

TROTTER CONTROLS FORT WORTH, TEXAS	TEST SPECIFICATION		NUMBER	REVISION
	REPORT ORDER		TS-0004	
TITLE Test Procedure ~ FRDS GEN II factory Initial Setup and Calibration	BY	CHK'D	MODEL	
	J. Flores		FRDS GEN II	
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References

Item	Document	Comments
1.	Leakage Table Calibration - PS-0029	
2.	Pressure Relief Valve Calibration - PS-0030	
3.	Gate Box and Hopper Sensor Calibration - PS-0031	
4.	Maintenance System Test - TS-0005	

Summary

This procedure outlines the methods used to test FRDS Gen II and all of its components. This procedure must be followed to insure that the unit will work properly when installed.

Basic System Specifications

The unit could be installed in any fire bomber aircraft equipped with the corresponding hydraulic system.

Power Requirements

Input Voltage: +22.0Vdc ~ 36.0 Vdc @ 7.75A max

Characteristics

The system operates hydraulic vales along with a hydraulic pump and other components which assist in the delivery of fire retardant within a ±50 gal accuracy.

- Refer to datasheet for installation and specific characteristics for each individual component.

Connections

Power and Component Connections

- Refer to drawing 60441 to aid in the electrical component connections for aircraft installation.
- For initial manufacturing testing connections refer to 60441 for component interconnect connections and refer to 5450-0007 GEN II test fixture connections for power and switch control connections.

Relay Box Jumpers: Verify that the following jumpers are installed with respect to Pin # 2.

J9-3	J11-1	J12-1	J15-1	J16-1	J17-1	J18-1	J23-1

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Programming Instructions.

1. The system requires two types of programming:
 - Core Programming - See Doc PS-0034 for programming instructions
 - Supervisor Programming - See doc # for programming instructions
2. There are also instances in which the software needs updating:
 - Updating software to a PI - See PS-0034
 - Replacing Defective PI - See PS-0034

System Calibrations

Make sure the unit is connected as described on drawing 60441 for aircraft installation and 5450-0007 for manufacturing initial setup and calibration.

Turn system ON and verify the voltage is adjusted to +24Vdc ~ +32Vdc

The system was calibrated at the factory; however field adjustments must be performed for the system to operate as required.

1. Adjust gate angle sensor with the doors in the close position, voltage should read 4.0 Vdc ±.05 (Aprox 0°)
2. Open the doors, the voltage should read .92 Vdc ±.05 (Aprox 274°)
3. Adjust hopper level sensor with an empty hopper, voltage should read 4.0 Vdc ±.05
4. Simulate a full hopper (800 gal for the 802F and 1000 gal for the 1002F) voltage should read 2.71 Vdc ±.05 (± 5 gal)
4. Adjust the home sensors flag - the actuator rotates CCW to open the doors, rotate the flag CCW past the home sensors then slowly rotate the flag CW towards the sensors until both sensors are just made (light-up).

Be sure the Pilot interface is not indicating any errors at the bottom of the screen.

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SysTest:

The system is now ready to perform any of the desired SysTest functions which should indicate most errors if any are present.

- For detailed information on how to perform SysTest and error codes regarding the SysTest refer to TS-0005.

The SysTest submenu contains the following five menu items:

- Pilot (no doors)
 - Switch Test (optional).....PASS_____
 - Valve Mon1 Mon2 Test.....PASS_____
 - Hyd Pump pressure limit test.....PASS_____
 - Bleed / Edump Pass Fail test.....PASS_____

- Pilot (ALL)
 - Switch Test (optional).....PASS_____
 - Valve Mon1 Mon2 Test.....PASS_____
 - Valve Wiring Test.....PASS_____
 - Gate prox sensor test.....PASS_____
 - Hyd Pump pressure limit test.....PASS_____
 - Bleed / Edump Pass Fail test.....PASS_____
 - Gate Angle voltage Test.....PASS_____

- Auto Salvo.....PASS_____

Press and release dump sw when asked.

