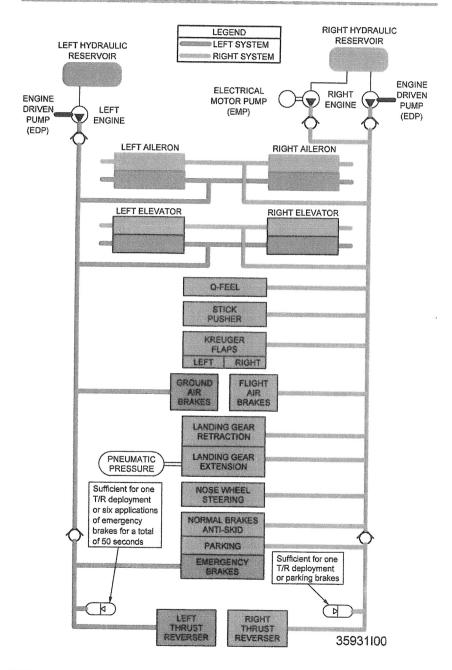
Hydraulic System Diagram



Left Main Hydraulic System Failure

GAC

If L HYD PUMP PRESS LOW message is illuminated and pressure is below 1200 psi, the left hydraulic system has failed. Inoperative systems are as follows:

- Left Thrust Reverser
- Emergency Brakes
- · Ground (Outboard) Airbrakes

NOTE: If both left and right main hydraulic systems fail, see Both Left and Right Main Hydraulic System Failures, page EF-13.

NOTE: At touchdown, only **FLIGHT AIRBRAKES** (inboard) message illuminates.

NOTE: Do not use emergency brakes.

NOTE: The left thrust reverser is available for deployment by accumulator pressure only if desired, however, it may not fully stow if deployed.

NOTE: Use right thrust reverser as necessary; correct asymmetry using ground steering and reverse thrust setting.

END

Right Main Hydraulic System Failure

GAC

If R HYD PUMP PRESS LOW and AUX HYD PRESS LOW messages are illuminated and pressure is below 1200 psi, the right hydraulic system has failed. Inoperative systems are as follows:

- · Right Thrust Reverser
- · Normal Brakes / Anti-Skid
- · Parking Brakes
- · Normal Landing Gear Extension
- Flight (Inboard) Airbrakes
- · Nosewheel Steering
- Krueger Flaps
- Stick Pusher
- · Elevator Feel

NOTE: Maintain below 250 / 0.75 KIAS / Mi for the loss of elevator feel.

NOTE: If both left and right main hydraulic systems fail, see Both Left and Right Main Hydraulic System Failures, page EF-13.

If R HYD LEVEL LOW message is illuminated perform step 1 and proceed to step 10:

Continued on next page →

Right Main Hydraulic System Failure, ctd GAC
If R HYD LEVEL LOW message is not illuminated continue as follows:
1. AUX HYD PUMPOFF
2. AUX PUMP CBCHECK IN
3. AUX HYD PUMP SwitchOVRRD
NOTE: If pressure stays below 1200 psi turn the AUX HYD PUMP OFF and proceed to Step 10.
If pressure rises to normal, aux pump motor thermal protection may have been previously activated:
4. AUX HYD PUMP SwitchAUTO
Before extension of Krueger flaps and Landing Gear:
5. AUX HYD PUMP SwitchOVRRD
After Extension of Krueger Flaps and Landing Gear:
6. AUX HYD PUMP SwitchAUTO
Final Approach:
7. AUX HYD PUMP SwitchOVRRD
After Aircraft Has Stopped (Clear of runway):
8. AUX HYD PUMP SwitchAUTO
9. EMERG BRAKE LeverEMERG
If pressure stays below 1200 psi:
10. Emergency Landing Gear Extension PERFORM AS REQUIRED
A. SLATS / KRUGR / FLAPS Lever20°
B. Airspeed
C. Landing Gear LeverDOWN
D. EMERGENCY GEAR DOWN HandleRELEASE, TURN AND LIFT
E. Landing GearDOWN AND LOCKED (3 DN INDICATION)
CAUTION: LANDING GEAR LEVER MUST STAY IN DOWN POSITION.
Continued on next page →

			The second secon	The second second second second	and the same of th		WAS DESCRIBED TO THE OWNER.		A Annihilation of the Control of the	1000
Right Ma	ain Hyd	draulic	Syste	m Fail	ure, ct	d		and the state of the	G/	٩C
CAUTION: ONCE EXTENDED, LANDING GEAR CANNOT BE RETRACTED AGAIN.							E			
11. PAR	K/EM	ERG B	RAKE	Lever	(On Fir	nal)	••••••		EMER	G
Failu emer	rgency re of rigency in EMI	ght hyd brake	draulic operat	system ion by	or no	rmal b	K/EN	ystem i /IERG	require BRAK	s
Emer	rgency achieve	brakin s at lea	g is pe ast half	rforme the no	d with ormal b	half of raking	norma perfori	al brake mance.	e powe	A fr
A. PA	ARK / E	MERC	BRA	KE Lev	er	•••••			EMER	3
	heel B							CAUTI	OUSL	Y
CAUTION: ANTI-SKID SYSTEM IS INOPERATIVE WHEN RIGHT HYDRAULIC SYSTEM FAILS. IN THIS CONDITION, ANTI-SKID OFF LIGHT WILL NOT ILLUMINATE.										
inc	OTE: 1 crease of Feet ta	listance	shown	in the	Unfacto	e usin ored La	g eme	rgency Distan	system ce Fron	ì,
12. No Kı	ueger	Flaps I	_andin	j	PL/	AN AS	REQU	IRED E	BELOV	V
NOTE: At touchdown, only GROUND AIRBRAKES (outboard) message illuminates.										
NOTE: Use caution when applying brakes. Anti-skid is not available with emergency brakes.										
	: Avoid									
NOTE: Anticipate approximately 115% increase in normal landing distance due to use of emergency brakes, loss of anti-skid and loss of Krueger flaps.										
No Kru	eger L	anding	(25°/	0°/40) .					
A. SL	ATS/	KRUGI	R/FLA	NPS Le	ver				40	0
B. Landing DistanceINCREASE BY 15%										
C. Ap	proach	Speed	b				MA	AINTAI	N VRE	=
Landing Weight (1000 lb)	30	29	28	27	26	25	24	23	22	Transmission of the least of th
	1	1	-		-		-	-	-	ē

