3-13

(IF NECESSARY)

Mitsubishi MU-2B-60

			AFM
	INVERTER FAIL ANNUNCIATOR	R CYCLES ON/OFF	page
	Applies to S/N 700SA, 731SA Thi		3-14
1		OFF	3-14
	WARNI	NG	
	IF INVT FAIL ANNUNCIATOR CYCIMMEDIATELY PLACE INVERTER POSITION.		3-14
	CAUTIO	ON .	
	POWER WILL BE LOST TO THE EQUIPMENT:	FOLLOWING	3-14
	a.MAIN FUEL QUANTITY INDICA b.LH AND RH ENGINE FUEL PRE c.TRIM POSITION INDICATOR AN INSTRUMENT LIGHTING (5 VOL- d.AC POWER TO VARIOUS FLIG PILOT'S ADI AND HSI, NAVS, RAI e.LH AND RH ENGINE OIL PRESS	SSURE INDICATORS ND INTEGRAL I LIGHTING) HT INSTRUMENTS (i.e. DAR, AUTOPILOT)	
	THE FOLLOWING ITEMS WILL R a.BOTH VHF COMMUNICATION I b.NAV AUDIO c.ADF AUDIO d.ALL DC ONLY SYSTEMS		
2	Fuel Quantity With the main fuel quantity indicate approximate fuel quantity remainin accordingly.	or inoperative, calculate	3-14 3-14
3	Engine Instruments (operating		
4	engine) Alternate Flight Instruments NOTE	USE	3-14 3-14 3-14
	The following equipment list gives and its alternate:	the primary instrument	
	PRIMARY	ALTERNATE	
	a. F/D ADI	Copilot Vacuum	
	b. HSI's	Attitude Gyro Magnetic Compass (Center Windshield	
	c. Pilot Altimeter	Post) Copilot Barometric Altimeter	
5	d. RMI's Land As Soon As Possible	None	3-14

AFM

page 3-15/3-16 **INVERTER FAIL ANNUNCIATOR ILLUMINATED** If aircraft is not equipped with a 6 bus AC system, skip steps 3 and 4: 6 AC bus refers to aircraft 799SA, 1501SA and up, and aircraft modified by Service Recommendation 034/24-002. 3-15/3-16 1 Inverter Switch......SELECT OTHER INVERTER 2 Affected Inverter Power and Control Circuit Breakers.....PULL 3-15/3-16 If main inverter failed (6 AC bus): 3a LH 115VAC Power Circuit Breaker.....PULL 3b LH 26VAC Power Circuit Breaker.....PULL If standby inverter failed (6 AC bus): 4a RH 115VAC Power Circuit Breaker.....PULL 4b RH 26VAC Power Circuit Breaker.....PULL If inverter fail annunciator illuminated after selecting 3-15/3-16 other inverter: 5 Inverter Switch......OFF 3-15/3-16 6 Power and Control Circuit Breakers (affected side).....PULL 3-15/3-16 CAUTION POWER WILL BE LOST TO THE FOLLOWING 3-15/3-16 **EQUIPMENT:** a. MAIN FUEL QUANTITY INDICATOR b. LH AND RH ENGINE FUEL PRESSURE INDICATORS c. TRIM POSITION INDICATOR AND INTEGRAL INSTRUMENT LIGHTING (5 VOLT LIGHTING) d. AC POWER TO VARIOUS FLIGHT INSTRUMENTS (i.e. PILOT'S ADI AND HSI, NAVS, RADAR, AUTOPILOT) e. LH AND RH ENGINE OIL PRESSURE INDICATORS THE FOLLOWING ITEMS WILL REMAIN OPERATIVE: a. BOTH VHF COMMUNICATION RADIOS b. NAV AUDIO c. ADF AUDIO d. ALL DC ONLY SYSTEMS With the main fuel quantity indicator inoperative, calculate approximate fuel quantity remaining for flight and plan accordingly. 8 Engine Instruments (operating engine).....MONITOR 3-15/3-16 10 Land As Soon As Possible

AFM page 3-15/3-16 9 Alternate Flight Instruments......USE NOTE The following equipment list gives the primary instrument and its alternate: **PRIMARY ALTERNATE** a. F/D ADI Copilot Vacuum Attitude Gyro b. HSI's Magnetic Compass (Center Windshield Post) Copilot Barometric c. Pilot Altimeter Altimeter d. RMI's None

L FEEDER OUT ANNUNCIATOR ILLUMINATED 1 Inverter Switch.....STANDBY 3-17 2 LH Feeder Control Circuit Breaker.....CHECK, RESET 3-17 CAUTION 3-17 IF RESET IS UNSUCCESSFUL, POWER WILL BE LOST TO THE FOLLOWING EQUIPMENT: a. MAIN INVERTER b. LH WINDSHIELD HEAT c. LH RADIO MASTER (AUTOPILOT, COMM 1, AUDIO PHONE, RNAV, ATC 1, ADF 1, VOR 1, DME 2) 3-17 3 50AMP Bus Tie Circuit Breaker......CHECK, RESET If reset is unsuccessful, reduce load on RH Bus and 3-17 reset CB:

NOTE

The landing gear will operate normally if the BUS TIE circuit breaker remains engaged.

3-15/3-16

		AFM
		page
4	Electrical LoadMONITOR	3-17
	Reduce to essential items as required and limit equipment operation to remain within 50 AMP capacity of bus tie circuit breaker	3-17
	CAUTION	
	IF BOTH THE BUS TIE AND LH FEED CONT CIRCUIT BREAKERS REMAIN OPEN:	3-17
	a.LANDING GEAR MUST BE EXTENDED MANUALLY	
	USING LANDING GEAR EMERGENCY EXTENSION	
	PROCEDURE.	
	b.LANDING GEAR POSITION INDICATOR LIGHTS	
	WILL BE INOPERATIVE.	

R FEEDER OUT ANNUNCIATOR ILLUMINATED

1 Inverter Switch......MAIN 3-18

2 RH Feeder Control Circuit

Breaker......CHECK, RESET 3-18

CAUTION

IF RESET IS UNSUCCESSFUL, THE LANDING GEAR MUST BE EXTENDED MANUALLY USING LANDING GEAR EMERGENCY EXTENSION PROCEDURE AND POWER WILL BE LOST TO THE FOLLOWING EQUIPMENT:

- a. STANDBY INVERTER
- b. RH WINDSHIELD HEAT
- c. LANDING GEAR (EXCEPT INDICATOR LIGHTS)
- d. RH RADIO MASTER (COMM 2, AUDIO SPEAKER, RADAR, ATC 2, ADF 2, DME 1, VOR 2)
- 3 50AMP Bus Tie Circuit Breaker.....CHECK, RESET

 If reset is unsuccessful, reduce load on LH Bus and
 reset CB:

 3-18

NOTE

The cabin will remain pressurized and the flaps will operate normally if the BUS TIE circuit breaker remains engaged.

Section 3 Emergency Procedures

3-18

3-18

4 Electrical Load MONITOR 3-18
Reduce to essential items as required and limit equipment operation to remain within 50 AMP capacity of bus tie circuit breaker

WARNING

THE CABIN WILL DEPRESSURIZE IF BOTH THE BUS TIE AND THE RH FEEDER CONT CIRCUIT BREAKERS REMAIN OPEN.

CAUTION

IF BOTH THE BUS TIE AND RH FEEDER CONT CIRCUIT BREAKERS REMAIN OPEN, FLAPS WILL BE INOPERATIVE AND FIXED IN THEIR POSITION AT TIME OF POWER FAILURE.

PITCH TRIM RUNAWAY

An unscheduled trim input or continuation of elevator trim movement will be indicated by movement of the elevator manual trim wheel and possible illumination of the trim up or trim down annunciator light on the autopilot control head. Detail procedure is refered to an appropriate AFM supplement.

1 Autopilot/Trim Disconnect

2 LH Radio Master Switch......OFF
This will remove power from the electric trim and allow
manual trim without pressing the trim Autopilot disconnect
switch.

 Pilot Checklist Marquise

Mitsubishi Pilot Ch MU-2B-60 Marq Emergency & Abnormal

EMERGENCY

MU-2B-60 EMERGENCY AND ABNORMAL PROCEDURES TABLE OF CONTENTS

	ENGINE FAILURE PRIOR TO LIFTOFF	E-1
	ENGINE FAILURE AFTER	E-1
	LIFTOFF- CONTINUED	
	CLIMB NOT POSSIBLE	
	ENGINE FAILURE AFTER	E-1
	LIFTOFF - CONTINUED	
	CLIMB	
	BETA LIGHT ON IN FLIGHT	E-2
	AUTOIGNITION RELIGHT	E-2
ENGINE	FAILURE (applicable to	
	airplanes equipped with	
	auto-ignition system)	
	ENGINE SHUTDOWN	E-2
	DRIFTDOWN	E-3
	SINGLE ENGINE LANDING	E-3
	SINGLE ENGINE GO-	E-5
	AROUND	
	ENGINE FIRE	E-5
	AIRSTART	E-5
	SRL SYSTEM FAILURE	A-1
	FUEL BOOST PUMP	E-6
	FAILURE	
	FUEL PRESSURE DROP	A-1
	TIP AUTO FUEL TRANSFER	A-1
	FAILURE- TIP MANUAL	
	OUTER AUTO FUEL	A-2
FUEL	TRANSFER FAILURE –	
	OUTER MANUAL	
	OUTER FUEL TANK	A-2
	TRANSFER PUMP FAILURE	
	(except S/N 700SA)	
	SMOKE AND FUMÉ	E-7
	ELIMINATION	
	BATTERY OVERHEAT	E-10
ELECTRICAL /	L OR R DC GEN OUT	E-11
ELECTRICAL/ SMOKE	ANNUNCIATOR	
SIVIUNE	ILLUMINATES	
	INVERTER FAIL	E-12
	ANNUNCIATOR CYCLES	
	ON/OFF	
SEE NEXT PAGE		

Mitsubishi	Pilot Checklist E	Emergency	
MU-2B-60	Marquise &	Abnormal	
	INVERTER FAIL ANNUNCIATOR ILLUMINATES	E-12	
ELECTRICAL/ SMOKE	L FEEDER OUT ANNUNCIATOR ILLUMINATES	E-13	
	R FEEDER OUT ANNUNCIATOR ILLUMINATES	E-13	
	LANDING GEAR NOT	FULLY E-8	
LANDING GEAR	RETRACTED LANDING GEAR	E-8	
	EMERGENCY EXTENS		
	CABIN PRESS LOW	E-9	
AID	ANUNCIATOR		
AIR CONDITIONING/	ILLUMINATED AIR COND SYS FAIL	E-9	
PRESSURIZATION		E-9	
PHESSONIZATION	ILLUMINATED		
	EMERGENCY DESCEN	IT E-10	
	PITCH TRIM RUNAWA		
	TRIM AILERON TAB	A-3	
	FAILURE	AU	
FLIGHT	TRIM AILERON TAB	A-3	
CONTROLS	RUNAWAY		
	NO FLAP APPROACH	AND A-4	
	LANDING		
	STATIC SYSTEM FAIL	JRE A-3	
	HEATED WINDSHIELD	A-2	
	OVER TEMP ILLUMINA	TED	
ICE PROTECTION	INADVERTANT ICING	A-6	
	ENCOUNTER		
	SEVERE ICING	A-6	
	ENCOUNTER		
	DEFOG OVER TEMP	E-9	
	ANNUNCIATOR		
	ILLUMINATED FAIL		
	P T/B PWR FAIL ANNUNCIATOR	A-3	
MISCELLANEOUS	ILLUMINATED		
WIISCLLLANLOUS	CP T/B PWR FAIL	A-3	
	ANNUNCIATOR	A-3	
	ILLUMINATED		
	EMERGENCY EXIT DO	OR A-5	
	OPERATION		

Mitsubishi Pilot Checklist MU-2B-60 Marquise

Emergency & Abnormal

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Page No.	Revision No.
Introduction INTRO-1 to INTRO-10	С
Normal Procedures Table of Contents N-TOC-1 to N-TOC-4	С
Normal Procedures N-1 to N-20	С
Emergency Procedures Table of Contents E-TOC-1 to E-TOC-4	С
Emergency Procedures E-1 to E-14	С
Abnormal Procedures Table of Contents A-TOC-1 to A-TOC-4	С
Abnormal Procedures A-1 to A-6	С
Expanded Normal Procedures NX-1 to NX-60	С
Expanded Emergency Procedures EX-1 to EX-26	С
Expanded Abnormal Procedures AX-1 to AX-12	С
Performance Table of Contents P-TOC-1 to P-TOC-2	С
Performance P-1 to P-12	С

MU-2 CHECKLIST

This document is an abbreviation of the procedures contained in Section 3 (Emergency Procedures), Section 4 (Abnormal Procedures), and Section 5 (Normal Procedures) of the FAA Approved Airplane Flight Manual (AFM). It is provided as an aid to cockpit management. The checklist consists of an abbreviated checklist and an expanded checklist. In the abbreviated checklist, applicable warnings, cautions and notes have been omitted for brevity. Also, detailed procedures for accomplishing the checklist items are not included. Consequently, operators using the abbreviated checklist must be fully familiar with and operate in accordance with the official applicable AFM. The expanded checklist includes most but not all warnings, cautions and notes, as well as tips for accomplishing the various procedures. Operators should be thoroughly familiar with both the expanded checklist and the applicable procedures from the AFM.

The abbreviated and expanded checklists are subdivided into a normal procedures section, an abnormal procedures section, and an emergency procedures section.

These checklists are consistent with known configurations of the airplane as originally delivered, or as later modified and incorporated into the AFM by MHI. However, the operator must review these checklists to ensure that any modifications installed in the operator's specific aircraft after original delivery are properly incorporated. MHI assumes no responsibility for the incorporation of procedures for after market installations.

When revisions to Sections 3, 4, or 5 of the AFM are incorporated into the AFM, MHIA will provide revisions to this checklist to all operators subscribing to the revision service for the checklist. The checklists must be updated by the operator accordingly.

For normal procedures, checklist items can (and in most cases should) be accomplished before the checklist is executed. This means that the pilot can and should accomplish his functions as circumstances and good judgment dictate. The checklist then becomes verification that the items have not been forgotten. The Normal Procedures checklist has been designed as a "check-list" rather than a "do-list."

Some items on the checklists have optional positions for proper compliance, such as flaps on the takeoff checklist. Where a response of "AS REQUIRED" is listed on the checklist, the pilot should state the condition (or position) of the item involved (such as "on", "closed", "20 degrees", "guard down", etc.)

A normal procedures checklist typically should not be started until sufficient time and attention can be devoted to its expeditious completion. Groupings have been selected so that the reading can be accomplished quickly with minimal interruptions.

In Section 3 (Emergency Procedures), some procedures have steps which are highlighted. The operator would be expected to comply with those steps by memory in the event of an actual malfunction. Otherwise, good cockpit discipline would require the operator to open and refer to the Emergency or Abnormal Checklist during the execution of the applicable procedure. Even with the highlighted items, there will generally be no need to hurry the procedure.

Emphasis should be placed on accurately, rather than rapidly, accomplishing the procedure.

There are some procedures in the AFM which do not lend themselves to a checklist format, but which nevertheless must be followed when circumstances dictate. Examples would include the normal operation of all systems such as the autopilot or anti-icing systems and the various climb and cruise profiles and procedures. Operators are expected to be familiar with all systems and procedures contained in the AFM and know when and how to use them regardless of whether or not a checklist has been published.

When accomplishing these checklists, operators must always be aware that their first and foremost responsibility is to maintain control of the airplane. Primary attention should be given to airspeed and altitude control. Situational awareness must also be constantly maintained. It is essential for the operator to always place the airplane at appropriate altitudes and airspeeds for the current and forecast conditions. While many maneuvers contained in the checklists will specify airspeeds at certain points in the procedure, neither the presence nor the absence of such specifications in the checklists in any way relieves the operator of the responsibility to control the airplane at all times. Also, steps in the various AFM procedures which should be accomplished routinely by a competent operator throughout a flight, such as "engine instruments, monitor" or "power... set as required," are typically removed from the checklists. Again, neither the presence nor the absence of such specifications in the checklists in any way relieves the operator of the responsibility to accomplish those various tasks.

INTRODUCTION TO MU-2B-60 TAKEOFF CLIMB PERFORMANCE CHARTS

Engine failure during takeoff is an event that the pilot must be prepared for when planning a flight for any aircraft. Pilot actions depend on where in the takeoff the engine failure is recognized. For an engine failure prior to liftoff, the decision must be to abort and stop straight ahead. For an engine failure after liftoff, the decision will depend on the climb capability of the airplane at the takeoff configuration, weight, altitude, and temperature.

To aid the pilot in making a decision to continue or abort a takeoff in event of an engine failure immediately after liftoff, climb performance charts have been developed. Two charts are presented for each takeoff flap setting as a function of altitude, temperature and weight. The first presents the rate of climb capability for the airplane with gear fully retracted and at a speed of V_{YSE} . The second presents the maximum weight for positive rate of climb with the gear down at the V_{50FT} speed. These data are based on achieving takeoff power per the power assurance charts in the Airplane Flight Manual with the bleed air selector off.

It is suggested that the pilot not make a takeoff where the rate of climb chart at the selected flap position indicates a single engine climb capability of negative value. An off-load in weight and/or waiting for a lower ambient temperature should improve the residual climb capability.

Acceleration and climb capability of the MU-2B-60 is very high with both engines producing takeoff power. Therefore, the airplane usually transits the critical low speed/low altitude environment quickly, and it is in the

pilot's best interest to accelerate as quickly as possible towards V_{YSE} . These performance charts are intended to inform the pilot of the climb capability in this critical area immediately after liftoff. There are two conditions for engine failure that are addressed with these performance charts:

- If an engine failure is recognized immediately after liftoff, with the gear still extended, a chart presents the maximum weight for positive climb rate. If the takeoff weight exceeds this weight, a landing straight ahead should be made. The decision to abort immediately after liftoff can be made in the pilot's pre-flight planning.
- 2) If an engine failure is recognized after an altitude between 75 ft and 100 ft AGL has been attained with the gear retracting, and the appropriate rate of climb chart indicates an adequate positive rate of climb, the takeoff may be continued (obstacle clearance should also be considered).

Flight tests have demonstrated that a takeoff through 50 ft AGL and subsequent land-back requires approximately 7,000 ft of runway at sea level and moderate weights. High density altitudes will increase this requirement. A land-back, even with some damage to the airplane, is preferable to attempting to continue a takeoff with low or negative climb capability.

Flight tests have also shown that the airplane can be successfully accelerated through the gear and flap retraction sequence if an engine failure is recognized after an altitude between 75 ft and 100 ft AGL is achieved if the airplane has residual climb capability as determined from the rate of climb chart presented in this section.

As with any in flight emergency, the pilot's number one job is to maintain control of the airplane. The decision point to abort or continue the takeoff should be part of the pilot's preflight planning routine, as should be the decision not to attempt the takeoff where the rate of climb chart at the selected flap position indicates a single engine climb capability of negative value.