- Man Salvo.....PASS_____

Press dump switch for aprox 1.5 sec when asked.

- Maint SysTest.....PASS_____

All test must be performed to indicate a PASS condition.

Analog Inputs Test

To Start the Analog inputs test:

- Set the HYD POWER to OFF, the MODE switch to AUTO and the ARMED sw to OFF(unless otherwise instructed).
- Press down the MENU switch.
- Turn the data wheel to highlight Maint then press the data wheel to select.
- In the Maintenance screen, turn the data wheel to highlight Analog Inputs then press the data wheel to select.
- Turn the data wheel until the desired Analog input to test is highlighted.

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- Performed the appropriate action to activate the desired input to be tested, verify the displayed value with the EXP value, an equal value indicates a TEST OK result.
- For every action performed always return to the original state.

NOTES: ♦Press RUN PUMP to clear any errors while running the test. It is suggested to perform a RUN PUMP when the desired results are not accomplished. ♦In most cases OFF = switch in the down position. ♦EXP VALUE is the expected value to be display when the corresponding action is performed as long as no errors have occurred. ♦If any of these tests are performed on an aircraft, use caution since the gate may operate inadvertently.

The system must be set to ARMED - AUTO - HYD POWER ON for all tests in this section unless otherwise specified. Press RUN PUMP to clear any errors while running the test. MFR VALUE is the state in which the item is as long as the settings are as mention above and no errors have occurred. It is advised to check the INITIAL VALUE in the table against the display to verify that the system is working properly for the most part. Verify hardware operation and make adjustments as needed.

Table 1 ~ Analog Inputs

		Action	EXP VALUE	TEST OK	Notes
1	RB6-AccelOne	PI in normal pos	+1G		
		PI on its side	0G		
		PI on its top	-1G		
2	RB7-AccelTwo	Accelerometer 2	+1 G		
		PI on its side	0 G		
		PI on its top	-1 G		
3	RB8-GateAngle	Gate angle			Gate closed = 4.0V
4	RB9-HopperGal	Hopper gallons			Empty hopper = 4.0V, 45 gal
5	RB10-HydPres	Hydraulic press			3K PSI = 4.0v, 0 PSI = 1.0V
6	RB11-FoamGal	Foam gallons			3 gal = 2.85V, 18 gal = .42V
7	RB12-Batt +24v	Battery power in			
8	Derived G			--	
9	Panel Temp	PI operational temp			
10	RB3-Photo	Cover or apply light to sensor			

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Auto Mode Tests

The mode switch must be set to AUTO for all tests in this section.

Table 2 ~ Auto Mode - General functionality tests.

ID	Pass Fail	Description	Hyd Power Switch	Arm Switch	Dump Switch	Expected Action
1		All switches off	OFF	OFF	OFF	No pressure in system. Pump does not run. PUMP ON LED = OFF
2		Hyd Power On Only	ON	OFF	OFF	Pump pressurizes hydraulic accumulator to 3000 PSI, Power LED ON
3		Hyd Power On, ARM Switch Disabled	ON	OFF	ON↑	Doors do not open, Arm switch is disabled
4		Hyd Power On, ARM Switch Enabled	ON	ON	ON↑	Doors open per pilot interface settings
5		Door closed indicators - doors closed	ANY	ANY	ANY	Green GATE CLOSED LEDES on pilot interface illuminate when doors are closed.
6		Door closed indicators - doors open	ANY	ANY	ANY	Green GATE CLOSED LEDES on pilot interface are not illuminated when doors are open.
7		Hyd Power On, ARM Switch Enabled, OPEN GATE PI Switch Depressed	ON	ON	OFF	Doors open, GATE CLOSED LEDES = OFF
8		Hyd Power On, ARM Switch Enabled, CLOSE GATE PI Switch Depressed	ON	ON	OFF	Doors close, GATE CLOSED LEDES = ON
9		Hyd Power On, ARM Switch Enabled, RUN PUMP PI Switch Depressed	ON	ON	OFF	Pump Runs, PUMP ON LED = ON

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Salvo System Test - AUTO MODE

The AUTO system will be disabled. This is accomplished by putting the AUTO system in a disabled state so that it will not respond to the DUMP trigger input.