	PREFLIGHT CHECK (COCKPI	T and CABIN)
1	Oxygen Cylinder	
2	Oxygen Outlet Valve and	
	Gauge (copilot's side panel)	OPEN, CHECK
3	Emergency Gear Extension	
	Handle	DOWN AND
		SAFETIED
4	Landing Gear Switch	
5	Parking Brake	
6	Left Switch Panel	
7	Static Source Select	
		SOURCE
8	Other Switches	
9	Battery Key Switch	
	Battery Temperature Warning	
	Main Bus Tie (on ground)	
	Inverter Switch	
13	Control Lock	
	E	STOWED
	Fuel	
	Instrument Panel	
	Center Pedestal	
1 /	Flaps	TAKEOFF
10	Trim	_
	Right Switch Panel	
	Overhead Switch Panel	
	Warning and Indicator Lights	
_ '	vvarning and indicator Lights	(SRL FAILED
		ANNUNCIATORS
		ILLUMINATED)
22	Inverter Switch	•
	Battery Key Switch	
	Fire Extinguisher	
	Publications & Documents	
	Load and Baggage	
	Emergency Exit Door	
	Seat Backs	
29	Table	STOWED AND
		COVERED

PREFLIGHT CHECK (EXTERIOR)			
(1)	LH WING TRAILING EDGE		
1 2			
	TurbineCHECK		
4 (2)	Static DischargerCHECK LH WING TIP TANK, LEADING EDGE		
(2)	AND NACELLE		
1	General ConditionCHECK		
2	Tip Tank Filler CapCHECK FOR		
	SECURITY		
3	Wing Tip & Taxi LightsCHECK		
4	Wing Tie DownsREMOVED		
5	Ice Inspection Light		
6	Fuel LeakageCHECK		
7	Main/Outer Fuel Tank Filler Caps		
	SECURITY		
8	Main/Outer Fuel Tank Vent		
Ū	Ports		
	OBSTRUCTION		
9	Engine Air IntakeCHECK FOR		
	DAMAGE		
	AND FOREIGN		
	OBJECTS		
10	Engine Air Intake Drain Valve		
	(Applicable to S/N 1535SA		
	and subsequent)PRESS; NOTE		
	ANY EXCESSIVE FLUID DRAINAGE		
11	Nacelle/Doors and LatchesGENERAL		
	CONDITION		
	AND LATCHES		
	SECURED		
12	Oil LevelCHECK (BETWEEN		
	FULL AND ADD);		
	CAP SECURED		
13	Nacelle Door (Oil Access)LOCKED		
	Oil LeakageCHECK		
15	Oil Cooler Inlet Anti-icing BootsCHECK FOR		
	TEARS		
	AND ABRASIONS		

16	Propeller	CHECK FOR
		FLAT PITCH AND
		FREE ROTATION
		(NORMAL
		DIRECTION
		OF ROTATION)
17	De-icing Boots	
		FOR TEARS
		AND ABRASIONS
(3)	NOSE AND FORWARD SECTION	
1	LH Forward Main Gear Door	
2	General Condition	
3	Pitot Tube Covers	
4	Pitot-Static Holes	CHECK FOR
		OBSTRUCTION
5	Lower Rotation Beacon	
	(if installed)	
6	Landing Lights	CHECK
7	Nose Landing Gear Strut	CHECK FOR
		EXTENSION
8	Uplimit Mechanism	CHECK
9	Nose Landing Gear Doors	
		SECURITY
	Nose Gear Torque Link	
	Tire Inflation/Condition	
	Static Wire	CHECK
13	Nose Landing Gear Tie Downs	
	and Chocks	
14	Windshield	
		CLEANLINESS
		AND DAMAGE
15	Windshield Wipers	
		AND SECURITY
	RH Forward Main Gear Door	
(4)	RH WING NACELLE, LEADING	EDGE,
	AND TIP TANK	
1		
	Stall Warning Vane	
3	De-icing Boots	
		TEARS
		AND ABRASIONS

Mitsubishi MU-2B-60	Pilot Checklist Marquise	Section 5 Normal Procedures
4 Propeller		CHECK FOR FLAT PITCH AND FREE ROTATION (NORMAL
5 Oil Cooler Inlet An	ti-Icing Boots	DIRECTION OF ROTATION)CHECK FOR TEARS AND ABRASIONS
7 Nacelle Door (Oil	Access)	CHECKLOCKED CHECK (BETWEEN FULL AND ADD);
9 Nacelle/Doors and	I Latches	CAP SECUREDGENERAL CONDITION AND LATCHES
10 Engine Air Intake	Drain Valve	SECURED
11 Engine Air Intake.		
12 Main/Outer Fuel T Ports		CHECK FOR OBSTRUCTION
		CHECK FOR SECURITY
14 Fuel Leakage15 Wing Tie Downs16 Wing Tip & Taxi Li17 Tip Tank Filler Cap	ights	REMOVED
2 Static Discharger.		CHECK
 Tailpipe, EGT Pro Turbine		CHECK

1	RH CENTER AND REAR SECTION General Condition	CHECK
2	Main Landing Gear Door	SECURITY
3	Main Landing Gear Strut and	
	Tire	CHECK FOR
		EXTENSION
		AND PROPER
		INFLATION
4	Main Landing Gear Brake Disc	
	and Wheel Well	CHECK
5	Landing Gear Door Ground	
	Control Switch	NORMAL AND
		SAFETIED
6	Main Landing Gear	REMOVE CHOCKS
7	Ram-Air Intake	CHECK FOR
		OBSTRUCTIONS
8	Aft Fuselage Tie Down	REMOVE
9	Cooling Air Discharge Duct	CHECK FOR
		DAMAGE
		AND FOREIGN
		OBJECTS

(7) EMPENNAGE	
1 General Condition	
2 External Surface Locks	
3 Control Surface and Tabs	
4 Upper Rotating Beacon	
5 Tail Light	
6 Deicing Boots	
	TEARS
	AND ABRASIONS
(8) LH REAR AND CENTER SECTION	INS OF
FUSELAGE	
1 General Condition	
2 Cooling Air Intake	
	DAMAGE
	AND FOREIGN
	OBJECTS
3 External Power Receptacle	
Door	CHECK
4 Battery Vent	
	DAMAGE
	AND FOREIGN
	OBJECTS
5 Main Landing Gear	REMOVE CHOCKS
6 Main Landing Gear Brake Disc	
and Wheel Well	CHECK
7 Main Landing Gear Strut and	
Tire	
	EXTENSION
	AND PROPER
	INFLATION
8 Main Landing Gear Door	
	SECURITY
9 Ejector Exhaust Port	CHECK FOR

OBSTRUCTIONS

	BEFORE STARTING ENG	GINES
1	Passenger Briefing	COMPLETE
2	Seat	
3	Safety Belts and Shoulder	
	Harness	FASTEN
4	Parking Brake	SET
5	Takeoff Data	
6	Circuit Breakers	CHECK
7	Radio Masters	OFF
8	Battery Key Switch	
9	DC Generator Switch	
	Inverter Switch	MAIN OR STBY
11	Cabin & Pilot Communication	
	Door	
	APU	
	Fuel Quantity	
	Cabin Sign, Rotating Beacon	
15	Navigation Light	AS REQUIRED
	STARTING ENGINES	
1	Dattom, Calast Curitals	
•	Ballery Select Switch	AS REQUIRED
2	Battery Select SwitchSRL Switches	AS REQUIRED
	SRL Switches Both Run-Crank-Stop Switches	ON
2	SRL Switches Both Run-Crank-Stop Switches EGT	ON RUN CHECK
2	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requ	ON RUN CHECK
2 3 4	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not required proceed to 6:	ON RUN CHECK <i>ired</i> ,
2 3 4 5	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not required proceed to 6: Feather Valve Check	ONRUNCHECK ired,
2 3 4	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not required proceed to 6: Feather Valve Check Power Levers	ONRUNCHECK ired,ACCOMPLISHALF INCH
2 3 4 5	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not required proceed to 6: Feather Valve Check Power Levers	ONRUNCHECK ired,ACCOMPLISHHALF INCH FORWARD
2 3 4 5 6	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers	ONRUNCHECK ired,ACCOMPLISHHALF INCH FORWARD OF FLIGHT IDLE
2 3 4 5 6	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not required proceed to 6: Feather Valve Check Power Levers Condition Levers	ONRUNCHECK ired,ACCOMPLISHHALF INCH FORWARD OF FLIGHT IDLETAXI
2 3 4 5 6	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch	ONRUNACCOMPLISHACCOMPLISH FORWARD OF FLIGHT IDLETAXIAS REQUIRED
2 3 4 5 6	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not required proceed to 6: Feather Valve Check Power Levers Condition Levers	ONRUNCHECK ired,ACCOMPLISHHALF INCH FORWARD OF FLIGHT IDLETAXIAS REQUIREDAS REQUIRED
2 3 4 5 6	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch Propellers	ONRUNACCOMPLISHACCOMPLISH FORWARD OF FLIGHT IDLETAXIAS REQUIRED ON LOCKS
2 3 4 5 6	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch	ONRUNACCOMPLISHACCOMPLISH FORWARD OF FLIGHT IDLETAXIAS REQUIRED ON LOCKS
2 3 4 5 6 7 8 9	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch Propellers Engine Start / NTS Check If APU start, proceed to 12:	ONRUNACCOMPLISHACCOMPLISH FORWARD OF FLIGHT IDLETAXIAS REQUIRED ON LOCKSACCOMPLISH
2 3 4 5 6 7 8 9 10	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch Propellers Engine Start / NTS Check	ONRUNACCOMPLISHAF INCH FORWARD OF FLIGHT IDLETAXIAS REQUIRED ON LOCKSACCOMPLISHAS REQUIRED
2 3 4 5 6 7 8 9 10	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch Propellers Engine Start / NTS Check If APU start, proceed to 12: Battery Recharge	ONRUNACCOMPLISHAF INCH FORWARD OF FLIGHT IDLETAXIAS REQUIRED ON LOCKSACCOMPLISHAS REQUIRED
2 3 4 5 6 7 8 9 10	SRL Switches Both Run-Crank-Stop Switches EGT If feather valve check is not requiproceed to 6: Feather Valve Check Power Levers Condition Levers Start Selector Switch Propellers Engine Start / NTS Check If APU start, proceed to 12: Battery Recharge	ONRUNACCOMPLISHACCOMPLISHHALF INCH FORWARD OF FLIGHT IDLETAXIAS REQUIRED ON LOCKSACCOMPLISHAS REQUIRED

	AFTER STARTING ENGINES	
1	Engine Instruments	
	If APU start is not required, proceed to	
2	APU[DISCONNECT
3	Generator Switches	
	(main bus tie check)E	
		RH ON
4	Voltammeter	
_	(main bus tie check)	CHECK
5	Generator Switches	OTH ON AND
	(main bus tie check)B	
6	Radio Master Switches	CHECK
7	Battery Select Switch	
8	Fuel Transfer	
9	Start Select Switch	
		AND SAFE
10	Cabin Air	BOTH
	De-ice/Anti-ice System CheckA	
	PITOT AND STATIC ANTI-ICE SYSTEM	1
_	STALL WARNING ANTI-ICE SYSTEM	
_	PROPELLER ANTI-ICE SYSTEM	
d	ENGINE INTAKE AND OIL COOLER AII	RINTAKE
_	ANTI-ICE SYSTEMS	- F N A
	HEATED WINDSHIELD ANTI-ICE SYST WING AND EMPENNAGE DEICE SYST	
'	If overspeed governor check is not re	
	proceed to 13:	.quircu,
12	Overspeed Governor CheckA	S REQUIRED
	Single Red Line (SRL)	
	/Delta PCH	IECK (PROPS
		ON LOCKS)
14	Flaps	SET FOR
		TAKEOFF
	Flight Controls	
	Autopilot	
	Trim Tabs	
	Avionics	
	Start Locks	
	Supplemental NTSAnnunciator Panel &	GHECK
۱ ک	Warning Lights	CLEAR
22	Landing Lights/Taxi LightsA	
	Landing Lights/ Taxi Lights	

PREFLIGHT OPERATION CHECK

ITEM	POWER LEVER	CONDITION LEVER	CHECK ITEMS
LOW SPEED TAXI	GROUND IDLE	TAXI	Engine Speed must be 76.5% - 78.5% RPM BETA RANGE annunciator normally illuminated Oil Pressure minimum 40 psi Fuel Pressure minimum 15 psi No Caution Lights illuminated
HIGH SPEED TAXI	GROUND IDLE	TAKEOFF LAND	Engine Speed must be 96% - 97% RPM BETA RANGE annunciator must be illuminated
REVERSE	REVERSE	TAKEOFF LAND	Engine Speed must be above 94.5% RPM BETA RANGE annunciator must be illuminated
TAKEOFF	TAKEOFF POWER POSITION	TAKEOFF LAND	Engine Speed must be 99.5% - 101% RPM Oil Pressure must be 70 - 120 psi BETA RANGE annunciator must be extinguished

	TAXI				
1	Brakes & Steering	CHECK			
2	Flight Instruments	CHECK			
3	Power	SET AS REQUIRED			
		(MAINTAIN			
		MINIMUM			
		76.5% RPM)			

	BEFORE TAKEOFF				
1	Lights	AS REQUIRED			
2	De-ice & Anti-ice	AS REQUIRED			
3	Transponder	ON			
4	Radar	AS REQUIRED			
5	Cabin Air	AS REQUIRED			
6	Flaps	SET FOR			
		TAKEOFF			
	Condition Levers				
8	Friction	SET			
9	Ignition Switches	AS REQUIRED			
10	Trim Tabs	SET			
11	Engine Instruments	CHECK			
12	Annunciator Panel &				
	Warning Lights	CLEAR			
13	Heading				

TAKEOFF SPEEDS

FLAPS 5°	V_R	V_{50}	\mathbf{V}_{XSE}	\mathbf{V}_{YSE}
11,575 LBS	109	120	130	140
11,000 LBS	106	120	130	140
10,000 LBS	101	120	130	140
9,000 LBS	100	120	130	140
FLAPS 20°				
11,575 LBS	105	113	125	135
11,000 LBS	103	113	125	135
10,000 LBS	100	113	125	135
9,000 LBS	100	113	125	135

	AFTER TAKEOFF			
1	Landing Gear	UP		
2	Landing Light	RETRACT		
3	Flaps	RETRACT ON		
		SCHEDULE		
4	Airspeed (normal climb)	155 KCAS		
	Power			
		001111110000		
6	Cabin Air	BOTH		
7	Ignition Switches	AS REQUIRED		
8	De-ice & Anti-ice	AS REQUIRED		
		(ADD 10% KCAS		
		IN ICING)		
9	Cabin Pressurization	SET		
10	Engine Instruments	CHECK		
	Synchrophaser			

VISIBLE MOISTURE ENCOUNTERS

CAUTION

DURING ALL OPERATIONS IN VISIBLE MOISTURE, CAREFULLY MONITOR EGT. DO NOT ALLOW EGT TO EXCEED 650°C.

FLIGHT IN ICING CONDITIONS

WARNING

PILOTS SHOULD BE AWARE THAT OPERATION OF THE AUTOPILOT'S VERTICAL MODES MAY RESULT IN AN UNSAFE AIRSPEED IF ICE ACCUMULATES ON THE AIRPLANE. IN ORDER TO MINIMIZE ICE ACCUMULATIONS ON UNPROTECTED LOWER SURFACES, MAINTAIN A MINIMUM SPEED OF 180 KIAS DURING OPERATIONS IN SUSTAINED CRUISE IN ICING CONDITIONS.

IF UNABLE TO MAINTAIN 180 KIAS AT MAXIMUM CONTINUOUS POWER, A CHANGE OF ALTITUDE AND/OR COURSE MAY BE NECESSARY TO MAINTAIN MINIMUM AIRSPEED AND/OR EXIT THE ICING CONDITIONS.

DURING LANDING, DO NOT SELECT 40 ° FLAPS WHEN OPERATING IN ICING CONDITIONS.

CLIMB (18000') / CRUISE			
1	Taxi Lights	OFF	
2	Cabin Sign	AS REQUIRED	
3	Altimeters	SET	
4	Cabin Pressurization	CHECK	
5	Fuel Balance and Transfer	CHECK	
6	Generator Load	CHECK	
7	Anti-ice/De-ice Systems	AS REQUIRED	
		(180 KIAS	
		MINIMUM IN ICING)	
8	Oxygen/Crew Mask	CHECK	
9	Power	SET AS REQUIRED	
		(96% RPM TO	
		98% RPM)	
10	Engine Instruments	MONITOR	

(ADD 10% KCAS

(BELOW 175KCAS)

IN ICING)

	DESCENT	
1	Cabin Altitude	SET
2	Fuel Transfer Control Switches.	TIP MANUAL
		OR OFF
3	Altimeters	SET
4	Windshield Defog	
5	Ignition Switches	
6	Anti-ice/De-ice	
Ū	7 100/20 100111111111111	(ADD 10% KCAS
		IN ICING)
7	Taxi Lights	
′	Taxi Lights	
	APPROACH	
1		
1 2	Landing Data	COMPUTED
-	Landing Data Fuel Quantity/Balance	COMPUTEDCHECK - IN LIMITS
2	Landing Data Fuel Quantity/Balance Synchrophaser	COMPUTED CHECK - IN LIMITS OFF
2	Landing Data Fuel Quantity/Balance	COMPUTEDCHECK - IN LIMITSOFFZERO
2 3 4	Landing Data Fuel Quantity/Balance Synchrophaser Differential Pressure Condition Levers	COMPUTEDCHECK - IN LIMITSOFFZEROTAKEOFF LAND
2 3 4 5	Landing Data	COMPUTEDCHECK - IN LIMITSOFFZEROTAKEOFF LANDAS REQUIRED
2 3 4 5 6	Landing Data Fuel Quantity/Balance Synchrophaser Differential Pressure Condition Levers	COMPUTEDCHECK - IN LIMITSOFFZEROTAKEOFF LANDAS REQUIRED5 (BELOW
2 3 4 5 6 7	Landing Data Fuel Quantity/Balance Synchrophaser Differential Pressure Condition Levers Power Flaps	COMPUTEDCHECK - IN LIMITSOFFZEROTAKEOFF LANDAS REQUIRED5 (BELOW 175 KCAS)
2 3 4 5 6 7	Landing Data	COMPUTEDCHECK - IN LIMITSOFFZEROTAKEOFF LANDAS REQUIRED5 ° (BELOW 175 KCAS)140 KCAS MINIMUM
2 3 4 5 6 7 8 9	Landing Data Fuel Quantity/Balance Synchrophaser Differential Pressure Condition Levers Power Flaps	COMPUTEDCHECK - IN LIMITSOFFZEROTAKEOFF LANDAS REQUIRED5 (BELOW 175 KCAS)140 KCAS MINIMUM

LA	AND	ING	THRE	SHOL	_D	SPEED	(V _{REF}	=)
----	-----	-----	------	------	----	-------	-------------------	----

	•	LL /
WEIGHT	FLAPS 20°	FLAPS 40°
11025 LBS	110	119
10500 LBS	108	116
10000 LBS	105	114
9500 LBS	102	111
9000 LBS	100	108

11 Landing Lights......AS REQUIRED

	BEFORE LAND			
1	Landing Gear			
2	Brakes			
3	Flaps			
4	Ignition Switches			
5 6	Wing De-ice Autopilot/Yaw Damper			
O	Autopilot/ raw Damper			
	AFTER LANDI			
1	Power Levers			
2	Beta Range Annunciators			
3	Power Levers			
		(AS REQUIRED)		
4	Power Levers			
		WHEN REVERSING		
		COMPLETED		
5	Ignition Switches	OFF		
6	Condition Levers			
7	Anti-ice			
8	Lights			
9	Rader & Transponder			
10	Flaps			
11	Trim Tabs	RESET		
	STOPPING ENG			
1	Power Levers			
2	Radio Masters			
	Engine Shutdown			
4	Parking Brake			
	Overhead Switch Panel			
6	Oxygen Outlet Valve			
7	Cabin Air Selector			
8	Fuel Transfer Switch			
9	DC Generator Switches			
	Inverter Switch			
11	Other Switches	•		
		MAIN FUEL		
	D	VALVES AND SRL)		
	Battery Key Switch			
	Flight Control Lock			
14	Oxygen Cylinder Valve	CLOSED		

	SECURING			
1	Chocks	INSTALL		
2	Nose Gear Torque Link	DISCONNECT		
3	Plugs & Covers	INSTALL		
4	Parking Brake	OFF		
5	Bag & Cabin Lights	OFF		

TURNAROUND

If engine restarts are anticipated in 10 to 45 minutes:

- 1 Park airplane into wind if possible.
- 2 Manually turn engine rotating group in direction of normal rotation.
- 3 Continue these procedures until engine restart required.

	CRANKING			
	Complete BEFORE STARTIN	IG ENGINES Checklist		
1	Battery Select Switch	PARALLEL OR		
		SERIES		
2	Main Fuel Valve Switches	OPEN		
3	Run-Crank-Stop Switch	CRANK		
4	Start Selector Switch	LH GND		
		START OR RH		
		GND START		
5	Engine Start Switch	PRESS AND HOLD		
	When RPM stagnates:			
6	Engine Start Switch	BELEASE		

INFLIGHT NTS CHECK (FEATHERING OPERATION)

	On Engine to be Shutdown:	
1	Recommended Airspeed	150-180 KCAS
2	Recommended Altitude	5000 FT AGL MIN,
		DAY - VFR ONLY
3	Synchrophaser	OFF
4	Power Lever	
5	DC Generator Switch	
6	Amperage	
7	Bleed Air (engine to shutdown)	OFF
8	Ignition (engine to shutdown)	
9	Run-Crank-Stop Switch	
	•	TO 50% RPM)
10	Condition Lever	,
		STOP
		(AT 30% RPM)
11	Airstart	,
	SYSTEM OPERATI	ON
(1)	SYNCHROPHASER	
1	Engines	SYNCHRONIZE
1	Engines	SYNCHRONIZE MANUALLY
1	Engines	
1		MANUALLY (99.5% MAXIMUM)
2		MANUALLY (99.5% MAXIMUM)
2	Synchrophaser Control Switch	MANUALLY (99.5% MAXIMUM) ON
2	Synchrophaser Control Switch To Change Blade Relationship	MANUALLY (99.5% MAXIMUM) ON
2	Synchrophaser Control Switch To Change Blade Relationship	MANUALLY (99.5% MAXIMUM)ON
2 3	Synchrophaser Control Switch To Change Blade Relationship	MANUALLY (99.5% MAXIMUM)ONADJUST PHASE SELECT AS NECESSARY
2 3	Synchrophaser Control Switch To Change Blade Relationship Between Propellers	MANUALLY (99.5% MAXIMUM)ONADJUST PHASE SELECT AS NECESSARY N SYSTEM
2 3 (2)	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions	MANUALLY (99.5% MAXIMUM)ADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)
2 3 (2)	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions	MANUALLY (99.5% MAXIMUM)ADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)
2 3 (2) 1 2	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in	MANUALLY (99.5% MAXIMUM)ADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)
2 3 (2) 1 2	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions	MANUALLY (99.5% MAXIMUM)ADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ON
2 3 (2) 1 2 (3)	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions	MANUALLY (99.5% MAXIMUM)ADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ON
2 3 (2) 1 2 (3)	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions Both Indicator Lights AUTO IGNITION SYSTEM (If Auto Ignition System is instal	MANUALLY (99.5% MAXIMUM)ADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ONILLUMINATED
2 3 (2) 1 2 (3) AU 1	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions	MANUALLY (99.5% MAXIMUM)ONADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ONILLUMINATED
2 3 (2) 1 2 (3) AU 1 2	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions	MANUALLY (99.5% MAXIMUM)ONADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ONILLUMINATED
2 3 (2) 1 2 (3) AU 1 2	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions Both Indicator Lights AUTO IGNITION SYSTEM (If Auto Ignition System is install ITOMATIC OPERATION: Ignition Switches Annunciator Lights Annunciator Lights	MANUALLY (99.5% MAXIMUM)ONADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ONILLUMINATED Illed)AUTOEXTINGUISHED
2 3 (2) 1 2 (3) AU 1 2 CC 1	Synchrophaser Control Switch To Change Blade Relationship Between Propellers ENGINE CONTINUOUS IGNITION (If Auto Ignition System is not in Continuous Ignitions Both Indicator Lights AUTO IGNITION SYSTEM (If Auto Ignition System is install TOMATIC OPERATION: Ignition Switches Annunciator Lights	MANUALLY (99.5% MAXIMUM)ONADJUST PHASE SELECT AS NECESSARY N SYSTEM Installed)ONILLUMINATED Illed)AUTOEXTINGUISHED

(4) FUEL TRANSFER SYSTEM	
1 L and R Fuel Transfer Switches	AUTO
2 Appropriate Fuel Transfer	
Control Switch	
(5) AIR CONDITIONING AND PRESS SYSTEM	URIZATION
HEATING/COOLING/PRESSURIZATI	ON:
1 Manual Pressure Control Valve	
2 Auto-Manual Selector Switch	
3 Cabin Supply Air Temperature	
Selector	
4 Cabin Air Selector Switch	
	RH AS DESIRED)
5 Cabin Altitude Selector Knob	
6 Cabin Rate Control Knob	
7 Cabin Air Outlet Select Switch	CEILING
	OR FLOOR)
8 Forward Conditioned Air Outlet	OH LOON)
Knob	NORMAL
MAXIMUM COOLING:	
 Cabin Supply Air Temperature 	
Selector	
Selectoror Auto-Manual Selector Switch	MANUAL COLD
Selectoror Auto-Manual Selector Switch 2 Air Outlets	MANUAL COLD
Selectoror Auto-Manual Selector Switch 2 Air Outlets	MANUAL COLD
Selector	MANUAL COLD
Selector	MANUAL COLDOPENFULL HOT
Selector	MANUAL COLDOPENFULL HOTMANUAL HOT
Selector	MANUAL COLDOPENFULL HOTMANUAL HOT
Selector	MANUAL COLDPULL HOTMANUAL HOTMANUAL HOT
Selector	MANUAL COLD
Selector	MANUAL COLD
Selector	MANUAL COLDFULL HOTMANUAL HOTOPENBOTHBOTHDECREASE
Selector	MANUAL COLD
Selector	MANUAL COLDFULL HOTMANUAL HOTOPENBOTHDECREASE UNTIL CABIN DIFFERENTIAL
Selector	MANUAL COLD
Selector	MANUAL COLD
Selector	MANUAL COLDOPENFULL HOTMANUAL HOTOPENBOTHDECREASE UNTIL CABIN DIFFERENTIAL PRESSURE IS ZEROOFF

WI	NDSHIELD DEFOG SYSTEM:	
1	Cabin Air Selector Switch	BOTH
2	Forward Conditioned Air Outlet	
	Knob	DEFOG
	If sufficient defogging cannot	be obtained:
3	Cabin Supply Air Temperature	
	Selector	
	or Auto-Manual Selector Switch.	MANUAL HOT
	OXYGEN SYSTEM	
SY	STEM USAGE:	
	Cockpit Outlet Valve	
2	Oxygen Mask	
		IN OUTLET,
		ROTATE 1/4 TURN
		CLOCKWISE TO
		DETENT POSITION
		AND DON MASK
3	Flow Indicator	CONFIRM OXYGEN
		FLOW BY
		ABSENCE OF RED
		LINE INDICATOR
		IN HOSE
AF	TER USING:	
1	Cockpit Outlet Valve	CLOSE
2	Oxygen Mask	DISCONNECT
3	Oxygen Cylinder Shutoff Valve	CLOSE
		(AFTER LANDING)
	TIME TADIC	

TIME TABLE

OXYGEN DURATION CHART - 22 CU. FT. CYLINDER (622 LITERS)

PERSONS	DURATION IN	HRS. AND MIN. A	FOLLOWING ALTITUDE	S
USING	15,000 FT	20,000 FT	25,000 FT	31,000 FT
1	4 hr. 13 min.	3 hr. 22 min.	2 hr. 50 min.	2 hr. 27 min.
2	2 hr. 6 min.	1 hr. 41 min.	1 hr. 25 min.	1 hr. 13 min.
3	1 hr. 24 min.	1 hr. 7 min.	56 min.	49 min.
4	1 hr. 3 min.	50 min.	42 min.	36 min.
5	50 min.	40 min.	34 min.	29 min.
6	42 min.	33 min.	28 min.	24 min.
7	36 min.	28 min.	24 min.	21 min.
8	31 min.	25 min.	21 min.	18 min.
9	29 min.	22 min.	18 min.	16 min.
10	25 min.	20 min.	17 min.	14 min
11	23 min.	18 min.	15 min.	13 min.

(7) PITOT AND STATIC ANTI-ICE SYSTEM Inflight Operation - Prior to Flight Into Known Icing			
Co	nditions:		
1	Pitot & Static Anti-ice SwitchesON		
	Loadmeter Select SwitchLH PITOT AND		
	STATIC POSITION		
3	Loadmeter Operating Range50 TO .85		
	Loadmeter Select SwitchRH PITOT AND		
	STATIC POSITION		
5	Loadmeter Operating Range50 TO .85		
	Pitot & Static Anti-ice SwitchesON		
(8)	STALL WARNING ANTI-ICE SYSTEM		
Inf	light Operation - Prior to Flight Into Known Icing		
Co	nditions:		
1	Stall Vane Anti-ice SwitchON		
2	Loadmeter Select SwitchSTALL VANE		
3	Loadmeter Operating Range		
4	Stall Vane Anti-ice SwitchAS REQUIRED		
	PROPELLER ANTI-ICE SYSTEM		
Inf	light Operation - Prior to Flight Into Known Icing		
	nditions:		
	Propeller De-ice SwitchesON		
2	Loadmeter Select SwitchPOSITION TO		
	LH PROP		
	Loadmeter Operating Range		
4	Loadmeter Select SwitchPOSITION TO		
	RH PROP		
	Loadmeter Operating Range		
	Propeller De-ice SwitchesAS REQUIRED		
(10) ENGINE INTAKE AND OIL COOLER AIR INTAKE		
	ANTI-ICE SYSTEM		
	light Operation - Prior to Flight Into Known Icing		
	nditions:		
1	Engine Intake Anti-ice SwitchesON		
	Indicator LightsILLUMINATE		
3	Oil Cooler Inlet Anti-ice		
4	Switches ON		
	Indicator LightsILLUMINATE		
5	Engine Intake and Oil Cooler		
	Anti-Ice SwitchesAS REQUIRED		

-) HEATED WINDSHIELD ANTI-	CE SYSTEM
1	LH and RH	ON
2	If Ice Forms, High Heat Switches	ON (L OR R AS REQUIRED)
3	When Ice is Removed, High Heat Switches	,
	nen clear of icing conditions: Windshield Heat Low Switches	
(12	LH and RH) WING AND EMPENNAGE DEI	ON CE SYSTEM
	FLIGHT OPERATION:	
1	Wing Ice Light Switch	ON (AT NIGHT)
	Wing De-ice Switch	
	Ice Accumulation on Wing	
	Leading Edge	MONITOR
4	Wing De-ice Switch	
	3	LEAVING
		ICING CONDITIONS
		AND AIRCRAFT
		IS CLEAR OF
		ACCUMULATED
		ICE
SE	VERE ICING CONDITIONS:	
1	Wing De-ice Switch	MANUALLY CYCLE
	3	- 6 SECONDS ON,
		10 SECONDS OFF
2	Wing De-ice Switch	
	9	LEAVING
		ICING CONDITIONS
		AND AIRCRAFT
		IS CLEAR OF
		ACCUMULATED
		ICE

BLENDING ANTI-ICE ADDITIVE TO FUEL

BLENDING PROCEDURES:

- 1 Using HI-FLO PRIST blender manufactured by PPG INDUSTRIES, INC., remove actuator cap.
- 2 Press valve button (attached to tube and clip assembly) into valve on top of can.
- 3 Reattach actuator cap by positioning onto can.
- 4 Place clip with tubing onto fuel nozzle.
- 5 To start flow, press actuator down fully. To stop flow, press tilt to side and return to normal position.
- 6 Use can upright and start flow of PRIST after refueling begins (refueling should be at a minimum rate of 30 gal/min. to a maximum of 60 gal/min.). A rate of less than 30 gal/min. may be used when topping off tanks.
- 7 Stop flow of PRIST a moment before refueling stops.

ALTERNATE BLENDERS:

If alternate blenders must be used such as PRIST proportioner Model PRB-101 or AP-2, use instructions furnished with blender.

LANDING GEAR AND FLAP SYSTEMS -EXTEND/RETRACT CYCLES

Landing Gear	
Extension or Retraction	17 SECONDS
Flap Extension	
Up to 5°	17 SECONDS
5°to 20°	10 SECONDS
20°to 40°	6 SECONDS
Flap Retraction	
40°to 20°	4 SECONDS
20°to 5°	10 SECONDS
5° to Up	21 SECONDS

		AFM page
	PREFLIGHT CHECK (COCKPIT and CABIN)	5-1
	Refer the preflight check procedures in the airplane flight manual, after maintenance and airplane storage.	5-1
1	Oxygen CylinderOPEN, CHECK Charged, valve open (note pressure) masks available for all passenger seats.	5-5
	WARNING	
	IF THE VALVE ON THE OXYGEN CYLINDER IS CLOSED, NO OXYGEN CAN BE SUPPLIED TO THE MASK OUTLETS.	5-5
2	Oxygen Outlet Valve and Gauge (copilot's side panel)OPEN, CHECK Open cockpit valve. Ensure pressure same as at cylinder. Ensure masks available and plugged in for pilot, and copilot, if required. Check oxygen flow through masks. Close cockpit oxygen outlet valve.	5-5
	WARNING	
	RESIDUAL PRESSURE MAY BE SHOWN ON THE OXYGEN GAUGE EVEN THOUGH THE VALVE ON THE OXYGEN CYLINDER IS CLOSED. ASSURE THAT THE PRESSURE READINGS ARE THE SAME AND THE CYLINDER VALVE IS OPEN. CLOSE THE OXYGEN OUTLET VALVE UPON COMPLETION OF THE CHECK.	5-5
3	Emergency Gear Extension	5-2
	HandleDOWN AND SAFETIED	
4	Landing Gear SwitchDOWN To prevent gear retraction when power is applied.	5-2
5	Parking Brake	5-2

		AFM page
6	Left Switch PanelCHECK	5-6
а	Master SwitchGUARD DOWN AND	5-6
	SAFETIED (NORMAL)	
b	Trim Aileron Select SwitchGUARD DOWN AND	5-6
	SAFETIED (BOTH)	
С	DC Generator SwitchesOFF	
d	Other SwitchesOFF	5-6
е	Main Fuel Valve SwitchesOPEN	5-9
	Check the main fuel valve switches in the open position and the fire T handles in.	/5-22-1 /5-22-2
7	Static Source SelectNORMAL STATIC	
	SOURCE	5-6
8	Other SwitchesOFF	
	Ensure other cockpit switches off, including auto ignition and all anti-ice switches, before turning on battery power.	
9	Battery Key SwitchON	5-2
а	Battery Isolate SwitchesBOTH NORMAL	5-6
b	Voltmeters22 VDC MINIMUM	5-7
10	Battery Temperature WarningTEST	5-6
	1) If normal - Both pointers will move, approximately together, to top of scale illuminating the BAT TEMP 120°, BATTERY OVER TEMP and Master Caution light. Speed of travel will vary some depending on ambient battery temperature. The Master Caution can be cancelled, but the lights on the Battery Temperature Indicator instrument will remain illuminated. Release button, all systems will return to normal.	5-6
	2) If Probe has become contaminated - The affected Indicator will come to rest at some place down scale (not at the top), or it will remain at bottom. That probe should be replaced prior to flight.	5-6
	3) When Test Button is pressed - If one needle travels at normal speed to top and the other lags appreciably behind, then the probe in the battery connected with the lagging instrument should be checked since an open heat sensor or wiring will cause this indication.	5-7
	4) While in preflight of airplane - If either of the indicators come to rest at the top of the scale and the test button is not pressed, all lights will illuminate. Have ground crew check and see if battery probe was left disconnected.	5-7

	AFM page
WARNING	
IF BATTERY TEMPERATURE REACHES 150 °F DURING START, BATTERY MUST BE REMOVED FOR BENCH TEST AND INSPECTION PRIOR TO FLIGHT.	5-7
NOTE	
The expanded scale will not start to indicate until a cell temperature of 100°F or above is reached.	5-7
11 Main Bus Tie (on ground)CHEC	
a Battery Isolate Switches BOTH NORMA	L 5-2
Battery 1 Isolate SwitchISOLAT Both voltammeters must indicate 22 to 24 volts and no	E 5-2
FEEDER OUT annunciator will be illuminated.	
Battery 2 Isolate SwitchISOLATE Both batteries will be isolated.	5-2
3) Battery 1 Isolate Switch NORMA	L 5-2
Both voltammeters must indicate 22 to 24 volts and no FEEDER OUT annunciator will be illuminated.	
4) Battery 2 Isolate SwitchNORMA	L 5-2
CAUTION	
IF EITHER VOLTAMMETER READS ZERO, THE 200 AMI BUS TIE CIRCUIT BREAKER IS OPEN AND THE CORRESPONDING FEEDER OUT ANNUNCIATOR WILL BE ILLUMINATED. MALFUNCTION MUST BE CORRECTED PRIOR TO FLIGHT.	
12 Inverter SwitchSTBY THEN MAII	√ 5-3/5-7
a Check inverter fail annunciator extinguished	5-7
13 Control Lock	
14 Fuel	_

US gallon tip tank maximum imbalance.

Mitsubishi	Pilot Checklist	Section 5
MU-2B-60	Marquise	Normal Procedures

	AFM	
	page	
15 Instrument PanelCHECK	5-6	
a Ignition SwitchesOFF	5-6	
b Ignition Test (If auto ignition system is installed)	5-9/	
	5-22-1/-2	
1) Both Run-Crank-Stop SwitchesRUN	5-9/ 5-22-1/-2	
2) Auto Ignition SwitchesCONT, NOTE		
LH AND RH IGNITION	5-9/	
LIGHTS ILLUMINATED	5-22-1/-2	
3) Auto Ignition SwitchesAUTO, NOTE		
LH AND RH IGNITION		
LIGHTS ILLUMINATED	5-9/5-23	
4) Auto Ignition SwitchesOFF, NOTE		
LH AND RH IGNITION		
LIGHTS EXTINGUISHED	5-9/5-23	
c Ignition Test (If continuous ignition system is installed)		
1) Both Run-Crank-Stop SwitchesRUN		
2) Continuous Ignition SwitchesON (BOTH IGNITOR		
LIGHTS ILLUMINATED)		
3) Continuous Ignition SwitchesOFF (BOTH		
IGNITOR LIGHTS		
EXTINGUISHED)		
d Boost PumpsCHECK (L AND		
R BOOST PUMP		
FAIL ANNUNCIATORS		
EXTINGUISHED)	5-7	
e Stall Warning SystemCHECK	5-7	
Stall warning stick shaker actuates when the ground test		
switch is activated. Stick shaker should not activate when the flight test is activated.		
f Fuel Quantity Test SwitchTEST	5-8	
Check main, outer, and tip indicator needles move		
smoothly to "0" position, FUEL LOW LEVEL annunciator		
illuminates when main tank quantity indicator indicates approximately 200 pounds.		
g Fuel Low Level Test SwitchTEST(FUEL LOW		
LEVEL ANNUNCIATOR		
ILLUMINATES)	5-8	

	AFM page
h Outer Pump Test SwitchTEST	5-8
NOTE	
Both Fuel Transfer Switches must be in the OFF position for the system to TEST effectively.	5-8
1) Outer Fuel Empty Annunciators	
(with fuel)ILLUMINATE	5-8
THEN EXTINGUISH 2) Outer Fuel Empty Annunciators	3-0
	5-8
(no fuel)	0.0
i Defog Warning testCHECK DEFOG DEFOG OVERHEAT WARNING annunciator illuminates	
when test switch actuated	
j Propeller synchrophaserSWITCH OFF, LIGHT	
PRESS TO TEST.	
k All Other Instruments and GagesCHECK	
16 Center PedestalCHECK	5-6
a Condition LeversFREE MOVEMENT,	
SET AT TAXI	5-6/5-8
b Power LeversFREE MOVEMENT,	
SET BETWEEN	
GROUND IDLE	
AND FLIGHT IDLE	5-6/5-8
c Run-Crank-Stop SwitchesCRANK	5-6
d Start Selector SwitchAIR START AND SAFE	5-6
e SRL SwitchesON	5-6
17 FlapsSET FOR	
TAKEOFF	5-3/5-14
Select flaps to 5° or 20°. Allows inspection of jackscrews and flap condition during exterior preflight.	
18 TrimCHECK & SET	5-3/5-8
Elevator 4° - 6° nose up, rudder 2° left and aileron 1° left. Check all tabs free of binding.	
19 Right Switch PanelCHECK	5-6
a Cabin Air Selector SwitchOFF	5-6
b Auto-Manual Selector SwitchOFF	5-6
c Manual Pressure Control ValveFULL INCREASE	5-6
d Cabin Altitude Selector KnobSET APPROXIMATELY	
1,000 FEET ABOVE	
AIRPORT ELEVATION	5-6
e Cabin Rate Control KnobMINIMUM	5-6