Follow the steps below:

- 1) Set MODE Switch to the AUTO position.
- 2) Set Hydraulic Power Switch to ON.
- 3) Set the ARMED Switch to ON.
- 4) Use the menu to put the system in Maintenance Mode.
- 5) Use the Maintenance menu to select, Digital Inputs in order to disable the auto dump mode.
- 6) Press the DUMP Trigger.
- 7) The Auto Salvo system should do the following:
 - Run the pump.....PASS_____
 - Open the Gatebox doors.....PASS_____
 - The Auto Salvo LED should be illuminated.....PASS_____

NOTES: To reset the AUTO SALVO condition, set the ARMED switch down (off).

SALVO SYSTEM

PASS		FAIL	
------	--	------	--

Timer Mode Tests

The mode switch must be set to TIMER for all tests in this section.

Table 3 ~ Timer Mode - General Functionality

ID	PASS FAIL	Description	Hyd Power Sw.	Arm Sw.	Dump Sw.	Expected Action
1		All switches off	OFF	OFF	OFF	No pressure in system. Pump does not run.
2		Hyd Power On Only	ON	OFF	OFF	Pump pressurizes hydraulic accumulator to 3000 PSI, Power LED ON
3		Hyd Power On, ARM Switch Disabled	ON	OFF	ON↑	Doors do not open, Arm switch is disabled
4		Hyd Power On, ARM Switch Enabled	ON	ON	ON↑	Doors open per pilot interface settings

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ID	PASS FAIL	Description	Hyd Power Sw.	Arm Sw.	Dump Sw.	Expected Action
5		Door closed indicators - doors closed	ANY	ANY	ANY	Green GATE CLOSED LEDS on pilot interface illuminate when doors are closed.
6		Door closed indicators - doors open	ANY	ANY	ANY	Green GATE CLOSED LEDS on pilot interface are not illuminated when doors are open.
7		Hyd Power On, ARM Switch Enabled, OPEN GATE PI Switch Depressed	ON	ON	OFF	Doors open, GATE CLOSED LEDS = OFF
8		Hyd Power On, ARM Switch Enabled, CLOSE GATE PI Switch Depressed	ON	ON	OFF	Doors close, GATE CLOSED LEDS = ON
9		Hyd Power On, ARM Switch Enabled, RUN PUMP PI Switch Depressed	ON	ON	OFF	Pump Runs, PUMP RUN LED = ON

Salvo System Test - TIMER MODE

The AUTO system will be disabled. This is accomplished by putting the AUTO system in maintenance mode so that it will not respond to the DUMP trigger input.

Follow the steps below:

- 1) Set MODE Switch to the TIMER position.
- 2) Set Hydraulic Power Switch to ON.
- 3) Set the ARMED Switch to ON.
- 4) Use the menu to put the system in Maintenance Mode.
- 5) Use the Maintenance menu to select, Digital Inputs in order to disable the timer dump mode.
- 6) Press the DUMP Trigger.
- 7) The Auto Salvo system should do the following:
 - Run the pump.....PASS_____
 - Open the gatebox doors.....PASS_____
 - The Auto Salvo LED should be illuminated.....PASS_____

SALVO SYSTEM

PASS		FAIL	
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NOTES: To reset the AUTO SALVO condition, set the ARMED switch down (off).

Manual Mode Tests - Electro-Mechanical System

The mode switch must be set to MAN for all tests in this section.