Mitsubishi	Pilot Checklist	Section 5
MU-2B-60	Marquise	Normal Procedures

	AFM page
20 Overhead Switch PanelCHECK	5-6
a Landing Light SwitchesRET	5-6
b Other SwitchesOFF	5-6
21 Warning and Indicator LightsCHECK	
(SRL FAILED	
ANNUNCIATORS	
ILLUMINATED)	5-7
Test overhead panel lights, fire warning lights, master	5-7
caution system, annunciator panel, gear unsafe, and flaps lights. After master warning system tested, note both SRL	
fail lights illuminated, both Generator off annunciators	
illuminated, the instrument vacuum fail annunciator	
illuminated, entrance door open annunciator illuminated,	
and all other annunciators extinguished.	
22 Inverter SwitchOFF	5-3
23 Battery Key SwitchOFF	5-3
24 Fire ExtinguisherCHECK	5-6
Charged, secure in bracket	5-6
25 Publications & DocumentsON BOARD	5-2
a Certificate of Airworthiness	5-2
b Current Airplane Flight Manual	5-2
c Current Pilot's Operating Manual	5-2
d Current Weight and Balance data	5-2
e Current Navigation Charts for Flight	5-2
f Registration certificate	5-2
26 Load and BaggageSECURE	5-5
27 Emergency Exit DoorSECURED	5-5
28 Seat BacksUPRIGHT	5-5
29 TableSTOWED AND	
COVERED	5-5

AFM

page PREFLIGHT CHECK (EXTERIOR) CAUTION IF AIRPLANE HAS SET IN OR FLOWN THROUGH 5-3 MOISTURE, OR HAS BEEN WASHED, PERFORM PITOT STATIC SYSTEM DRAIN PROCEDURES (SEE PILOTS OPERATING MANUAL, SECTION 3). (1) LH WING TRAILING EDGE 5-3 1 General Condition......CHECK 5-3 2 Flap, Spoiler and Trim Aileron......CHECK 5-3 3 Tailpipe, EGT Probes and Turbine......CHECK 5-3 5-3 (2) LH WING TIP TANK, LEADING EDGE 5-3 AND NACELLE 1 General Condition......CHECK 5-3 2 Tip Tank Filler Cap......CHECK FOR 5-3 SECURITY 3 Wing Tip & Taxi Lights......CHECK 5-3 5-3 4 Wing Tie Downs......REMOVED 5-3 Ice Inspection Light......CHECK 5-3 6 Fuel Leakage......CHECK 7 Main/Outer Fuel Tank Filler Caps......CHECK FOR **SECURITY** 5-3 8 Main/Outer Fuel Tank Vent Ports......CHECK FOR 5-3 **OBSTRUCTION** 9 Engine Air Intake......CHECK FOR DAMAGE AND FOREIGN 5-3 **OBJECTS** 10 Engine Air Intake Drain Valve (Applicable to S/N 1535SA and subsequent)......PRESS; NOTE ANY EXCESSIVE 5-3 FLUID DRAINAGE 11 Nacelle/Doors and Latches......GENERAL CONDITION AND LATCHES 5-3 **SECURED**

		AFM page
12	Oil Level	
12	FULL AND ADD);	
	CAP SECURED	5-3
13	Nacelle Door (Oil Access)LOCKED	5-3
	Oil Leakage	5-4
	Oil Cooler Inlet Anti-icing Boots	
	TEARS	
	AND ABRASIONS	5-4
16	Propeller	
	FLAT PITCH AND	
	FREE ROTATION	
	(NORMAL	
	DIRECTION	
	OF ROTATION)	5-4
17	De-icing Boots	
1 /	FOR TEARS	
	AND ABRASIONS	5-4
(3)	NOSE AND FORWARD SECTION OF FUSELAGE	5-4
1	LH Forward Main Gear DoorCHECK	5-4
2	General Condition	5-4
3	Pitot Tube CoversREMOVE	5-4
4	Pitot-Static Holes	
•	OBSTRUCTION	5-4
5	Lower Rotation Beacon	
	(if installed)CHECK	5-4
6	Landing LightsCHECK	5-4
7	Nose Landing Gear StrutCHECK FOR	
	EXTENSION	5-4
8	Uplimit MechanismCHECK	5-4
9	Nose Landing Gear DoorsCHECK FOR	
	SECURITY	5-4
10	Nose Gear Torque LinkCONNECTED	5-4
	Tire Inflation/ConditionCHECK	5-4
	Static WireCHECK	5-4
13	Nose Landing Gear Tie Downs	
	and ChocksREMOVE	5-4
14	WindshieldCHECK FOR	
	CLEANLINESS	
	AND DAMAGE	5-4
15	Windshield WipersCHECK CONDITION	
	AND SECURITY	5-4
16	RH Forward Main Gear DoorCHECK	5-4

		AFM
		page
(4)	RH WING NACELLE, LEADING EDGE,	
	AND TIP TANK	5-4
1	General ConditionCHECK	5-4
2	Stall Warning VaneCHECK	5-4
3	De-icing BootsCHECK FOR	
	TEARS	
	AND ABRASIONS	5-4
4	PropellerCHECK FOR	
	FLAT PITCH AND	
	FREE ROTATION	
	(NORMAL	
	DIRECTION	
	OF ROTATION)	5-4
5	Oil Cooler Inlet Anti-Icing BootsCHECK FOR	
	TEARS AND ABRASIONS	5-4
6	Oil LeakageCHECK	5-4
7	Nacelle Door (Oil Access)LOCKED	5-4
8	Oil LevelCHECK (BETWEEN	
	FULL AND ADD);	
	CAP SECURED	5-4
9	Nacelle/Doors and LatchesGENERAL	
	CONDITION	
	AND LATCHES	
	SECURED	5-4
10	Engine Air Intake Drain ValvePRESS; NOTE	
	ANY EXCESSIVE	
	FLUID DRAINAGE	5-4
11	Engine Air IntakeCHECK	
	FOR DAMAGE	
	AND FOREIGN	
	OBJECTS	5-4
12	Main/Outer Fuel Tank Vent	
	PortsCHECK FOR	
	OBSTRUCTION	5-4
13	Main/ Outer Fuel Tank Filler	
	CapsCHECK FOR	
	SECURITY	5-4
14	Fuel LeakageCHECK	5-4
15	Wing Tie DownsREMOVED	5-4
16	Wing Tip & Taxi LightsCHECK	5-4
17	Tip Tank Filler CapCHECK FOR	
	SECURITY	5-4
(5)	RH WING TRAILING EDGE	5-4
1	General ConditionCHECK	5-4
2	Static DischargerCHECK	5-4
3	Tailpipe, EGT Probes and	
	TurbineCHECK	5-4

Mitsubishi	Pilot Checklist	Section 5
MU-2B-60	Marquise	Normal Procedures

		AFM
		page
4	Flap, Spoiler and Trim AileronCHECK	5-4
(6)	RH CENTER AND REAR SECTION OF FUSELAGE	5-4
1	General ConditionCHECK	5-4
2	Main Landing Gear DoorCHECK FOR	
	SECURITY	5-4
3	Main Landing Gear Strut and	
	TireCHECK FOR	
	EXTENSION	
	AND PROPER	
	INFLATION	5-4
4	Main Landing Gear Brake Disc	
	and Wheel WellCHECK	5-4
5	Landing Gear Door Ground	
	Control SwitchNORMAL AND	
	SAFETIED	5-4
6	Main Landing GearREMOVE CHOCKS	5-4
7	Ram-Air IntakeCHECK FOR	
	OBSTRUCTIONS	5-4
8	Aft Fuselage Tie DownREMOVE	5-4
9	Cooling Air Discharge DuctCHECK FOR	
	DAMAGE	
	AND FOREIGN	
	OBJECTS	5-4
(7)	EMPENNAGE	5-5
1	General ConditionCHECK	5-5
2	External Surface LocksREMOVE	5-5
3	Control Surface and TabsCHECK	5-5
4	Upper Rotating BeaconCHECK	5-5
5	Tail LightCHECK	5-5
6	Deicing BootsCHECK FOR	
	TEARS	
	AND ABRASIONS	5-5

		AFM page
(8)	LH REAR AND CENTER SECTIONS OF	
	FUSELAGE	5-5
1	General ConditionCHECK	5-5
2	Cooling Air IntakeCHECK FOR	
	DAMAGE	
	AND FOREIGN	
	OBJECTS	5-5
3	External Power Receptacle	
	DoorCHECK	5-5
4	Battery VentCHECK FOR	
	DAMAGE	
	AND FOREIGN	
	OBJECTS	5-5
5	Main Landing GearREMOVE CHOCKS	5-5
6	Main Landing Gear Brake Disc	
	and Wheel WellCHECK	5-5
7	Main Landing Gear Strut and	
	TireCHECK FOR	
	EXTENSION	
	AND PROPER	
	INFLATION	5-5
8	Main Landing Gear DoorCHECK FOR	
	SECURITY	5-5
9	Ejector Exhaust PortCHECK FOR	
	OBSTRUCTIONS	5-5

		AF pag
	BEFORE STARTING ENGINES	5-
1	Passenger Briefing	5-
2	Seat	5-
3	Safety Belts and Shoulder HarnessFASTEN	5-
4	Parking BrakeSET Apply pressure to toe brakes, pull handle aft, and rotate handle to set parking brake.	5-
5	Takeoff Data	5-
6 7	Circuit Breakers	5- 5-
8	Battery Key SwitchON 22 v minimum for start. Battery key should be on for APU start. (Monitor temperature maximum 140 °F)	5- /5- /5- /5-2
9	DC Generator SwitchOFF No generator assist is allowed during start.	
а	Inverter Switch	5- 5-
	DoorLOCKED Check cabin door annunciator extinguished and pilot communication door closed.	5-5 5-1

MU-2B-60	Marquise	Normal P	rocedures
			AFM page
12 APU	AS	S REQUIRED	5-7/5-8/ 5-22
a Battery Select Switch		PARALLEL	5-7
b APU		CONNECT	5-7 /5-8 /5-22
c Check Voltmeters	_	DC DESIRED (APU MUST ABLE OF 800 ND MINIMUM	
	OF 16 \	/DC DURING ART CYCLE).	5-7/5-8/ 5-22
d OAT 10°C or Less	REC	APU OMMENDED	5-8/5-22
e Battery Temperature	Above 120°FAPU	J REQUIRED	5-8/5-22
If battery temperature takeoff until the light is	120°F light is illuminated s extinguished.	l, do not	
13 Fuel Quantity Ensure fuel load and limits.	balance sufficient for fligh		
14 Cabin Sign, Rotating	Beacon	SET	5-8/5-14

15 Navigation Light......AS REQUIRED

Pilot Checklist

Section 5

Mitsubishi

		AFM page
	STARTING ENGINES	5-8/5-22
1	Battery Select SwitchAS REQUIRED	5-8/5-22-1 /5-22-2
	Select parallel for all APU starts and battery starts if OAT is above 10 degrees C. Series is recommended for battery starts when OAT is 10 degrees C or less. During start, monitor battery temperature. For parallel starts, if a battery temperature reaches 140° F, isolate the battery. For series starts, if a battery temperature reaches 140° F, abort is recommended. For parallel or series starts, if a battery temperature rises to 150° F, abort is required.	5-8/ 5-22-1/ 5-22-2
2	SRL SwitchesON SRL must be on to ensure operation of speed switches during start. Monitor SRL fail annunciators during start. SRL fail annunciators will remain on until approximately 14%rpm.	5-9/ 5-22-1/ 5-22-2
3	Both Run-Crank-Stop SwitchesRUN	5-9/
	This arms fuel and ignition during start.	5-22-1/ 5-22-2
4	EGT	5-9/5-23 5-10/5-24
	If feather valve check is not required,	
	proceed to 6:	
5	Feather Valve CheckACCOMPLISH	5-21
	CAUTION	
	FEATHER VALVE CHECK REQUIRED 1) PRIOR TO THE FIRST FLIGHT OF THE DAY 2) BEFORE EVERY FLIGHT, INTENTIONAL ENGINE SHUTDOWN IS PLANNED 3) BEFORE EVERY FLIGHT, AFTER FEATHERING LINKAGE ADJUSTED 4) AFTER MAINTENANCE OF THE FEATHERING SYSTEM	5-8/5-21
а	LH Unfeather SwitchPRESS AND HOLD	
	(LH BETA RANGE	
	LIGHT ILLUMINATED)	5-21

		AFM page
b	LH Condition LeverEMERGENCY STOP (LH BETA RANGE	
С	LIGHT EXTINGUISHED) LH Condition LeverTAXI	5-21
d	(LH BETA RANGE LIGHT ILLUMINATED) LH Unfeather SwitchRELEASE	5-21
	(LH BETA RANGE LIGHT EXTINGUISHED)	5-22
е	Repeat Steps "a" through "d" for Right Engine. WARNING	5-22
	IF THE BETA RANGE LIGHT DOES NOT EXTINGUISH OR DOES NOT ILLUMINATE AS REQUIRED DURING THE ABOVE PROCEDURE, ENGINE START SHOULD NOT BE ATTEMPTED UNTIL MAINTENANCE HAS BEEN CONDUCTED ON THE AIRCRAFT TO CORRECT THE DISCREPANCY.	5-22
6	Power LeversHALF INCH FORWARD	5-22-1/ 5-22-2
7 8	OF FLIGHT IDLE Condition Levers	5-8 5-9/5-23
9	Propellers	5-9/ 5-22-1/ 5-22-2
	NOTE	
	Ensure that the propellers are clear prior to starting. If the propeller is feathered, place the Power Lever in REVERSE and hold the Unfeather Switch until the blades reach the lock position.	5-9/ 5-22-1/ 5-22-2

MU-2B-60	Marquise	Normal Procedures
		AFM page
10 Engine Start / NTS C	heck	ACCOMPLISH 5-22
a Unfeather Switch	PRES	SS AND HOLD 5-23
,	nciatorI	
b Engine Start Switch	PRES	SS AND HOLD
	WHILE	OBSERVING
		BETA RANGE
		NNUNCIATOR 5-23
1) Beta Range Annur	nciatorEX	
		AS ENGINE
		FION STARTS 5-23
2) Continue to hold up		5-23
c Battery Temperature	Monitor during Engine S	tarting 5-8/ 5-22-1/ 5-22-2
1) If Battery Tempera	ture rises to	
140° F	BA	TTERY MUST
	E	BE ISOLATED
	AFTER (COMPLETION 5-8/ 5-22-1/
	OF EN	GINE START. 5-22-2
2) If Battery Tempera	ture rises to	5-8/
150° F	AE	BORT START 5-22-1/ 5-22-2
	CAUTION	
INDICATOR HOT LIC	GHT, BATTERY OVER T	
MASTER CAUTION A	ANNUNCIATORS ILLUM	MINATE 5-22-1/ 5-22-2
WHEN THE BATTER	RY TEMPERATURE REA	ACHES 150° F.
	CAUTION	

ABORT IS RECOMMENDED BUT NOT REQUIRED AT

Pilot Checklist

Section 5

Mitsubishi

140° F

5-9/

5-22-1/

5-22-2

		AFM page
d Ignition and EGT RiseRELEASE EN	GINE	
START SW		5-9/5-23
1) SRL Fail AnnunciatorEXTINGUIS	SHED	
ABOVE 14%	RPM	5-9/5-23
2) EGTMON	ITOR	5-9/5-23
3) Within 10 seconds past 10% RPM		
or by 20% RPMINDICA	ATED	
COMBUS	TION	
OR PI	LACE	
RUN-CRANK-S		
SWITCH TO S	STOP	5-9/5-23
e Illumination of Beta Range		
AnnunciatorRELE		
UNFEATHER SW	ITCH	5-23
NTS System check is satisfactory if :		5-23
1) Beta Range AnnunciatorEXTINGIS		
AS EN		
STARTS TO ROT	— .	5-23
2) Beta Range AnnunciatorILLUMINA		
AT 18		
30% RPM (MAYE		5 00
LATE AS 40% F	₹PM).	5-23
WARNING		
IF ENGINE FAILS NTS CHECK, CORRECT PRIOR TO FLIGHT.	0	5-23
CAUTION		

CAUTION

IF NTS CHECK IS UNSATISFACTORY, CONTINUE
START. WARM OIL TO NORMAL RANGE (55°C
MINIMUM) THEN SHUT DOWN AND PERFORM CHECK
AGAIN. IF NTS CHECK IS AGAIN UNSATISFACTORY,
FLIGHT SHALL NOT BE ATTEMPTED UNTIL
MALFUNCTION IS CORRECTED.

NOTE

The BETA RANGE annunciator should not illuminate before 10% RPM and may blink between 10% and 40% RPM, but must be illuminated by 40% RPM. Releasing the Unfeather switch and moving the Power Lever slightly forward of GROUND IDLE after steady illumination of the BETA RANGE annunciator may cause the BETA RANGE annunciator to blink.

5-23

	AFM page
f Power Lever (engine being started)SLIGHTLY ABOVE	
GROUND IDLE	5-24
1) Above 25%RPM with Slow	
Acceleration if EGT is below 700°CUSE FUEL	
ENRICHMENT SWITCH	5-24
2) Prior to 50% RPMINCREASING OIL	
PRESS OR PLACE	
RUN-CRANK-STOP	
SWITCH TO STOP	5-24
3) 60% RPM, End of Ignition, Engine	
Start Indicator LightEXTINGUISHED. IF	
ILLUMINATED PLACE	
RUN-CRANK-STOP	
SWITCH TO STOP	5-24
}~~~~~~~	

CAUTION

IF ANY MALFUNCTION OCCURS, PROPELLER FAILS 5-24 TO ROTATE, RPM DOES NOT REACH 10% WITHIN APPROXIMATELY 10 SECONDS, EGT RISES RAPIDLY TOWARDS START LIMIT, ENGINE STOPS, RPM STAGNATES PRIOR TO 40% RPM DURING STARTING PROCEDURES, ANY UNUSUAL NOISE OR VIBRATION OCCURS, OR ENGINE INSTRUMENTS INDICATE ABNORMAL CONDITIONS, SHUT DOWN ENGINE IMMEDIATELY BY PLACING CONDITION LEVER IN EMERGENCY STOP POSITION. IF EGT RAPIDLY APPROACHES 770°C DURING START, POSITION THE CONDITION LEVER TO EMERGENCY STOP. RESTART SHOULD NOT BE TRIED UNTIL EGT DROPS BELOW 200°C. COOL AND CLEAR ENGINE WITH CRANKING PROCEDURE OF SECTION 5.

AFM page

5-24

NOTE

If fuel is not ignited while attempting engine start, crank engine to expel fuel before attempting start again. Observe starter motor limit. Use Cranking Procedure, Section 5 Above 25% RPM, slow acceleration may indicate failure of auto-start system. Auto-start system will automatically enrich the start fuel schedule to maintain a constant EGT of approximately 690-700°C throughout the start. However, other parameters may influence and cause start temperature to vary, such as engine temperature, tail wind or weak batteries.

g Engine RPM......STABILIZE AT ABOUT 5-10/5-24
76.5 TO 78.5%
h SRL Fail Annunciator.....EXTINGUISHED 5-10/5-24

If APU start, proceed to 12:

11 Battery Recharge.......AS REQUIRED 5-11/5-25
Charging may begin with the condition lever at taxi while

the oil temperature is below 55 degrees C. Once the oil temperature is above 55 degrees C, the condition lever may be placed to TAKEOFF LAND to increase charging rate. After recharging, reset the condition lever to TAXI.

a Generator Switches......BOTH ON

(EQUALIZATION 5-11/5-25

CIRCUITS ENERGIZED)

e Battery Temperature......140 °F MAXIMUM 5-11/5-25

Battery Temperature......140 T W/WWWW

f Condition Lever (operating engine)......TAXI 5-11/5-25

When charging rate is less than 100 amps:

5-25

	AFM page
g Generator SwitchesBOTH OFF	5-25
CAUTION	
home	
DO NOT ATTEMPT ANOTHER BATTERY START IF BAT TEMP 120°ANNUN CIATOR IS ILLUMINATED. SHUT DOWN AND CORRECT PROBLEM PRIOR TO FLIGHT.	5-25
12 Other EngineSTART,	5-25
REPEATING	
SEQUENCE (STEP 8- 10)	
(8.2. 8.18)	
AFTER STARTING ENGINES	
1 Engine Instruments	5-24
a Oil Temperature	
POWER LEVERS	
ABOVE 78.5%RPM	5-13
Refer to AFM Chapter 5 "Preflight Operation Check" for	5-13-1/ 5-13-2
normal engine indications with various condition lever & power lever positions. Refer to AFM Chapter 2 "Instrument	0 10 2
Markings" for engine instrument indications.	
If APU start is not required, proceed to 3:	
2 APUDISCONNECT	5-24
3 Generator Switches	
(main bus tie check)EITHER LH OR	5-25
4 Voltammeter	
(main bus tie check)CHECK	5-25
CAUTION	
IF EITHER VOLTMETER INDICATES BATTERY	5-25
VOLTAGE (22 - 24 VOLTS) INSTEAD OF GENERATOR VOLTAGE (28.5 + 1.0/-1.5 VOLTS), THE 200 AMP BUS	
TIE CIRCUIT BREAKER IS OPEN AND MALFUNCTION	
MUST BE CORRECTED PRIOR TO FLIGHT.	
5 Generator Switches	
(main bus tie check)BOTH ON AND	5-25
CHECK a Check Voltammeter27 TO 29.5 VDC	5-25 5-25
a oncok vokaminotor	

		A = 1.4
		AFM page
h	Charge RateMONITOR	5-10/5-24
D	(MAXIMUM 200AMPS)	
6	Radio Master SwitchesON	5-14
7	Battery Select SwitchPARALLEL	
8	Fuel TransferAUTO	5-13
9	Start Select SwitchAIR START	
	AND SAFE	5-11/5-25
10	Cabin AirBOTH	5-13
	De-ice/Anti-ice System CheckAS REQUIRED	
а	PITOT AND STATIC ANTI-ICE SYSTEM	5-32
	1) Pitot & Static Anti-ice SwitchesON	5-32
	2) Loadmeter Select SwitchLH PITOT AND	
	STATIC POSITION	5-32
	3) Loadmeter Operating Range50 TO .85	5-32
	4) Loadmeter Select SwitchRH PITOT AND	
	STATIC POSITION	5-32
	5) Loadmeter Operating Range	5-32
	CAUTION	
	MAXIMUM 10 SECONDS OPERATION DURING GROUND PREFLIGHT.	5-32
h	6) Pitot & Static Anti-ice SwitchesOFF STALL WARNING ANTI-ICE SYSTEM	5-32
~	1) Stall Vane Anti-ice SwitchON	5-33
	2) Loadmeter Select SwitchSTALL VANE	5-33
	3) Loadmeter Operating Range	5-33
	jannannang	
	CAUTION	
	MAXIMUM 10 SECONDS OPERATION DURING GROUND PREFLIGHT.	5-33
	ICE ACCUMULATION ON THE WING DEICE BOOT MAY DISRUPT AIR FLOW OVER THE STALL VANE AND PREVENT THE SYSTEM FROM PROVIDING ACCURATE STALL WARNING.	5-33
	4) Stall Vane Anti-ice SwitchOFF	5-33

c PROPELLER ANTI-ICE SYSTEM

		AFM page
	CAUTION	
	DO NOT CHECK PROPELLER ANTI-ICE SYSTEM UNTIL AFTER ENGINE START.	5-33
	1) Propeller De-ice SwitchesON	5-33
	2) Loadmeter Select SwitchPOSITION TO	
	LH PROP	5-33
	3) Loadmeter Operating Range	5-33
	4) Loadmeter Select SwitchPOSITION TO	
	RH PROP	5-33
	5) Loadmeter Operating Range	5-33
	NOTE	
	The loadmeter will fluctuate in about 30 second cycles as power shifts to heater mats on other blades.	5-33
	6) Propeller De-ice SwitchesOFF	5-33
d	ENGINE INTAKE AND OIL COOLER AIR INTAKE ANTI-ICE SYSTEMS	5-33

	CAUTION	
	hammand	5-33
	DO NOT CHECK UNTIL AFTER ENGINE START.	5-33 5-34
	DO NOT CHECK UNTIL AFTER ENGINE START. 1) Engine Intake Anti-ice SwitchesON	
	DO NOT CHECK UNTIL AFTER ENGINE START. 1) Engine Intake Anti-ice SwitchesON 2) Indicator LightsILLUMINATE	5-34
	DO NOT CHECK UNTIL AFTER ENGINE START. 1) Engine Intake Anti-ice SwitchesON	5-34 5-34
	DO NOT CHECK UNTIL AFTER ENGINE START. 1) Engine Intake Anti-ice SwitchesON 2) Indicator LightsILLUMINATE 3) EGTSLIGHT INCREASE	5-34 5-34
	DO NOT CHECK UNTIL AFTER ENGINE START. 1) Engine Intake Anti-ice Switches	5-34 5-34 5-34 5-34
	DO NOT CHECK UNTIL AFTER ENGINE START. 1) Engine Intake Anti-ice Switches	5-34 5-34 5-34

AFM page 5-34 8) Indicator Lights......ILLUMINATE CAUTION MAXIMUM 10 SECONDS OPERATION DURING GROUND 5-34 PREFLIGHT. 5-34 9) Oil Cooler Anti-ice Switches......OFF 5-34 e HEATED WINDSHIELD ANTI-ICE SYSTEM Preflight check cannot be performed when OAT is above 5-34 38.5°C or if the windshields have been exposed to direct sunlight for extended periods. 5-34 1) Windshield Heat Low Switches.....ON a) Overhead Panel Indicator LightsILLUMINATED 5-34 2) After Indicator Lights Cycle, High 5-34 Heat Switches.....ON a) Instrument Panel High Heat Indicator 5-34 Lights.....ILLUMINATED NOTE 5-34 Heating may be confirmed by touching windshield. Windshield Heat Low Switches in the overhead panel must be ON for the High Heat switches in the control wheels to be operational. The overhead panel indicator light will cycle as the windshield reaches operational temperature for Low and High Heat modes. Instrument panel High Heat Indicator Lights do not cycle. 3) All Windshield Anti-ice Switches......OFF 5-35 f WING AND EMPENNAGE DEICE SYSTEM 5-35 Have outside observer check inflation of all wing and tail deice boots. The boots will inflate for approximately 6 seconds and then deflate for approximately 2 minutes and 54 seconds. Check for wing de-ice indicator light illuminated during inflation. Turn wing de-ice switch off, then back on, if multiple cycles are required for the observer to check all boots. (Post SB 096/30-004) If indicator light not observed during inflation, check oil temperature above 55 degrees C, then advance condition levers to TAKEOFF LAND and recheck. After checks complete, turn boots off. 5-35 1) Wing De-ice Switch.....ON 5-35 2) Inflation and Deflation of Boots.....VISUAL CHECK a) Wing De-ice Indicator Light......ILLUMINATES

5-35

(DURING INFLATION)

MITSUDISTII	Pilot Checklist	3	section 5
MU-2B-60	Marquise	Normal Pro	cedures
			AFM
			page
3) Wina De-ice Switch	າ	OFF	5-35
, -	or check is not require		
proceed to 13:	ioi onoon io not roquiro	- ,	
12 Overspeed Governor	Chook As	S DECLIIDED	5-12
•	rst flight of the day and fo		5-26
•	ticipated. The overspeed		0 20
	l after control system adji	-	
	indication of malfunction		
a Condition Lever	TAł		
	,	ROPELLERS	
	MUST BE	ON LOCKS)	5-26
b Power Lever		FLIGHT IDLE	5-26
c Power Lever	SLOWL	Y ADVANCE	
		TOWARD	
	TAKEOF	FF POSITION	
	UN	NTIL ENGINE	
	SPEED IS	STABILIZED	5-26
	NOTE		
FOT 1.			Г 00
•	uel flow increase, and R		5-26
•	er is advanced, propelle		
	engine and restart, caref		
prevent start lock dise	rd of the GROUND IDLE	position to	
d Engine Speed			
		GOVERNOR	
	SHOULD	REGULATE	
	EN	GINE SPEED	
	BETW	EEN 103.0%	
	TO	105.0% RPM	5-26
	CAUTION		
1	hammand		
IF ENGINE SPEED F	REACHES 106% RPM, I	MOVE	5-26
	FLIGHT IDLE POSITIO		
	N SHUT DOWN ENGINE		
	D GOVERNOR SETTING		
	FLIGHT. LIMIT OPERA		
	6 RPM TO THE MINIMU		
	KE OVERSPEED GOVE	KNOK	
CHECK.			
DO NOT EVOEED 10	6% RPM AT ANY TIME.		5-26
			5-26
e Repeat for other engir	IE		J-20

Pilot Checklist

Section 5

Mitsubishi

CAUTION

i Repeat steps "a" through "h" on opposite engine

THE CHANGE IN EGT NOTED FOR EACH ENGINE SHOULD BE THE SAME WITHIN 10°C TOLERANCE. IF NOT, THE SRL SYSTEM MUST BE CHECKED AND CORRECTED BEFORE FURTHER FLIGHT.

5-12

5-12

		AFM page
	NOTE	
	The EGT indicators can be observed to suddenly change in value as the engines sweep through 80% RPM, which indicates a functioning SRL System.	5-12
14	FlapsSET FOR	
	TAKEOFF	5-14
	Takeoff setting 5 ° or 20 ° (check weight limit for takeoff) Obtain visual check as well as proper flap position indication.	5-14
	WARNING	
	SINGLE ENGINE CLIMB CAPABILITY MUST BE CHECKED PRIOR TO TAKEOFF USING THE PERFORMANCE INFORMATION IN THE PILOTS OPERATING MANUAL. IF THE GEAR UP CLIMB CAPABILITY IS NOT SUFFICIENTLY POSITIVE, A REDUCTION IN TAKEOFF WEIGHT IS RECOMMENDED. IF THE TAKEOFF WEIGHT IS GREATER THAN THAT FOR POSITIVE CLIMB GRADIENT WITH THE GEAR DOWN AND AN ENGINE FAILS PRIOR TO GEAR RETRACTION OR 75 FT AGL, THE PILOT SHOULD CONSIDER LANDING STRAIGHT AHEAD.	5-14
15	Flight ControlsFREE Check for free movement to the stops	5-8 & 5-14
16	Autopilot	
17	Trim TabsSET Elevator 4° - 6° nose up , rudder 2° left and aileron 1° left.	5-8
18	Avionics	5-14
19	Start LocksDISENGAGE	5-13
а	Condition LeversTAKEOFF LAND	5-13
b	Power LeversMOVE SLOWLY TOWARD REVERSE POSITION.	5-13
	Both BETA RANGE annunciators should extinguish and re-	

illuminate. Increasing fuel flow, torque pressure and EGT

indicate disengagement of propeller locks

Mitsubishi	Pilot Checklist	Section 5
MU-2B-60	Marquise	Normal Procedures

	AFM page
D 01/F0// F0D	5-13
c Power LeversCHECK FOR	5-13
TORQUE INCREASE	
AS POWER LEVERS	
ARE ADVANCED	
ABOVE FLIGHT IDLE	E 10
d Power LeversGROUND IDLE	5-13
e Condition LeversTAXI	5-13 5-26
20 Supplemental NTSCHECK	
a Condition LeverTAXI	5-26/ 5-14
b Power LeverADVANCE UNTIL	5-26
BETA RANGE	
ANNUNCIATOR EXTINGUISHES	
Supplemental NTS check is satisfactory if:	5-26-1/ 5-26-2
1) Beta Range AnnunciatorEXTINGUISHES	5-26-1/
7) Beta Hange AnnunciatorEXTINGOIONES	5-26-2
2) TorqueINCREASE	5-26-1/ 5-26-2
3) RPM StabilizesBELOW 96%	5-26-1/ 5-26-2
WARNING	
IF ENGINE FAILS ANY PART OF THE SUPPLEMENTAL	5-26-1/
NTS CHECK, CORRECT PRIOR TO FLIGHT PER ENGINE MANUAL.	5-26-2
A failed check will typically occur when the rpm stabilizes 6-7% high (i.e., at 101 to 103% rpm).	
c Power LeverRETARD TO	5-26-1/
GROUND IDLE	5-26-2 &
GINOOND IDEE	5-14
d Repeat for other engine	5-26-1/ 5-26-2
21 Annunciator Panel &	
Warning LightsCLEAR a Landing Gear Unsafe Warning LightCHECK	5-14
b Annunciator PanelCHECK	5-14
Fire warning and other warning lights checked out	<u> </u>
22 Landing Lights/Taxi LightsAS REQUIRED	5-14
22 Landing Lights/ raxi LightsAS REQUIRED	.

AFM page 5-13-1/2

PREFLIGHT OPERATION CHECK

ITEM	POWER LEVER	CONDITION LEVER	CHECK ITEMS	
LOW SPEED TAXI	GROUND IDLE	TAXI	Engine Speed must be 76.5% - 78.5% RPM BETA RANGE annunciator normally illuminated Oil Pressure minimum 40 psi Fuel Pressure minimum 15 psi No Caution Lights illuminated	
HIGH SPEED TAXI	GROUND IDLE	TAKEOFF LAND	Engine Speed must be 96% - 97% RPM BETA RANGE annunciator must be illuminated	
REVERSE	REVERSE	TAKEOFF LAND	Engine Speed must be above 94,5% RPM BETA RANGE annunciator must be illuminated	
TAKEOFF	TAKEOFF POWER POSITION	TAKEOFF LAND	Engine Speed must be 99.5% - 101% RPM Oil Pressure must be 70 - 120 psi BETA RANGE annunciator must be extinguished	

	TAXI	
1	Brakes & SteeringCHECK	
а	Parking BrakeOFF Release the parking brake. Leaving the chocks,	5-14
	momentariy depress both brake pedals and note proper brake actuation. Check proper steering response. Proper seat position can be confirmed by making a sharp turn with the rudder pedal to the stops.	
2	Flight Instruments	5-14
3	PowerSET AS REQUIRED (MAINTAIN	
	MINIMUM 76.5% RPM)	5-14

AFM page

BEFORE TAKEOFF

Takeoff performance data is based on holding the brakes while advancing power to 100% Torque or 650 degress EGT, whichever occurs first. Stabilize power setting.

5-15

Once power is stabilized, check engine instruments normal and BETA lights extinguished.

nal

Release the brakes, accelerate to V_{R} and rotate to a normal takeoff pitch attitude, not to exceed 13 degrees pitch.

5-15

5-15

As the aircraft accelerates, power will normally increase about 10%. Power lever position must normally be adjusted to prevent exceeding engine limits.

CAUTION

WHEN MAKING A ROLLING TAKEOFF UNDER TEMPERATURE LIMITED CONDITIONS, ADVANCE POWER LEVERS NO HIGHER THAN 600 ℃ EGT, SINCE EGT WILL INCREASE APPROXIMATELY 50 ℃ DURING TAKEOFF ROLL DUE TO SYSTEM LAG. A ROLLING TAKEOFF SHOULD ONLY BE MADE IF RUNWAY LENGTH AND OBSTACLE CLEARANCE WILL PERMIT.

NOTE

If temperature limited, the EGT system requires 5-15 approximately 20 seconds to stabilize. 1 Lights......AS REQUIRED 5-14 a Landing Lights/Taxi Lights......AS REQUIRED b Strobe Lights......AS REQUIRED -OBSERVE 5-14 PLACARD LIMITATION c Navigation Lights......AS REQUIRED, ON FOR NIGHT FLIGHT 2 De-ice & Anti-ice......AS REQUIRED a Pitot & Static Anti-ice.....ON 5-14 5-14 b Windshield Heat.....LOW c Other Anti-ice Systems......AS REQUIRED 5-14 Other anti-ice systems as required. If icing conditions exist, ensure all anti-ice equipment on. Do not turn wing de-ice

boots on until after takeoff.

		AFM page
	CAUTION	
	ALL ANTI-ICE SYSTEMS MUST BE ON PRIOR TO TAKEOFF IN VISIBLE MOISTURE IF OAT IS +10°C OR COLDER.	5-14
3	TransponderON Select #1 or #2 as desired.	5-14
4 5	Radar	5-14
6	FlapsSET FOR	
	TAKEOFF	5-14
	Takeoff setting 5° or 20° (check weight limit for takeoff) Obtain visual check as well as proper flap position	5-14
	WARNING	
	SINGLE ENGINE CLIMB CAPABILITY MUST BE CHECKED PRIOR TO TAKEOFF USING THE PERFORMANCE INFORMATION IN THE PILOTS OPERATING MANUAL. IF THE GEAR UP CLIMB CAPABILITY IS NOT SUFFICIENTLY POSITIVE, A REDUCTION IN TAKEOFF WEIGHT IS RECOMMENDED. IF THE TAKEOFF WEIGHT IS GREATER THAN THAT FOR POSITIVE CLIMB GRADIENT WITH THE GEAR DOWN AND AN ENGINE FAILS PRIOR TO GEAR RETRACTION OR 75 FT AGL, THE PILOT SHOULD CONSIDER LANDING STRAIGHT AHEAD.	5-14
7	Condition LeversTAKEOFF LAND	5-14 & 5-15
8	FrictionSET	5-14
9	Ignition SwitchesAS REQUIRED	5-15
	CAUTION	
	hammand	E 45
	DO NOT USE IGNITION SWITCH IN AUTO POSITION	5-15

WHEN THE CONDITION LEVER IS AT TAXI.

(IF AUTO IGNITION INSTALLED)

AFM page CAUTION IGNITION SHALL BE SELECTED TO CONT (IF AUTO 5-15 IGNITION INSTALLED) or ON (IF CONTINUOUS IGNITION INSTALLED) DURING TAKEOFF AND CLIMB OUT IN ACTUAL OR POTENTIAL ICING CONDITIONS OR WHERE THERE IS WATER, SLUSH OR SNOW ON THE RUNWAY. 5-14 10 Trim Tabs......SET Elevator 4° - 6° nose up, rudder 2° left and aileron 1° left. 5-14 11 Engine Instruments......CHECK 5-13-1/2 Confirm all engine instruments are in the green range prior to takeoff. Note that extended ground operations on hot days may result in high oil temperatures. If oil temperatures approach the red line, turn the aircraft into the wind, set the parking brake, and advance the power levers to at least flight idle. This will ensure a positive propeller blade angle and provide cooling airflow over the oil coolers. The "Preflight Operation Check" table in the AFM contains some, but not all, normal engine indications for taxi and takeoff. 12 Annunciator Panel & Warning Lights......CLEAR 5-14 a Landing Gear Unsafe Warning Light......CHECK 5-14 b Annunciator Panel......CHECK Fire warning and other warning lights checked out 13 Heading......CHECK

Heading should be compared with assigned takeoff runway.

Mitsubishi	Pilot Checklist	Section 5
MU-2B-60	Marquise	Normal Procedures

						AFM page
	TAKEOFF SPEEDS					
	FLAPS 5°	V_{R}	\mathbf{V}_{50}	\mathbf{V}_{XSE}	\mathbf{V}_{YSE}	
	11,575 LBS	109	120	130	140	
	11,000 LBS	106	120	130	140	
	10,000 LBS	101	120	130	140	
	9,000 LBS	100	120	130	140	
	FLAPS 20°					
	11,575 LBS	105	113	125	135	
	11,000 LBS	103	113	125	135	
	10,000 LBS	100	113	125	135	
	9,000 LBS	100	113	125	135	
	AFTER	TAKEOF	F			5-15
	Maintain pitch attitude (ma	ximum 1	3° nose ι	ıp).		5-15
1	Landing Gear					5-15
	Landing gear should be se					
	rate of climb is established				•	
	land on the remaining runv climb data, before starting	•	•	_		
	extinguished after retractio		. Officer a	ii gear ii	grits	
	_	NOTE				
	If takeoff was made from a cycle the landing gear one shed any ice accumulation	or two ti			•	5-16
2	Landing Light			RET	BACT	5-16
3	Flaps					
Ū	ιαροιιιιιι				DULE	5-16
	After gear retraction compl	ete, retra	ct flaps. If			5-16
	takeoff was elected, retract		•	•		
	minimum, confirm proper flup at 140 knots minimum.	ap indica	tions, the	n select	flaps	
4	•			166	KC V C	5-16
4	Airspeed (normal climb)			133	NUAS	0.0

5 Power			AFM page
If takeoff was made with EGT at 650°C during visible moisture, reduce EGT to 630°C for normal or cruise climb only after gear and flaps are UP and all obstacles have been cleared. Cabin Air	5		E 10
If takeoff was made with EGT at 650°C during visible moisture, reduce EGT to 630°C for normal or cruise climb only after gear and flaps are UP and all obstacles have been cleared. 6 Cabin Air			5-16
moisture, reduce EGT to 630°C for normal or cruise climb only after gear and flaps are UP and all obstacles have been cleared. 6 Cabin Air		NOTE	
only after gear and flaps are UP and all obstacles have been cleared. 6 Cabin Air		If takeoff was made with EGT at 650°C during visible	5-16
been cleared. 6 Cabin Air		moisture, reduce EGT to 630°C for normal or cruise climb	
6 Cabin Air			
7 Ignition Switches	_		E 16
Select CONT (auto ignition installed) or ON (auto ignition not installed) in icing conditions or heavy precipitation. Observe duty cycle limitations. In other than these conditions, select AUTO (auto ignition installed) or OFF (auto ignition not installed) If duty cycle limits prevent operating with CONT during icing conditions, select AUTO.	_		
not installed) in icing conditions or heavy precipitation. Observe duty cycle limitations. In other than these conditions, select AUTO (auto ignition installed) or OFF (auto ignition not installed) If duty cycle limits prevent operating with CONT during icing conditions, select AUTO.	1	Ignition SwitchesAS REQUIRED	
Observe duty cycle limitations. In other than these conditions, select AUTO (auto ignition installed) or OFF (auto ignition not installed) If duty cycle limits prevent operating with CONT during icing conditions, select AUTO.		Select CONT (auto ignition installed) or ON (auto ignition	
installed) or OFF (auto ignition not installed) If duty cycle limits prevent operating with CONT during icing conditions, select AUTO.		, ,	5-18-1
If duty cycle limits prevent operating with CONT during icing conditions, select AUTO.		In other than these conditions, select AUTO (auto ignition	
conditions, select AUTO.		installed) or OFF (auto ignition not installed)	5-18-1
5-16			
		CAUTION	5-16

CAUTION

- 1. IGNITION SHALL BE SELECTED TO CONT (AUTO IGNITION INSTALLED) OR ON (CONTINUOUS IGNITION INSTALLED), WHEN ICE IS VISIBLE ON, OR SHEDDING FROM PROPELLER(S), SPINNER(S), OR LEADING EDGE(S).
- 2. IGNITION SHALL BE SELECTED TO CONT (AUTO IGNITION INSTALLED) OR ON (CONTINUOUS IGNITION INSTALLED), BEFORE SELECTING ANTI-ICE, WHEN ICE HAS ACCUMULATED.
- 3. IGNITION SHALL BE SELECTED TO CONT (AUTO IGNITION INSTALLED) OR ON (CONTINUOUS IGNITION INSTALLED), IMMEDIATELY, ANYTIME ENGINE FLAMEOUT OCCURS AS A POSSIBLE RESULT OF ICE INGESTION.