Table 4 ~ Man Mode - General Functionality

ID	PASS FAIL	Description	Hyd Power Sw.	Arm Sw.	Dump Sw.	Expected Action
1		All switches off	OFF	OFF	OFF	No pressure in system. Pump does not run.
2		Hyd Power On Only	ON	OFF	OFF	Pump pressurizes hydraulic accumulator to 3000 PSI, Power LED ON
3		Hyd Power On, ARM Switch Disabled	ON	OFF	ON↑	Doors do not open, Arm switch is disabled
4		Hyd Power On, ARM Switch Enabled	ON	ON	ON↑	Doors open, Doors close when button released
5		Door closed indicators - doors closed	ANY	ANY	ANY	Green GATE CLOSED LEDS on pilot interface illuminate when doors are closed.
6		Door closed indicators - doors open	ANY	ANY	ANY	Green GATE CLOSED LEDS on pilot interface are not illuminated when doors are open.
7		Hyd Power On, ARM Switch Enabled, OPEN GATE PI Switch Depressed	ON	ON	OFF	Doors open, GATE CLOSED LED = OFF
8		Hyd Power On, ARM Switch Enabled, CLOSE GATE PI Switch Depressed	ON	ON	OFF	Doors close, GATE CLOSED LED = ON
9		Hyd Power On, ARM Switch Enabled, RUN PUMP PI Switch Depressed	ON	ON	OFF	Pump Runs PUMP RUN LED = ON

Notes: {X}

- 1) The hydraulic pressure is controlled to a maximum of 3000 PSI +150 PSI by the system during the tests shown above.

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Salvo Button Test

This switch acts independently from all switches on the pilot interface.

Depressing the Salvo Button results in the following action regardless of the pilot interface switch settings:

- The hydraulic pump runs until 3000 PSI is reached.....PASS_____
- The doors are opened.....PASS_____

The Salvo Button should be tested for all possible combinations of the ARM switch, Mode Switch, and Hydraulic Power switch.

SALVO SYSTEM

PASS		FAIL	
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NOTES: To reset MAN salvo condition, depress the SALVO switch, set the mode switch to AUTO or TIMER, then set the ARMED switch down (off). If the system is already in AUTO or TIMER mode and not ARMED, depressing the SALVO SWITCH will reset the MAN salvo condition.

Pneumatic EDUMP Test

This system acts independently from all switches on the pilot interface and the Salvo Button.

- Pre-conditions
 - The Pneumatic EDUMP system must be charged with the minimum pressure dictated by the AT802F flight manual. The accumulator should be charged using turbine bleed air to simulate flight conditions.
 - Set the power switch on the pilot interface to "ON".
 - Set the ARM switch on the pilot interface to "ARMED".
 - Set the MODE switch to "AUTO".
 - Verify that hydraulic pressure indicated by the pilot interface is 2800 PSI or more.

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- Test Procedure
 - Activate the EDUMP system by pushing the lever forward.
 - All power should be removed from the FRDS relay enclosures valve outputs
 - Hydraulic pressure is bled off, and the gatebox doors are opened so that the mechanical latches inside the gatebox are over-center toward the un-latched, open position.
 - The system indicates a MAN SALVO condition and the SALVO switch will be lighted.
 - Resetting the lever back to normal position will indicate an AUTO SALVO condition, set ARMED switch down (off) to reset the AUTO SALVO condition.

Indicate if the system passed or failed.

PNEUMATIC EMERGENCY DUMP

PASS		FAIL	
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► **The following test may aide troubleshooting the system in case any errors are encounter (if marked with a hyphen " - " no need to test, for these test are performed in the SysTest process, unless needed for troubleshooting purposes).**

Digital Inputs Test

To Start the Digital inputs test:

- Set the HYD POWER to OFF, the MODE switch to AUTO and the ARMED sw to OFF(unless otherwise instructed).
- Press down the MENU switch.
- Turn the data wheel to highlight Maint then press the data wheel to select.
- In the Maintenance screen, turn the data wheel to highlight Digital Inputs then press the data wheel to select.
- Turn the data wheel until the desired input to test is highlighted.
- Performed the appropriate action to activate the desired input to be tested, a change of state (ON/OFF) indicates a TEST OK result.
- For every action performed always return to the original state.