	AFM
	page
8 De-ice & Anti-iceAS REQUIRED	
(ADD 10% KCAS	
IN ICING)	
All anti-ice and de-ice systems should be on for operations in icing conditions. Wing de-ice should remain in AUTO, except in heavy icing conditions where more frequent ice removal may be required.	
a Wing De-iceAS REQUIRED	5-16
b Anti-ice SystemsAS REQUIRED	5-17
c Pitot & Static Anti-iceON	5-18-1
d Windshield HeatLOW	5-18-1
9 Cabin PressurizationSET	5-17
Set "Airplane Alt At Max Diff." window to cruise altitude plus 1000 feet. Adjust rate control for a comfortable climb.	
10 Engine InstrumentsCHECK	5-17
11 SynchrophaserAS REQUIRED	5-17
VISIBLE MOISTURE ENCOUNTERS	5-17
CAUTION	

DURING ALL OPERATIONS IN VISIBLE MOISTURE,

CAREFULLY MONITOR EGT. DO NOT ALLOW EGT TO

5-18

EXCEED 650°C.

AFM page 5-18

FLIGHT IN ICING CONDITIONS

WARNING

PILOTS SHOULD BE AWARE THAT OPERATION OF THE AUTOPILOT'S VERTICAL MODES MAY RESULT IN AN UNSAFE AIRSPEED IF ICE ACCUMULATES ON THE AIRPLANE.

6 of SUPPLEM ENT NO. 25

IN ORDER TO MINIMIZE ICE ACCUMULATIONS ON UNPROTECTED LOWER SURFACES, MAINTAIN A MINIMUM SPEED OF 180 KIAS DURING OPERATIONS IN SUSTAINED CRUISE IN ICING CONDITIONS.

5-18-1

IF UNABLE TO MAINTAIN 180 KIAS AT MAXIMUM CONTINUOUS POWER, A CHANGE OF ALTITUDE AND/OR COURSE MAY BE NECESSARY TO MAINTAIN MINIMUM AIRSPEED AND/OR EXIT THE ICING CONDITIONS.

DURING LANDING, DO NOT SELECT 40 ° FLAPS WHEN OPERATING IN ICING CONDITIONS.

	CLIMB (18000') / CRUISE	5-18-1
1	Taxi LightsOFF	5-16
2	Cabin SignAS REQUIRED	5-16
	Normally, OFF for cruise. However, in turbulence, cabin sign should remain ON.	
3	AltimetersSET	5-18-1
	Local altimeter setting, or 29.92, as appropriate.	
4	Cabin PressurizationCHECK	5-18-1
5	Fuel Balance and TransferCHECK	5-18-1
	Maintain fuel balance within 150 pounds. A faster feeding fuel tank may be turned off to allow the slow tank to catch up. After tip tanks and outer tanks are empty, turn fuel transfer switches off.	5-18-1
6	Generator LoadCHECK	5-18-1
7	Anti-ice/De-ice SystemsAS REQUIRED (180 KIAS	
	MINIMUM IN ICING)	5-18-1
а	Pitot & Static Anti-iceON	5-18-1
b	Windshield HeatLOW	5-18-1
8	Oxygen/Crew MaskCHECK	5-18-1

		AFM page
9	PowerSET AS REQUIRED	
	(96% RPM TO 98% RPM)	5-18-1
	CAUTION	
	hammand	
	DO NOT MOVE CONDITION LEVER BELOW MIN CRUISE DURING FLIGHT EXCEPT TO FEATHER A FAILED ENGINE .	5-18-1
10	Engine InstrumentsMONITOR	5-18-1
	DESCENT	5-18-2
1	Cabin AltitudeSET	5-18-2
	Set Cabin Pressure Controller pointer to field elevation plus 1000'. Adjust rate control knob so that the airplane will be fully depressurized prior to landing. Generally, a 300 to 500 fpm cabin descent rate will be comfortable and ensure proper depressurization.	
2	Fuel Transfer Control SwitchesTIP MANUAL OR OFF	5-18-2
	CAUTION	
	Select TIP MANUAL or OFF to prevent operation of outer fuel transfer pumps during-descent.	5-18-2
3	AltimetersSET	5-18-2
4	Windshield DefogAS REQUIRED	5-18-2
5	Ignition Switches	5-18-2
	In other than these conditions, select AUTO (auto iginition installed) or OFF (continuous ignition installed.)	
	CAUTION	
	IGNITION SHALL BE SELECTED TO CONT (IF AUTO IGNITION INSTALLED) OR ON (IF CONTINUOUS IGNITION INSTALLED) DURING APPROACH AND LANDING WHILE IN OR SHORTLY FOLLOWING FLIGHT	5-18-2

IN ACTUAL OR POTENTIAL ICING CONDITIONS.

		AFM page
6	Anti-ice/De-iceAS REQUIRED (ADD 10% KCAS IN ICING)	5-18-2 & 5-19
	Pitot & Static Anti-iceON Windshield HeatLOW If descent through icing conditions is anticipated, turn on all anti-ice and de-ice equipment.	5-18-2 5-18-2
7	Taxi Lights	
	APPROACH	5-18-2
1	Recommended landing flap setting is flap 20° although flap 40° is available. Compute landing weight, V_{REF} for selected flap position, and landing distance. Other landing data may be required depending upon the circumstances. Refer to the performance section of the AFM. For landing with a crosswind, adjust V_{REF} by one half the steady state wind plus all of the gusts, not to exceed V_{REF} plus 10 knots. When landing with any ice accumulation on the wing, increase the computed V_{REF} by 15 knots. When landing with an asymmetric fuel condition, increase computed V_{REF} by 10 knots. Approach speeds should not be below V_{REF} (adjusted) until landing flare.	5-18-2
2	Fuel Quantity/BalanceCHECK - IN LIMITS Tip fuel must be below 400 pounds or an overweight landing inspection will be required. Balance within 150 pounds.	5-18-2
3	SynchrophaserOFF	5-18-2
4	Differential PressureZERO Confirm cabin will be depressurized prior to landing.	5-18-2
5	Condition LeversTAKEOFF LAND Provides maximum thrust in the event of a go-around.	5-18-2/ 5-19
6	PowerAS REQUIRED	5-18-2
7	Flaps5 ° (BELOW	_
	175 KCAS)	5-18-2
8	Airspeed	5-18-2 5-18-2
9	Cabin SignON Brief passengers.	5-18-2

Section 5

Mitsubishi	Pilot Checklist	Section 5
MU-2B-60	Marquise	Normal Procedures

	AFM page
10 Anti-ice SystemAS REQUIRED	
(ADD 10% KCAS	
IN ICING)	5-18-2
a Pitot & Static Anti-iceON	5-18-2
b Windshield HeatLOW	5-18-2
11 Landing LightsAS REQUIRED	
	5-18-2

LANDING THRESHOLD SPEED (V_{REF})

WEIGHT	FLAPS 20°	FLAPS 40°
11025 LBS	110	119
10500 LBS	108	116
10000 LBS	105	114
9500 LBS	102	111
9000 LBS	100	108

BEFORE LANDING

5-18-3/ 5-18-4

WARNING

USE OF 40 ° FLAPS FOR LANDING CONSIDERABLY RESTRICTS THE GO AROUND CAPABILITY SHOULD AN ENGINE FAILURE OCCUR IN THE APPROACH OR LANDING PHASE.

5-18-3/ 5-18-4

DURING LANDING, DO NOT SELECT 40 ° FLAPS WHEN OPERATING IN ICING CONDITIONS. THE FAA HAS DETERMINED THAT ICE ACCUMULATIONS ON THE TAIL PLANE OF MANY AIRCRAFT MAY RESULT IN A REDUCED DOWN FORCE ON THE HORIZONTAL STABILIZER WHEN FULL FLAPS ARE USED. THIS REDUCED DOWN FORCE MAY RESULT IN THE AIRCRAFT PITCHING NOSE DOWN.

5-18-3/ 5-18-4

AFM page

NOTE

It is strongly recommended that the airplane be established on a stable approach for the last 1000 feet of descent in IMC conditions (or for the complete final approach segment of a non precision approach if that segment is less than 1000 feet above the field) or the last 500 feet of descent in VMC conditions. A stable approach means that the airplane is configured for landing, all checklists have been completed, power is established at a setting to maintain an airspeed of $V_{\rm REF}$ to $V_{\rm REF}$ plus 20 knots, the airspeed is steady at $V_{\rm REF}$ to $V_{\rm REF}$ plus 20 knots, the proper glide path is being maintained, the airplane is trimmed, and no unusual maneuvering is required to accomplish the landing. A missed approach is recommended if deviation from any of these parameters occurs.

5-18-2 1 Landing Gear.....DOWN Ensure 3 green landing gear position lights illuminated and the red unsafe light extinguished. If a gear malfunction occurs, emergency extension may be required. Maximum speed for normal extension is 175 KCAS. 2 Brakes......CHECK Depress brake pedals, check firm pressure. 3 FlapsAS REQUIRED 5-18-3/5-18-4 NOTE It is recommended to set the flap switch at 5° position and 5-18-2 confirm the 5° indication light illuminates before going to 20° position. Recommended landing is with flap 20° although flap 40° is available.

4 Ignition SwitchesAS REQUIRED

5-18-3/

5-18-4

AFM page

CAUTION

IGNITION SHALL BE SELECTED TO CONT (IF AUTO IGNITION INSTALLED) OR ON (IF CONTINUOUS IGNITION INSTALLED) WHERE THERE IS WATER, SLUSH OR SNOW ON THE RUNWAY.

5-18-3/ 5-18-4

CONT or ON if runway is contaminated, raining, or in icing conditions. Also, CONT or ON shortly following exit from icing conditions whenever ice remains forward of the engine nacelle. (Observe ignition duty cycle limits). Otherwise, for aircraft with auto ignition installed, AUTO.

5 Wing De-ice......OFF 5-19

NOTE

If wing deice system is in Automatic mode during approach, cycle system OFF then ON to allow one additional cycle, then select the system OFF prior to landing.

5-19

6 Autopilot/Yaw Damper.....OFF Refer to Autopilot supplement in AFM.

AFTER LANDING

5-20

Maintain directional control by rudder pedals and differential braking if necessary

5-20

Recommend that the pilot does not begin the following checklist until clear of the runway and established at normal taxi speed.

1 Power LeversGROUND IDLE

5-20

2 Beta Range AnnunciatorsILLUMINATED

5-20

5-20

CAUTION

Ensure that both BETA RANGE annunciators are illuminated before selecting reverse after touchdown or asymmetrical reverse thrust may result. The nose wheel must be on the ground and airspeed below 90 KCAS before selecting reverse.

3 Power LeversREVERSE (AS REQUIRED)

5-20

	AFM page
4 Power LeversGROUND IDLE WHEN REVERSING COMPLETED	ì
CAUTION	
DO NOT RETARD CONDITION LEVERS BELOW TAKEOFF LAND POSITION UNLESS POWER LEVERS ARE OUT OF REVERSE.	5-20
5 Ignition SwitchesOFF	5-20
CAUTION	
DO NOT RETARD CONDITION LEVERS BELOW	5-20
TAKEOFF AND LAND UNLESS IGNITION SWITCHES ARE OFF.	
6 Condition LeversTAX	j 5-20
After completion of landing ground roll. Recommend starting the clock in order to time 3 minute cool down.	
7 Anti-iceOFI	5-20
8 LightsAS REQUIRE	
a Landing Lights/Taxi LightsAS REQUIRE	
	, 020
	,
b Strobe LightsOFF	,
b Strobe LightsOFI Do not operate strobe lights in the vicinity of other aircraft.	5-20
b Strobe LightsOFF Do not operate strobe lights in the vicinity of other aircraft. 9 Rader & TransponderSTANDBY	5-20
b Strobe LightsOFI Do not operate strobe lights in the vicinity of other aircraft. 9 Rader & TransponderSTANDBY 10 FlapsAS REQUIRED	5-20 5-20 5-20
b Strobe LightsOFI Do not operate strobe lights in the vicinity of other aircraft. 9 Rader & TransponderSTANDBY 10 FlapsAS REQUIRED Flaps should be in the up position if airplane is to be parked	5-20 5-20 5-20
b Strobe LightsOFI Do not operate strobe lights in the vicinity of other aircraft. 9 Rader & TransponderSTANDBY 10 FlapsAS REQUIRED	5-20 5-20 5-20
b Strobe LightsOFF Do not operate strobe lights in the vicinity of other aircraft. 9 Rader & TransponderSTANDBY 10 Flaps	5-20 7 5-20
b Strobe Lights	5-20 7 5-20
b Strobe Lights	5-20 7 5-20
b Strobe Lights	5-20 5-20 5-20
b Strobe Lights	5-20 5-20 5-20 5-20 5-20
b Strobe Lights	5-20 5-20 5-20 5-20 5-20 5-20
b Strobe Lights	5-20 5-20 5-20 5-20 5-20 5-20

		AFM page
	NOTE	
	Engine rpm and EGT will increase momentarily after placing Run-Crank-Stop Switch to STOP.	5-20
b	Power Levers MOVE POWER LEVERS TO REVERSE POSITION AS ENGINE RPM DECELERATES TO 50% TO POSITION PROPELLERS ON LOCKS	5-20
4	Parking Brake	5-20
	Overhead Switch PanelOFF	
а	Cabin SignOFF	5-20
6	Oxygen Outlet ValveCLOSED	5-21
7	Cabin Air SelectorOFF	5-20
8	Fuel Transfer SwitchOFF	5 04
9	DC Generator SwitchesOFF	5-21
	Inverter SwitchOFF	5-21
11	Other SwitchesOFF (EXCEPT	
	MAIN FUEL	F 04
	VALVES AND SRL)	5-21
	Battery Key SwitchOFF	E 04
	Flight Control Lock	5-21
14	Oxygen Cylinder ValveCLOSED	5-21

AFM page

		page
	SECURING	
1	ChocksINSTALL	
2	Nose Gear Torque LinkDISCONNECT	
	NOTE	
	The torque link must be disconnected for towing. However, if towing is completed, the torque link may be reconnected to provide rudder gust lock protection.	
3	Plugs & CoversINSTALL	5-21
4	Parking BrakeOFF	
	After the airplane is properly chocked.	
5	Bag & Cabin LightsOFF	
	Ensure all lights are off in order to not deplete the batteries.	
	TURNAROUND	5-21
	If engine restarts are anticipated in 10 to 45 minutes:	5-21
1	Park airplane into wind if possible	5-21
2	Manually turn engine rotating group in direction of normal rotation occasionally to minimize thermal distortion.	5-21
	NOTE	
	One blade width movement turns rotating group about 180 °.	5-21
3	Continue these procedures until engine restart required	5-21
	j	
	CAUTION	
	DO NOT ATTEMPT TO START AN ENGINE WITH	5-21
	DO NOT ATTEMPT TO START AN ENGINE WITH	J-Z I
	THERMAL DISTORTION. ACCELERATION MAY	5-21
		J-21

ENGINE ROTATING GROUP DAMAGE MAY OCCUR.

		AFM page
	CRANKING	5-26-1/ 5-26-2
	Complete BEFORE STARTING ENGINES Checklist before using this procedure:	5-26-1/ 5-26-2
1	Battery Select SwitchPARALLEL OR SERIES	5-26-1/ 5-26-2
2	Main Fuel Valve SwitchesOPEN	5-26-1/ 5-26-2
3	Run-Crank-Stop SwitchCRANK	5-26-1/ 5-26-2
4	Start Selector SwitchLH GND START OR RH GND START	5-26-1/ 5-26-2
5	Engine Start SwitchPRESS AND HOLD	5-26-1/ 5-26-2
	When RPM stagnates:	
6	Engine Start SwitchRELEASE	5-26-1/ 5-26-2
	NOTE	
	Release starter when rpm stagnates. Allow rotation to stop before attempting another cranking.	5-26-1/ 5-26-2
	CAUTION	
	DO NOT EXCEED STARTER DUTY CYCLE LIMITS.	5-26-1/ 5-26-2

Pilot Checklist Marquise

Section 5
Normal Procedures

AFM page

INFLIGHT NTS CHECK (FEATHERING OPERATION)

paye

5-26-1/ 5-26-2

CAUTION

IF PRACTICE ENGINE SHUTDOWNS AND AIRSTARTS ARE PLANNED, OVERSPEED GOVERNOR (OSG) AND NEGATIVE TORQUE SENSOR (NTS) CHECKS MUST BE ACCOMPLISHED PRIOR TO FLIGHT.

5-26-1/ 5-26-2

WARNING

INTENTIONAL SIMULATED ENGINE FAILURES SHOULD NOT BE ACCOMPLISHED AT SPEEDS LESS THAN 125 KCAS.

5-26-1/ 5-26-2

This check required after certain maintenance functions by the engine maintenance manual. Check with maintenance prior to flight. The pilot should be thoroughly familiar with the procedure or request assistance from a pilot familiar with the procedure.

On Engine to be Shutdown:

5-27

1 Recommended Airspeed.......150-180 KCAS
2 Recommended Altitude......5000 FT AGL MIN,
DAY - VFR ONLY

-R ONLY OFF 5-27

3 Synchrophaser.....OFF
4 Power Lever......FLIGHT IDLE

5-27

Zero thrust for 1 minute. Establish power on other engine and trim to maintain desired airspeed.

5 DC Generator Switch......OFF

5-27

6 Amperage......CHECK
If more than 200 amps on remaining generator, reduce load
within limits before shutting engine down.

7 Bleed Air (engine to shutdown).....OFF

AFM page

9 Run-Crank-Stop SwitchSTOP (HOLD

TO 50% RPM)

5-27

Start a timer. A properly functioning NTS will reduce engine rpm to 35% within 60 seconds. If the aircraft yaws excessively, feather the propeller immediately with the condition lever and set the power lever fully forward (Beta follow up position) to minimize propeller drag. Do not restart the engine. Complete engine shutdown and single engine landing procedure.

10 Condition Lever......EMERGENCY
STOP

(AT 30% RPM) 5-27

NOTE

The feathered propeller should not rotate any significant amount between 120 KCAS and 180 KCAS. If windmilling exceeds 5% RPM reduce airspeed (if feasible). If windmilling is in a reverse direction reduce airspeed (if feasible).

5-27

CAUTION

DO NOT ALLOW FEATHERED ENGINE TO ROTATE IN A REVERSE DIRECTION.

5-27

5-27

If a prolonged shutdown is anticipated, some propeller windmilling (below 5% RPM) is desirable to equalize cooling if EGT is above 200 degrees C. The following is permissible if propeller is not rotating:1) Place condition lever to the Minimum Cruise Detent, and 2) press the unfeather switch as required to achieve minimum windmill (maximum 5% until EGT is below 200 degrees C. Once the EGT is below 200 degrees C or the rpm exceeds 5%, place the condition lever to Emergency Stop.

CAUTION

AVOID OPERATION BETWEEN 18% AND 28% RPM EXCEPT FOR TRANSIENTS OCCURING DURING ENGINE START AND SHUTDOWN.

5-27

		AFM page
	WARNING	
	PLACE SHUTDOWN ENGINE POWER LEVER AND CONDITION LEVER IN CORRECT POSITION FOR AIRSTART AS SOON AS POSSIBLE SHOULD AN IMMEDIATE RESTART BE REQUIRED.	5-27
11	AirstartACCOMPLISH	5-27
	SYSTEM OPERATION	5-28
(1)	SYNCHROPHASER	5-28
	NOTE	
1	Do not operate synchrophaser during takeoff and landing EnginesSYNCHRONIZE	5-28
	MANUALLY	
	(99.5% MAXIMUM)	5-28
	Synchrophaser Control SwitchON To Change Blade Relationship	5-28
Ü	Between PropellersADJUST PHASE	
	SELECT	
	AS NECESSARY	5-28
	CAUTION	
	TURN SYNCHROPHASER OFF PRIOR TO MOVING CONDITION LEVERS TO PREVENT RPM SURGE ON BOTH ENGINES. TO CHANGE RPM SETTING, MOVE CONDITION LEVERS AND SYNCHRONIZE MANUALLY, THEN TURN SYNCHROPHASER ON.	5-28
	NOTE	
	Failure to maintain synchronization indicates trim has reached its limit. When the switch is OFF, the trim will return to the center position. The phase select allows changes of blade relationship, for noise control, between	5-28

propellers while synchronized.

		AFM page
(2)	ENGINE CONTINUOUS IGNITION SYSTEM	5-28
(~)	(If Auto Ignition System is not installed)	5-28
	The continuous ignition system, which operates engine ignition manually, shall be selected to ON during takeoff, landing or flight in severe weather conditions, especially all operations in actual or potential icing conditions described herein and where there is water, slush or snow on the runway.	5-28
	CONTINUOUS IGNITION SWITCHES SHOULD BE ON:	5-28
	1. During takeoff and climb out in actual or potential icing conditions.	5-28
	2. When ice is visible on, or shedding from propeller(s), spinner(s), or leading edge(s).	5-28
	3. Before selecting ANTI-ICE, when ice has accumulated.	5-28
	4. Immediately, anytime engine flameout occurs as a possible result of ice ingestion.	5-28
	5. During approach and landing while in or shortly following flight in actual or potential icing conditions or where there is water, slush or snow on the runway.	5-28
	NOTE	
	Potential icing conditions in precipitation or visible moisture meteorological conditions;	5-28
	1. Begin when the OAT is plus 10 degrees C (plus 50 degrees F) or colder, and	5-28
	2. End when the OAT is plus 10 degrees C (plus 50 degrees F) or warmer.	5-28
	OPERATION:	5-29
1	Continuous IgnitionsON	5-29
2	Both Indicator LightsILLUMINATED	5-29
	RECOMMENDED DUTY CYCLES	5-29

	AFM page
Applicable to 868962-1/-2 Ignition Unit:	5-29
(Engine not modified by GTEC S/B TPE/TSE 331-74-0003)	5-29
1 Minute Cycles	5-29
First Cycle 1 MINUTE ON -	
1 MINUTE OFF	5-29
Repetitive Cycles 1 MINUTE ON -	
1 MINUTE OFF	5-29
2 Minute Cycles	5-29
First Cycle2 MINUTES ON -	
2 MINUTES OFF	5-29
Repetitive Cycles2 MINUTES ON -	
23 MINUTES OFF	5-29
5 Minute Cycles	5-29
First Cycle5 MINUTES ON -	
55 MINUTES OFF	5-29
Repetitive Cycles5 MINUTES ON -	
55 MINUTES OFF	5-29
Applicable to 868962-3 Ignition Unit:	5-29
(Engine modified by GTEC S/B TPE/TSE 331-74-0003 and	5-29
not modified by GTEC S/B TPE/TSE 331-75-0004)	
not modified by GTEC S/B TPE/TSE 331-75-0004) Up to one hour continuous duty. The total ON cannot	5-29
Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF.The one hour ON	5-29
Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON can be either continuous or intermittent.	
Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF.The one hour ON	5-29 5-29
Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON can be either continuous or intermittent. (Engine modified by GTEC S/B TPE/TSE 331-74-0003 and	
Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON can be either continuous or intermittent. (Engine modified by GTEC S/B TPE/TSE 331-74-0003 and GTEC S/B TPE/TSE 331-75-0004) Above +50 degrees F (+10°C) ambient temperature. Up to one hour continuous duty. The total ON cannot	5-29
Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON can be either continuous or intermittent. (Engine modified by GTEC S/B TPE/TSE 331-74-0003 and GTEC S/B TPE/TSE 331-75-0004) Above +50 degrees F (+10°C) ambient temperature. Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON	5-29 5-29
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Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON can be either continuous or intermittent. (Engine modified by GTEC S/B TPE/TSE 331-74-0003 and GTEC S/B TPE/TSE 331-75-0004) Above +50 degrees F (+10°C) ambient temperature. Up to one hour continuous duty. The total ON cannot exceed one hour without one hour OFF. The one hour ON can be either continuous or intermittent.	5-29 5-29 5-29
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		AFM
		page
(3)	AUTO IGNITION SYSTEM	
	(If Auto Ignition System is installed)	5-30
	1. The Ignition System is activated by a torque pressure switch sensing the high pressure output of the hydraulic torque sensor. If the engine flames out, the torque pressure drops rapidly below the torque switch set point, thus turning on the ignition. Following relight, the ignition is deactivated as the torque pressure goes above the switch set point pressure. The system is deactivated unless the CRANK-RUN-STOP switch is in the "RUN" position.	5-30
	2. During ignition operation, the yellow LH IGNITION or RH IGNITION annunciator is illuminated.	5-30
	3. The Auto Ignition System shall be placed in AUTO for all normal flight conditions.	5-30
	4. The Auto Ignition System shall be placed in CONT (within duty cycle limitations) for all flight in icing conditions. This operation shall be conducted prior to turning on the engine intake anti-ice switch especially if inadvertent icing is encountered.	5-30
ΑU	TOMATIC OPERATION:	5-30
1	Ignition SwitchesAUTO	5-30
2	Annunciator LightsEXTINGUISHED	5-30
	NOTE	
	The ignition annunciators may illuminate under some low power conditions. Increase power as required to extinguish the annunciators.	5-30
co	NTINUOUS OPERATION:	5-30
1	Ignition SwitchesCONT	5-30
2	Annunciator LightsILLUMINATED	5-30
	CAUTION	
	OPERATIONAL TIMES IN EXCESS OF THE DUTY CYCLE WILL DECREASE THE LIFE OF IGNITERS AND IGNITION UNIT.	5-30

IVIILS	udistii	Pilot Checklist	,	Section 5
MU-	-2B-60	Marquise	Normal Pr	ocedures
				A = 1.4
				AFM page
/A\	FUEL TRANSFER OVO	TC14		5-30
(4)	FUEL TRANSFER SYS AUTO FUEL FEED	I EIVI		5-30
1	L and R Fuel Transfer S	Switches	ALITO	5-30
ļ	L and it i del Transier S		A010	
		NOTE		
	If the tip and outer tanks			5-30
	automatically feed to the		•	
	the outer tanks are emp EMP lights will illuminate	-	TER FUEL	
	· ·		Analan will	
	Both tip tanks must be a begin to transfer.	emply before the outer	tanks will	
2	Appropriate Fuel Transf	er		
_	Control Switch		OFF	5-30-1
		NOTE		
	Extended cruise above			5-30-1
	amount of residual fuel in nose up pitch attitude as			
	recover the fuel, place to	•	•	
	during descent at near l	•		
(5)	AIR CONDITIONING A	ND PRESSURIZATION	N.	
(0)	SYSTEM		•	
HE	ATING/COOLING/PRES	SURIZATION:		5-30-1
1	Manual Pressure Contro	ol ValveFUL	L INCREASE	5-30-1
2	Auto-Manual Selector S	witch	AUTO	5-30-1
3	Cabin Supply Air Tempe			
	Selector			5-30-1
4	Cabin Air Selector Switch		•	5-30-1
		RH A	AS DESIRED)	

5 Cabin Altitude Selector Knob......AS DESIRED

6 Cabin Rate Control Knob......AS DESIRED

7 Cabin Air Outlet Select Switch......AS DESIRED

KnobNORMAL

Selector.....FULL COLD or Auto-Manual Selector Switch.....MANUAL COLD

2 Air Outlets.....OPEN

Pilot Checklist

Section 5

Mitsubishi

8 Forward Conditioned Air Outlet

1 Cabin Supply Air Temperature

MAXIMUM COOLING:

5-30-1 5-30-1

5-30-1

5-30-1 5-30-1

5-30-1

5-30-1 5-30-1

(CEILING OR FLOOR)

		AFM
		page
MA	XXIMUM HEATING:	5-30-2
1	Cabin Supply Air Temperature	
	SelectorFULL HOT	5-30-2
	or Auto-Manual Selector SwitchMANUAL HOT	5-30-2
	Air OutletsOPEN	5-30-2
FO	RCED VENTILATION:	5-30-2
1	Cabin Air Selector SwitchBOTH	5-30-2
2	Manual Pressure Control ValveDECREASE	5-30-2
	NOTE	
	Cabin differential pressure will reduce in proportion to the position of the control valve.	5-30-2
RA	M AIR VENTILATION:	5-30-2
1	Manual Pressure Control ValveDECREASE	5-30-2
	UNTIL CABIN	
	DIFFERENTIAL	
	PRESSURE	
	IS ZERO	
2	Auto-Manual Selector SwitchOFF	5-30-2
3	Cabin Air Selector SwitchRAM	5-30-2
	CAUTION	
	USE OF OXYGEN IS RECOMMENDED ABOVE 10,000	5-30-2
	FEET PRESSURE ALTITUDE.	
wı	NDSHIELD DEFOG SYSTEM:	5-31
1	Cabin Air Selector SwitchBOTH	5-31
2	Forward Conditioned Air Outlet	
_	KnobDEFOG	5-31
	If sufficient defogging cannot be obtained:	5-31
3	Cabin Supply Air Temperature	
•	SelectorFULL HOT	5-31
	or Auto-Manual Selector SwitchMANUAL HOT	5-31

MU-2B-60	Marquise	Normal Procedures
		AFM
		page
(6) OXYGEN SYSTEM		5-31
PILOT, COPILOT, 9-	PASSENGERS MAXIMU	JM 5-31
Į	WARNING	
NO OXYGEN CAN E OUTLETS. PRESSU REGULATOR GAUG	HE OXYGEN CYLINDEI E SUPPLIED TO THE M RE MAY BE INDICATED E IN THE COCKPIT WI OSED. CHECK PRIOR	IASK O ON THE TH THE
SYSTEM USAGE:		5-31
1 Cockpit Outlet Valve		FULL OPEN 5-31
2 Oxygen Mask		NSERT HOSE
		IN OUTLET,
		ATE 1/4 TURN
		OCKWISE TO
		NT POSITION D DON MASK 5-31
3 Flow Indicator	AN CONF	D DOIN WINTOIN
3 Flow indicator	OUNF	FLOW BY
	ΔRSF	ENCE OF RED
		E INDICATOR
	Liiv	IN HOSE 5-31
	,	
	CAUTION	
NOT BEING SUPPLI CONNECTIONS. EN PRESENT DURING	IDICATOR IS VISIBLE, C IED.RECHECK VALVES ISURE NO IGNITION SC OXYGEN USE (I.E. SMC RAGS AND/OR CLOTHE	AND HOSE DURCES ARE DKING
AFTER USING:		5-31
 Cockpit Outlet Valve 		CLOSE 5-31
3 Oxygen Cylinder Shu	toff Valve	CLOSE

Pilot Checklist

Section 5

Mitsubishi

(AFTER LANDING) 5-31

Mitsubishi Pilot Checklist Section 5 MU-2B-60 Marquise Normal Procedures

OXYGEN DURATION CHART - 22CU.FT.CYLINDER (622 LITERS)	AFM page 5-32
TIME TABLE	5-32

OXYGEN DURATION CHART - 22 CU. FT. CYLINDER (622 LITERS)

PERSONS	DURATION IN HRS. AND MIN. AT FOLLOWING ALTITUDES			:S
USING	15,000 FT	20,000 FT	25,000 FT	31,000 FT
1	4 hr. 13 min.	3 hr. 22 min.	2 hr. 50 min.	2 hr. 27 min.
2	2 hr. 6 min.	1 hr. 41 min.	1 hr. 25 min.	1 hr. 13 min.
3	1 hr. 24 min.	1 hr. 7 min.	56 min.	49 min.
4	1 hr. 3 min.	50 min.	42 min.	36 min.
5	50 min.	40 min.	34 min.	29 min.
6	42 min.	33 min.	28 min.	24 min.
7	36 min.	28 min.	24 min.	21 min.
8	31 min.	25 min.	21 min.	18 min.
9	29 min.	22 min.	18 min.	16 min.
10	25 min.	20 min.	17 min.	14 min
11	23 min.	18 min.	15 min.	13 min.

(7)	PITOT AND STATIC ANTI-ICE SYSTEM	5-32
	light Operation - Prior to Flight Into Known Icing	5-32
Col	nditions:	
1	Pitot & Static Anti-ice SwitchesON	5-32
2	Loadmeter Select SwitchLH PITOT AND	
	STATIC POSITION	5-32
3	Loadmeter Operating Range	5-32
4	Loadmeter Select SwitchRH PITOT AND	
	STATIC POSITION	5-32
5	Loadmeter Operating Range	5-32
6	Pitot & Static Anti-ice SwitchesON	5-32
(8)	STALL WARNING ANTI-ICE SYSTEM	5-33
Infl	light Operation - Prior to Flight Into Known Icing	5-33
Col	nditions:	
1	Stall Vane Anti-ice SwitchON	5-33
2	Loadmeter Select SwitchSTALL VANE	5-33
3	Loadmeter Operating Range30 TO .70	5-33

		AFM page
	jannanan	
	CAUTION	
	ICE ACCUMULATION ON THE WING DEICE BOOT MAY DISRUPT AIR FLOW OVER THE STALL VANE AND PREVENT THE SYSTEM FROM PROVIDING ACCURATE STALL WARNING.	5-33
4	Stall Vane Anti-ice SwitchAS REQUIRED	5-33
(9)	PROPELLER ANTI-ICE SYSTEM	5-33
	light Operation - Prior to Flight Into Known Icing nditions:	5-33
1	Propeller De-ice SwitchesON	5-33
2	Loadmeter Select SwitchPOSITION TO	
	LH PROP	5-33
	Loadmeter Operating Range85 TO 1.05	5-33
4	Loadmeter Select SwitchPOSITION TO	5-33
_	RH PROP	5-33
5	Loadmeter Operating Range	0 00
	NOTE	
	The loadmeter will fluctuate in about 30 second cycles as power shifts to heater mats on other blades.	5-33
6	Propeller De-ice SwitchesAS REQUIRED	5-33
(10) ENGINE INTAKE AND OIL COOLER AIR INTAKE	
	ANTI-ICE SYSTEM	5-33
	light Operation - Prior to Flight Into Known Icing nditions:	5-34
1	Engine Intake Anti-ice SwitchesON	5-34
2	Indicator LightsILLUMINATE	5-34
	CAUTION	
	MAXIMUM 10 SECONDS OPERATION FOR TEST PURPOSES WHEN THE OAT IS 10°C (50°F) OR HIGHER.	5-34
	NOTE	
	This is true whether visible moisture is present or not.	5-34
3	Oil Cooler Inlet Anti-ice	
	SwitchesON	5-34
4	3	5-34
5	Engine Intake and Oil Cooler	E 24
/4 4	Anti-Ice SwitchesAS REQUIRED	5-34 5-35
) HEATED WINDSHIELD ANTI-ICE SYSTEM FLIGHT OPERATION:	5-35 5-35
41	Windshield heat shall be on LOW for all normal flight	5-35
	operations.	

CAUTION

WINDSHIELD HI HEAT FOR ICE REMOVAL ONLY. STANDBY COMPASS INDICATION IS NOT CORRECT WHEN THE WINDSHIELD HEAT IS ON.

(12) WING AND EMPENNAGE DEICE SYSTEM 5-35 5-35 **INFLIGHT OPERATION:** 5-35 1 Wing Ice Light Switch.....ON (AT NIGHT)

At the first sign of ice formation anywhere on the aircraft, or upon annunciation from an ice detector system, whichever occurs first.

5-35 2 Wing De-ice Switch.....ON a Indicator Light......ILLUMINATES 5-35 (DURING INFLATION)

NOTE

5-35 System will cycle at approximately three minute intervals, with indicator light illuminating during boots inflation.

3 Ice Accumulation on Wing Leading Edge.....MONITOR 5-35

4 Wing De-ice Switch.....OFF AFTER LEAVING

> AND AIRCRAFT IS CLEAR OF **ACCUMULATED**

ICING CONDITIONS

5-35 ICE

SEVERE ICING CONDITIONS: 1 Wing De-ice Switch......MANUALLY CYCLE - 6 SECONDS ON, 10 SECONDS OFF 5-36

NOTE

Manual cycles more frequent than above will decrease deice boot capability.

5-36

5-36

5-35

5-35

BLENDING ANTI-ICE ADDITIVE TO FUEL

Approved fuel system icing inhibitor conforming to MIL-I-27686 must be added to the fuel in all tanks, unless fuel is premixed. The icing inhibitor must be added during refueling to be soluble in the fuel, but not in excess of 0.15% maximum by volume.

Premixed fuel containing icing inhibitor is available and caution must be exercised so that additional icing inhibitor is not added. When using premixed fuel, disregard the following procedures.

BLENDING PROCEDURES:

CAUTION

JP-4 FUEL PER MIL-T-5624 HAS ANTI-ICING ADDITIVE PER MIL-I-27686 BLENDED IN THE FUEL AT THE REFINERY AND NO FURTHER TREATMENT IS NECESSARY. SOME FUEL SUPPLIERS BLEND ANTI-ICING ADDITIVE IN THEIR STORAGE TANKS. PRIOR TO REFUELING, CHECK WITH THE FUEL SUPPLIER TO DETERMINE WHETHER OR NOT THE FUEL HAS BEEN BLENDED. TO ASSURE PROPER CONCENTRATION BY VOLUME OF FUEL ON BOARD, BLEND ONLY ENOUGH ADDITIVE FOR THE UNBLENDED FUEL.

5-36

5-36

5-36

5-36

5-36

AFM page

5-36

5-37

5-37

5-37

5-37

5-37

5-37

5-37

5-37

WARNING

HI-FLO PRIST MAY BE HARMFUL IF INHALED OR SWALLOWED. USE ADEQUATE VENTILATION. AVOID CONTACT WITH SKIN AND EYES. IF SPRAYED INTO EYES, FLUSH WITH LARGE AMOUNTS OF WATER AND CONTACT A PHYSICIAN IMMEDIATELY.

1 Using HI-FLO PRIST blender manufactured by PPG INDUSTRIES, INC., remove actuator cap.

2 Press valve button (attached to tube and clip assembly) into valve on top of can.

3 Reattach actuator cap by positioning onto can.4 Place clip with tubing onto fuel nozzle.

5 To start flow, press actuator down fully. To stop flow, press tilt to side and return to normal position.

6 Use can upright and start flow of PRIST after refueling begins (refueling should be at a minimum rate of 30 gal/min. to a maximum of 60 gal/min.). A rate of less than 30 gal/min. may be used when topping off tanks.