NOTES: ♦Press RUN PUMP to clear any errors while running the test. It is suggested to perform a RUN PUMP when the desired results are not accomplished. ♦In most cases OFF = switch in the down position. ♦INI VALUE is the state in which the item is as long as the settings are as mention above and no errors have occurred. It is advised to check the INITIAL VALUE in the table against the display to verify that the system

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is working properly for the most part. ♦If any of these tests are performed on an aircraft, use caution since the gate may operate inadvertently.

Table 5 ~ Digital Inputs

	BIT NUMBER/NAME	ACTION	INI. VALUE	TEST OK	notes
0	G9-AmedSW	Move ARMED switch up	OFF	--	
1	C3-ModeAuto	Select AUTO mode	ON	--	Move switch up & down
2	**-ModeTimer	Select TIMER mode	OFF	--	
3	C13-ModeEM	Select Man mode	OFF	--	
4	C14-YesSw	Press up on YES switch	OFF	--	
5	G15-NoSw	Press down on NO switch	OFF	--	
6	D1.3-LmpTstSw	Press up on LAMP TEST SW	OFF	--	Auto, pump on, low press, pump fail & auto salvo should turn ON
7	G14-RunPumpSw	Press down RUN PUMP sw	OFF	--	
8	G13-CloseSw	Press up CLOSE GATE sw	OFF	--	
9	G12-OpenSw	Press down OPEN GATE sw	OFF	--	
10	F7-HydPowerSw	Move HYD POWER sw up	ON	--	Hyd Pump will run
11	**-DumpSw	Press DUMP sw	OFF	--	
12	B5-DumpN.O.	Press DUMP sw	OFF	--	
13	A7-DumpN.O.Coil	Press dump sw	ON	--	
14	B4-DumpN.C.	Press dump sw	ON	--	
15	A6-DumpN.C.Coil	Press dump sw	OFF	--	
16	A14-WheelA	Turn DATA WHEEL	VAR IES		Should turn states as the data wheel is turned
17	A15-WheelB	Turn DATA WHEEL	VAR IES		Should turn states as the data wheel is turned
18	C2-WheelPush	Press the data wheel	OFF		Exiting the current display indicates a good operation
19	A10_AclStat1	Press up and hold LAMP TEST sw	OFF		
20	B2-AcelStat2	Press up and hold LAMP TEST sw	OFF	--	
21	C1.2-BleedM1	BleedMon1	On	--	With hyd power ON = OFF
22	F1.6-BleedM2	Remove Bleed sol valve from Multi Box (J10)	On	--	With hyd power ON = OFF. With hyd PWR off, remove bleed sol valve = OFF
23	E0.2-BldVRg2	BleedRegOkVreg2	OFF	--	
24	F1.2-DmpArmL	Turn ARMED sw OFF	On	--	Set HYD POWER ON & MAN
25	C1.1-EDmp1M1	Turn HYD POWER ON	On	--	Hyd POWER ON = OFF
26	F1.5-EDmp1M2	Remove EDUMP sol valve from MB (J14)	On	--	Removed MB J14 = OFF (Hyd POWER ON = OFF)
27	E0.1-ED1VRg3	EDump1RegOkVreg3	OFF	--	