7 Stop flow of PRIST a moment before refueling stops.

CAUTION

ASSURE THAT THE ADDITIVE IS DIRECTED INTO AND BLENDS WITH FLOWING FUEL FROM FUELING NOZZLE. DO NOT ALLOW CONCENTRATED ADDITIVE TO CONTACT INTERIOR OF FUEL TANKS OR AIRCRAFT PAINTED SURFACES. USE NOT LESS THAN 20 FL. OZ. OF ADDITIVE PER 260 GALLONS OF FUEL OR MORE THAN 20 FL. OZ. OF ADDITIVE PER 104 GALLONS OF FUEL.

ALTERNATE BLENDERS:

If alternate blenders must be used such as PRIST proportioner Model PRB-101 or AP-2, use instructions furnished with blender.

5-37

5-37

	AFM page
LANDING GEAR AND FLAP SYSTEMS - EXTEND/RETRACT CYCLES	5-37
The following approximate extension and retraction cycle times should be taken into consideration when making configuration changes:	5-37
Landing Gear	5-37
Extension or Retraction17 SECONDS	5-37
Flap Extension	5-37
Up to 5°17 SECONDS	5-37
5 °to 20 °10 SECONDS	5-37
20 °to 40 °6 SECONDS	5-37
Flap Retraction	5-37
40 °to 20 °4 SECONDS	5-37
20 °to 5 °10 SECONDS	5-37
5° to Up21 SECONDS	5-37

Mitsubishi Pilot Checklist MU-2B-60 Marquise

Section 5 Normal Procedures

AFM page

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Mitsubishi Pilot Checklist **Normal Procedures** MU-2B-60 Marquise

NORMAL

Section 5

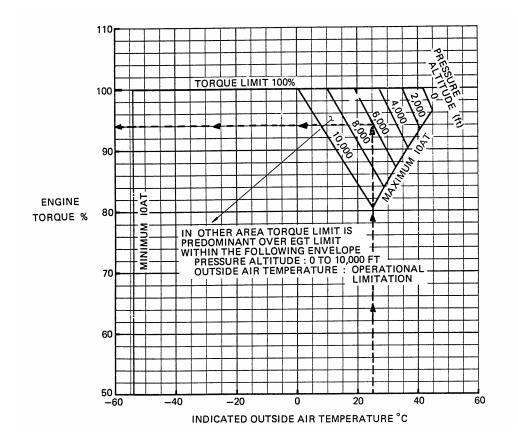
MU-2B-60 NORMAL PROCEDURES TABLE OF CONTENTS

PREFLIGHT CHECK (COCKPIT and CABIN)	N-1
PREFLIGHT CHECK (Exterior)	N-2
BEFORE STARTING ENGINES	N-7
STARTING ENGINES	N-7
AFTER STARTING ENGINES	N-8
TAXI	N-9
BEFORE TAKEOFF	N-9
AFTER TAKEOFF	N-10
VISIBLE MOISTURE ENCOUNTERS	N-10
FLIGHT IN ICING CONDITIONS	N-11
CLIMB (18000') / CRUISE	N-11
DESCENT	N-12
APPROACH	N-12
BEFORE LANDING	N-13
AFTER LANDING	N-13
STOPPING ENGINES	N-13
SECURING	N-14
TURNAROUND	N-14
CRANKING	N-14
INFLIGHT NTS CHECK (FEATHERING OPERATION)	N-15
SYSTEM OPERATION	N-15
SYNCHROPHASER	N-15
ENGINE CONTINUOUS IGNITION SYSTEM (If Auto Ignition System is not installed)	N-15
AUTO IGNITION SYSTEM (If Auto Ignition System is installed)	N-15
FUEL TRANSFER SYSTEM	N-16
AIR CONDITIONING AND PRESSURIZATION SYSTEM	N-16
OXYGEN SYSTEM	N-17
PITOT AND STATIC ANTI-ICE SYSTEM	N-18
STALL WARNING ANTI-ICE SYSTEM	N-18
PROPELLER ANTI-ICE SYSTEM	N-18

Mitsubishi	Pilot Checklist		Section 5
MU-2B-60	Marquise	Normal F	Procedures
ENGINE INTAKE	E AND OIL COOLE	R AIR	N-18
INTAKE ANTI-IC	E SYSTEMS		
***************************************	SHIELD ANTI-ICE S	SVSTEM	N-19
TILATED WINDS	DI IILLO AINTI-IOL C) I O I LIVI	IN-13
WING AND EMF	PENNAGE DEICE S	SYSTEM	N-19
DI ENDINO ANTI IO	YE ADDITIVE TO EI	IEI	NI OO
BLENDING ANTI -IC			N-20
LANDING GEAR AN	ID FLAP SYSTEMS	S -	N-20
EXTEND/RETRACT	CYCLES		
			-

Mitsubishi Pilot Checklist Section 5 MU-2B-60 Marquise Normal Procedures

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POWER ASSURANCE CHART-TAKEOFF

AIRSPEED: 0 KT

IOAT: INSTRUMENT ERROR ZERO

RECOVERY FACTOR 0.8

Mitsubishi MU-2B-60

Pilot Checklist

Performance

Marquise

EGT: 650°C RPM: 100% BLEED AIR: OFF

EXAMPLE:

OAT 25°C
Pressure Altitude 6,000 Ft
Engine Torque 94%

TAKEOFF SPEEDS - FLAPS 5° AND 20°

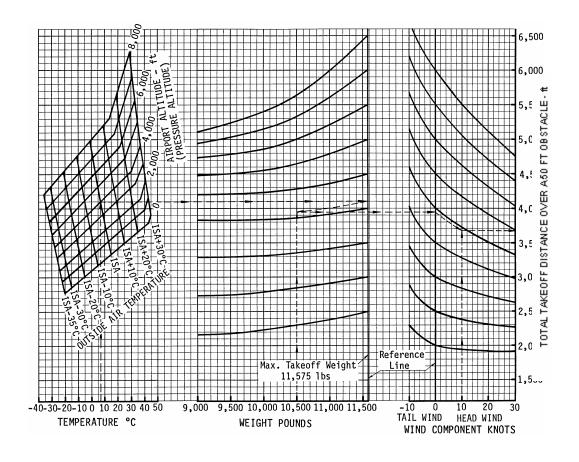
FLAPS 5°

TAKEOFF WEIGHT - POUNDS	TAKEOFF SPEED - KCAS	
- POUNDS		
	ROTATION	50 FT
11,575	109	120
11,000	106	120
10,000	101	120
9,000	100	120

Chart Source: MU-2B-60 AFM (MR-0273-1) Rev. 14, page 6-9

FLAPS 20°

TAKEOFF WEIGHT	TAKEOFF SPEED	
- POUNDS	- KCAS	
	ROTATION	50 FT
11,575	105	113
11,000	103	113
10,000	100	113
9,000	100	113



TAKEOFF DISTANCE - FLAPS 5°

ENGINES: TAKEOFF POWER

FLAPS:

PAVED, LEVEL & **RUNWAY CONDITIONS:** DRY SURFACE

BLEED AIR: OFF

EXAMPLE:

7° C OAT: 4,000 Ft Pressure Altitude: Airplane Weight: 10,500 Lbs.

Wind Condition: 10 Kts Head Wind Takeoff Speed: Rotation 104KCAS 120 KCAS

50 Ft

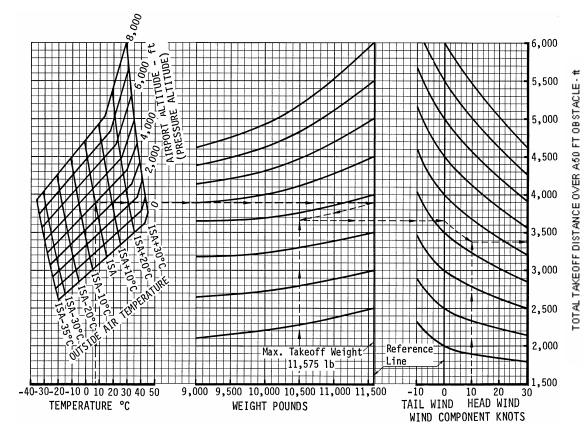
Takeoff Distance: 3,670 Ft

Chart Source: MU-2B-60 AFM (MR-0273-1) Rev. 14, page 6-9

Pilot Checklist Marquise

Performance

Mitsubishi MU-2B-60



TAKEOFF DISTANCE - FLAPS 20°

ENGINES: TAKEOFF POWER

FLAPS: 20°

RUNWAY CONDITIONS: PAVED, LEVEL &

DRY SURFACE

Mitsubishi MU-2B-60

Pilot Checklist Marquise

Performance

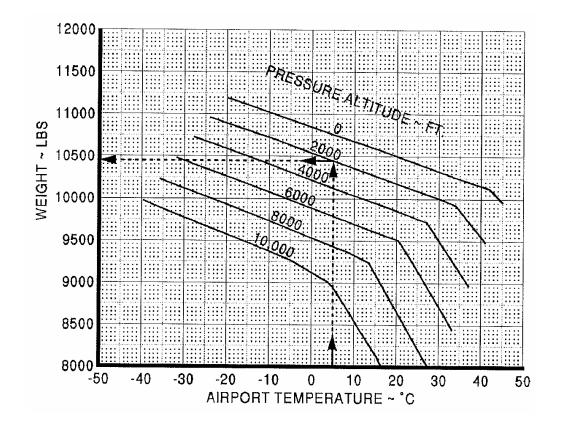
BLEED AIR: OFF

EXAMPLE:

OAT: 7°C
Pressure Altitude: 4,000 Ft
Airplane Weight: 10,500 Lbs

Wind Condition: 10 Kts Head Wind Takeoff Speed: Rotation 102KCAS 50 Ft 113 KCAS

Takeoff Distance: 3,380 Ft



WEIGHT FOR POSITIVE GRADIENT AFTER LIFTOFF – FLAPS 5°

Mitsubishi MU-2B-60

Pilot Checklist

Performance

Marquise

OPERATING ENGINE: TAKEOFF POWER

INOPERATIVE ENGINE: PROPELLER FEATHERED

CLIMB SPEED: 120 KCAS (V_{50FT})

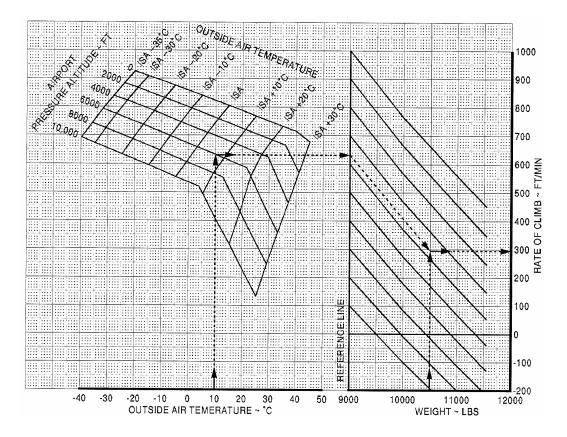
LANDING GEAR: EXTENDED

FLAPS: 5° BLEED AIR SELECTOR: OFF

EXAMPLE

OUTSIDE AIR TEMPERATURE......5°C
AIRPORT PRESSURE ALTITUDE. 2000 FT
WEIGHT......10,450 LB

Chart Source: MU-2B-60 POM (MR-0338-1) Temp. Rev.4-1 page 4/6



SINGLE ENGINE RATE OF CLIMB - FLAPS 5°

OPERATING ENGINE: TAKEOFF POWER INOPERATIVE ENGINE: PROPELLER

FEATHERED

Mitsubishi MU-2B-60

Pilot Checklist

Performance

Marquise

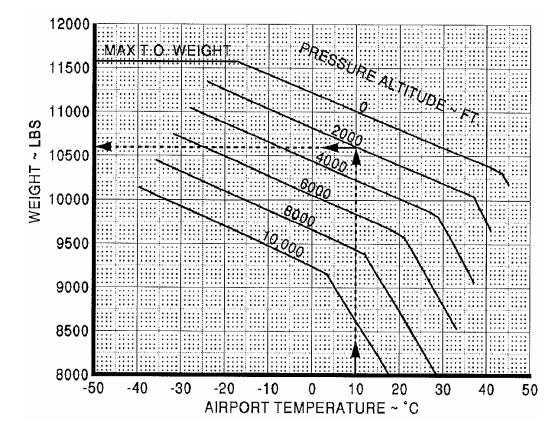
CLIMB SPEED: 140 KCAS (VYSE) LANDING GEAR: RETRACTED

FLAPS: 5° BLEED AIR SELECTOR: OFF

EXAMPLE

OUTSIDE AIR TEMPERATURE......10°C
AIRPORT PRESSURE ALTITUDE...6000 FT
WEIGHT......10,500 LB
SINGLE ENGINE RATE OF CLIMB...295 FT/MIN

Chart Source: MU-2B-60 POM (MR-0338-1) Temp. Rev.4-1 page 3/6



FAA Accepted Feb. 12, 2007 YET 06220C

Page P-7

WEIGHT FOR POSITIVE GRADIENT AFTER LIFTOFF – FLAPS 20°

OPERATING ENGINE: TAKEOFF POWER

INOPERATIVE ENGINE: PROPELLER

FEATHERED

CLIMB SPEED: 113 KCAS (V50FT)

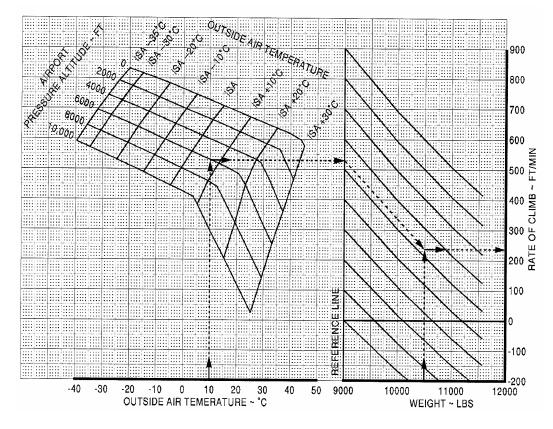
LANDING GEAR: EXTENDED

FLAPS: 20° BLEED AIR SELECTOR: OFF

EXAMPLE

OUTSIDE AIR TEMPERATURE.... 10°C AIRPORT PRESSURE ALTITUDE. 2000 FT WEIGHT...... 10,600 LB

Chart Source: MU-2B-60 POM (MR-0338-1) Temp. Rev.4-1 page 6/6



SINGLE ENGINE RATE OF CLIMB - FLAPS 20°

OPERATING ENGINE: TAKEOFF POWER

INOPERATIVE ENGINE: PROPELLER

FEATHERED

Mitsubishi MU-2B-60

Pilot Checklist

Performance

Marquise

CLIMB SPEED: 135 KCAS (VYSE) LANDING GEAR: RETRACTED

FLAPS: 20° BLEED AIR SELECTOR: OFF

EXAMPLE

OUTSIDE AIR TEMPERATURE.... 10°C AIRPORT PRESSURE ALTITUDE. 6000 FT WEIGHT...... 10,500 LB SINGLE ENGINE RATE OF CLIMB. 237 FT/MIN

Chart Source: MU-2B-60 POM (MR-0338-1) Temp. Rev.4-1 page 5/6

LANDING APPROACH SPEEDS - FLAPS 20° AND 40°

FLAPS 20°

Note: Minimum single engine approach speed is 110 KCAS.

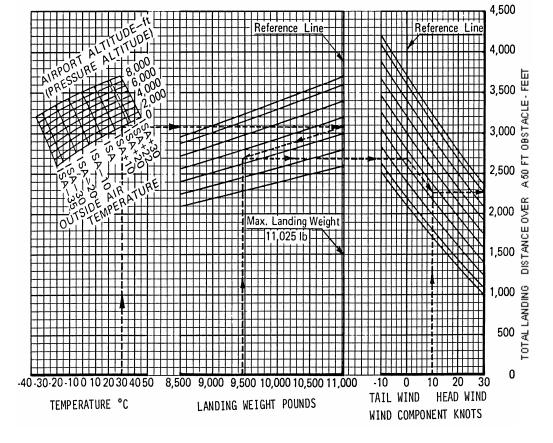
LANDING WEIGHT	LANDING APPROACH SPEED
Lbs	KCAS
11,025	110
10,500	108
10,000	105
9,500	102
9,000	100
8,500	99

Chart Source: MU-2B-60 AFM (MR-0273-1) Rev. 14, page 6-15

FLAPS 40°

Note: Minimum single engine approach speed is 115 KCAS.

LANDING WEIGHT Lbs	LANDING APPROACH SPEED KCAS
11,025	119
10,500	116
10,000	114
9,500	111
9,000	108
8,500	105



LANDING DISTANCE - FLAPS 20°

FLAPS: 20°

LANDING GEAR: DOWN APPROACH SPEED: SEE LANDING

APPROACH SPEED: SEE LANDING
APPROACH SPEED

CHART

Mitsubishi MU-2B-60

Pilot Checklist

Performance

Marquise

POWER LEVERS: GROUND IDLE ON

TOUCHDOWN

RUNWAY CONDITIONS: PAVED, LEVEL, DRY

SURFACE

BRAKING: HARD, NO REVERSE

PITCH

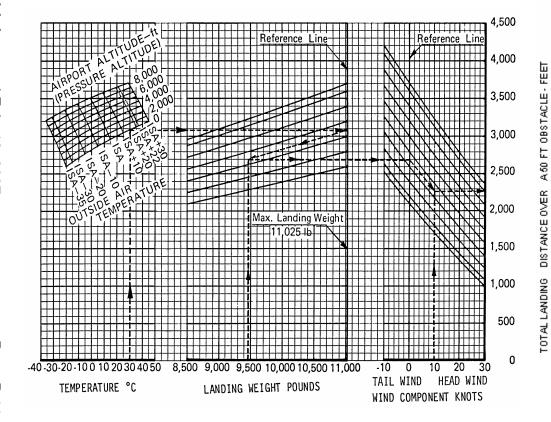
EXAMPLE:

OAT 30°C Pressure Altitude 0 Ft

Airplane Weight 9,470Lbs

Wind Condition 10 Kts Head Wind Landing Distance Approximately 2,270 Ft

Note: Landing distances are predicated on a VREF of 1.3Vs. CAUTION: VREF FOR SINGLE ENGINE LANDING IS 1.3Vs OR 110 KIAS WHICHEVER IS GREATER. ADD 10% TO LANDING DISTANCE FOR SINGLE ENGINE LANDINGS.



LANDING DISTANCE - FLAPS 40°

40° FLAPS: LANDING GEAR: **DOWN**

APPROACH SPEED: SEE LANDING

APPROACH SPEED

Mitsubishi MU-2B-60

Pilot Checklist

Performance

Marquise

CHART

POWER LEVERS: **GROUND IDLE ON**

TOUCHDOWN

RUNWAY CONDITIONS: PAVED, LEVEL, DRY

SURFACE

BRAKING: HARD, NO REVERSE

PITCH

EXAMPLE:

A 50 FT

30°C OAT Pressure Altitude 0 Ft

Airplane Weight 9,470 Lbs.

Wind Condition 10 Kts Head Wind Landing Distance Approximately 2,270 Ft

Note: Landing distances are predicated on a V_{REF} of 1.5V_S CAUTION: V_{REE} FOR SINGLE ENGINE LANDING IS 1.5V_S OR 115 KIAS WHICHEVER IS GREATER. ADD 20% TO LANDING DISTANCE FOR SINGLE ENGINE LANDINGS.

Pilot Checklist Marquise

Performance

Intentionally Left Blank

PERFORMANCE

MU-2B-60 PERFORMANCE

TABLE OF CONTENTS

POWER ASSURANCE CHART - TAKEOFF	P1
TAKEOFF SPEEDS - FLAPS 5° AND 20°	P2
TAKEOFF DISTANCE - FLAPS 5°	P3
TAKEOFF DISTANCE - FLAPS 20°	P4
WEIGHT FOR POSITIVE GRADIENT AFTER LIFTOFF - FLAPS 5°	P5
SINGLE ENGINE RATE OF CLIMB - FLAPS 5°	P6
WEIGHT FOR POSITIVE GRADIENT AFTER LIFTOFF - FLAPS 20°	P7
SINGLE ENGINE RATE OF CLIMB - FLAPS 20°	P8
LANDING APPROACH SPEEDS - FLAPS 20° AND 40°	P9
LANDING DISTANCE - FLAPS 20°	P10
LANDING DISTANCE - FLAPS 40°	P11
BLANK	P12