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28	C1.0-EDmp2M1	Turn HYD POWER ON	ON	--	Hyd POWER ON = OFF
29	F1.4-EDmp2M2	Remove EDUMP sol valve from MB (J13)	ON	--	Removed MB J13 = OFF (Hyd POWER ON = OFF)
30	E0.0-ED2VRg4	EDump2RegOkVreg4	OFF	--	
31	D15-EmSalvo	EmAutoSalvo	OFF	--	
32	E1.0-EmSalvB	Remove F24 from RB	ON	--	EM Auto Salvo Good Fuse
33	A13-EmSalvM1	EmAutoSalvoMon1	ON	--	
34	E1.4-EmSalv8	EmAutoSalvoRegOkVreg8	ON	--	
35	E1.3-EmSalv9	EmAutoSalvoRegOkVreg9	ON	--	
36	E1.7-BldVRg5	EmBleedRegOkVreg5	ON	--	
37	C1.6-EmClsV3	Press CLOSE GATE sw	ON	--	Set Hyd POWER ON, ARMED & MAN.
38	E1.6-ED1VRg6	EmDump1RegOkVreg6	ON	--	
39	E1.5-ED2VRg7	EmDump2RegOkVreg7	ON	--	
40	C1.7-EmPmpSw	Press RUN PUMP sw	ON		Set Hyd POWER ON & MAN.
41	C1.5-EmOpnV3	Press OPEN GATE sw	ON	--	Set Hyd POWER ON, ARMED & MAN.
42	C1.4-EmPwr1	EmPwr1Bad	ON	--	
43	E1.1-EmVLPwr	EmValvePwrOk	ON	--	
44	E1.2-EmVPlus	EmVPlusSwOk	ON	--	
45	E0.7-VbFuse1	Fuse1_Ok	ON	--	
46	E0.6-VbFuse2	Fuse2_Ok	ON	--	
47	E0.5-VbFuse3	Fuse3_Ok	ON	--	
48	E0.4-VbFuse4	Fuse4_Ok	ON	--	
49	C4-HomePrx1-p12	Move doors to the open position	ON	--	HYD POWER ON & ARMED press GATE OPEN SW
50	B13-HomePrx2-p8	Move doors to the open position	ON	--	HYD POWER ON & ARMED press GATE OPEN SW
51	C0.1-ClsV1M1		ON	--	GateCloseV1Mon1
52	F0.1-ClsV1M2	Remove V1 CLOSE from manifold	ON	--	GateCloseV1Mon2
53	C0.3-ClsV2M1		ON	--	GateCloseV2Mon1
54	F0.3-ClsV2M2	Remove V1 CLOSE from manifold	ON	--	GateCloseV2Mon2
55	C0.5-ClsV3M1		ON	--	GateCloseV3Mon1
56	F0.5-ClsV3M2	Remove V1 CLOSE from manifold	ON	--	GateCloseV3Mon2
57	C0.0-OpnV1M1		ON	--	GateOpenV1Mon1
58	F0.0-OpnV1M2	Remove V1 CLOSE from manifold	ON	--	GateOpenV1Mon2
59	C0.2-OpnV2M1		ON	--	GateOpenV2Mon1
60	F0.2-OpnV2M2	Remove V1 CLOSE from manifold	ON	--	GateOpenV2Mon2
61	C0.4-OpnV3M1		ON	--	GateOpenV3Mon1

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62	F0.4-OpnV3M2	Remove V1 CLOSE from manifold	ON	--	GateOpenV3Mon2
63	B14-PresLoSw	Increase pressure to >2500 PSI	ON	--	HYD POWER ON
64	C0.6-PumpM1	Remove RUN PUMP from MB (J6)	ON	--	HydPumpMon1
65	F0.6-PumpM2	Remove RUN PUMP from MB (J6)	ON	--	HydPumpMon2
66	D1.2PwrArmM1	HydPowerArmedSwMon1	ON	--	
67	D2-MonSalvo	MonitorAutoSalvo	OFF	--	
68	A12-MonSlvoB	MonitorAutoSalvoBadCoil	ON	--	
69	C1-BusyHG	NoritakeBusyHg	OFF	--	
70	B15-BusyPI	NoritakeBusyPanel	OFF	--	
71	E0.3-Sp2VRg1	Spare2RegOkVreg1	OFF	--	
72	C0.7-Spr1M1	SpareCoil_1_Mon1	ON	--	
73	F0.7-Spr1M2	SpareCoil_1_Mon2	OFF	--	
74	C1.3-Spr2M1	SpareCoil_2_Mon1	ON	--	
75	F1.7-Spr2M2	SpareCoil_2_Mon2	OFF	--	
76	F1.3-SpIn1M2	SpareInput1Mon2	OFF	--	
77	D1.1-+5vMon	Plus5vMonitorOk	ON	--	
78	D1.4-+24vEm	Plus24vViaEm	ON	--	
79	D1.5-+24vReg	Plus24vReg	ON	--	
80	** -MonHeart	MonitorHeart	ON	--	
81	G7-MonHeart	Ok if heart bit present	*	--	*heart beat

RB = Multi Box

RB = Relay BOX

PI = Pilot Interface

Digital Outputs Test

To Start the Digital inputs test:

- Set the HYD POWER to ON, the MODE switch to AUTO and the ARMED sw to ON(unless otherwise instructed).
- Press down the MENU switch.
- Turn the data wheel to highlight Maint then press the data wheel to select.
- In the Maintenance screen, turn the data wheel to highlight Digital Outputs then press the data wheel to select.
- Turn the data wheel until the desired Output to test is highlighted.
- Press the YES switch to activate the desired output to be tested, a change of state (ON/OFF) on the selected output should be verified with the corresponding hardware being tested.
- For every action performed always return to the original state.

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NOTES: ♦Press RUN PUMP to clear any errors while running the test. It is suggested to perform a RUN PUMP when the desired results are not accomplished. ♦In most cases OFF = switch in the down position. ♦INI VALUE is the state in which the item is as long as the settings are as mention above and no errors have occurred. It is advised to check the INITIAL VALUE in the table against the display to verify that the system is working properly for the most part. ♦If any of these tests are performed on an aircraft, use caution since the gate may operate inadvertently.

Table 6 ~ Digital Outputs

	BIT NUMBER/NAME	Expected Action (PRESS YES SW)	INI. VALUE	TEST OK	NOTES
0	F5-ArmedLt	ARMED light turn ON			
1	F2-PumpOnLt	PUMP ON light turn ON			
2	F3-LowPresLt	LOW PRES light turn ON			
3	F4-PumpFailLt	PUMP FAIL light turn ON			
4	D1-ArmedRmtLt	Remote Armed light turn ON			This is an ext light connected to PI CN4
5	A9-Acel_test	AccelOneTwoTest		--	
6	D12-BleedCls	BLEED valve turn ON		--	
7	D13-EDump1Cls	EDUMP valve turn ON (MB J13)		--	
8	D14-EDump2Cls	EDUMP valve turn ON (MB J14)		--	
9	D9-Pump	HYD PUMP should run		--	
10	D4-GateClsV1fas	V1 CLOSE valve turn ON		--	
11	D3-GateOpnV1fas	V1 OPEN valve turn ON		--	
12	D6-GateClsV2med	V2 CLOSE valve turn ON		--	
13	D5-GateOpnV2med	V2 OPEN valve turn ON		--	
14	D8-GateClsV3slo	V3 CLOSE valve turn ON		--	
15	D7-GateOpnV3slo	V3 OPEN valve turn ON		--	
16	D0.0-HopFull	Do not test n/a		--	
17	B13-Kill_I2C	KillPowerI2C		--	
18	G0-MonInhibit	MonitorReset		--	
19	G1-VfdResetHG	Resets the display on the hopper display		--	{1}
20	F0-VfdResetPI	Resets the display on the PI		--	Press NO sw to return the display{1}
21	D0.1-Buzzer	Do not test n/a		--	
22	D0.2-SpareLt	Do not test n/a		--	
23	D10-FoamInject	Do not test n/a		--	
24	D11-ValveSp2	Do not test n/a		--	

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RB = Multi Box RB = Relay BOX PI = Pilot Interface

Notes:

{1} turn the data wheel 20 times to reset any garbage on the display, right turn will display PI contents, left turn will display Hopper contents (hopper display only)

Supplemental Information

Error Codes:

Error Recovery:

Pass/Fail Criteria

The system should operate as intended.

Failure of the system to operate as expected as detailed in previous sections is a failure.

Visual LED check status - Set the system to the following settings:
ARMED - AUTO - HYD POWER "ON"

If the system is operating properly, most LED's on relay PCB are ON with the exception of: LED's 26, 27, 29, 33, 47.

Driver LED's ON - 7A, 7B, 8D, 9B, 9C, 9D. LED 6B "ON" when pump is running.