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Rig	ht Main Hydraulic System Failure, ctd GAC
Be	fore Landing With Right Hydraulic System Failure:
1.	SLATS / KRUGR / FLAPS LeverSET
2.	T / R ARM Pushbuttons DO NOT ARM
3.	ENGINE SYNC SwitchOFF
4.	Flight A / B SwitchRETRACT
5.	Ground A / B SwitchON
6.	Landing GearDOWN AND LOCKED (3 DN INDICATIONS)
7.	Hydraulic Pressure CHECK
8.	PARK / EMERG BRAKE LeverEMERG (ON FINAL)
9.	Landing FlapsSET
10.	Autopilot / Yaw DamperDISENGAGE / OFF (YD LIGHT- ON)

Hydraulic System Overheat

AFM Section III

HYD OVERHEAT (L/R) message indicates that hydraulic fluid temperature, respectively, is above limits.

NOTE: If excessive temperature is caused by a malfunction of an engine driven pump, reduction in the thrust lever on the affected side, descent to a lower altitude, or engine shut-down may bring temperature within limits. Since cooling of the fluid is partially dependent on heat exchange between the service area mounted system components and ambient air, the denser air at lower altitudes may assist in lowering fluid temperature. Power reductions, altitude changes and engine shutdown must be performed as limited by in-flight conditions.

- 2. Hydraulic Fluid Temperature......MONITOR

If temperature is rising:

3. Descend to 10,000 feet or below.

If descent is impracticable:

- Shut down engine.
- 5. Restart engine after descent to 10,000 feet.

Emergency Landing Gear Extension	AFM Section III				
1. SLATS / KRUGR / FLAPS Lever	20°				
2. Airspeed	NFIGURATION				
3. Landing Gear Lever	DOWN				
4. EMERGENCY GEAR DOWN HandleRELEASE, T					
5. Landing Gear	TAY IN DOWN				
END					
Landing Gear Does Not Lock Up	AFM Section III				
1. R MAIN HYD PRESS					
If pressure is low and HYD PUMP PRESS LOW n see the Right Main Hydraulic System Failure, page					
If pressure is normal and any one of the three DN ir on:	ndicators stays				
Landing Gear LeverCYCLE I (Wait for all 3 DN indicators before recycling to UP.					
If any one of the three transit symbols stays on:					
3. Landing Gear Lever	DOWN				
After all landing gear indicate DN:					
4. SPEED	S, BUT NOT				
5. Landing Gear Lever	UP				
Continued on next page →					

Landing Gear Does Not Lock Up, ctd...

If one of the three in transit indications stays on:

- 7. LAND AS SOON AS PRACTICABLE

END

Landing Gear Lock Down Indication Failure AFM Section III

NOTE: Extension times vary with temperature. Expect longer extension times after flying in cold soaking conditions.

If during landing gear extension, normal IN TRANSIT symbol or DN indication does not appear:

- 1. SLATS / KRUGR / FLAPS Lever20°
- 2. Airspeed REDUCE TO MINIMUM FOR AIRCRAFT CONFIGURATION (VREF +5)
- 3. Right Hydraulic Pressure CHECK

If pressure indication is normal:

4. Landing Gear Lever UP; MONITOR INDICATION CHANGES

After 30 seconds minimum:

5. Landing Gear Lever.... DOWN; MONITOR INDICATION CHANGES **NOTE:** It may take up to 22 seconds for green **DN** indication to appear.

NOTE: If one or more **DN** indications are still off (in transit or red indication), it may indicate landing gear failure to lock down.

NOTE: After flying in cold soaking conditions, wait at least 30 seconds after illumination of red LANDING GEAR annunciator. Then, if hydraulic pressure is normal, cycle landing gear UP and DOWN several times as required.

Continued on next page →

AFM Section III

Landing Gear Lock Down Indication Failure, ctd...

AFM Section III

If R HYD pressure is normal:

6. REPEAT STEPS 4 AND 5 AS NECESSARY. **NOTE:** If Step 6 is required, maintenance action is recommended.

If R HYD and AUX HYD pressures are low:

7. Emergency Landing Gear ExtensionPERFORM (See Emergency Landing Gear Extension, page EG-3.)

La	nding With Gear Up	AFM Section III
1.	Passengers	BRIEFED AND PREPARED
2.	Cabin Baggage	SECURED
3.	CABIN LIGHTS Switch	BELTS / NO SMOKE
4.	FUEL JETTISON PushbuttonsREDUCE WEIGHT	
5.	A and B Aural Warning Press IND TEST (A then B) switch messages on).	
6.	Pressurization FIELD ELEV Knob SET 2000 FEET	
7.	Approach at 3000 feet AGL or below.	
8.	ECS Selector	RAM
9.	Airspeed Bug	SET FOR VREF
10.	SLATS / KRUGR / FLAPS Lever	40°
11.	Plan for zero crosswind correction, wir	ngs level at touchdown.
12.	GROUND A / B Switch	OFF
13.	FUEL CUT OFF Pushbuttons (On Tou	ıchdown) PRESS (LIGHTS – ON)
14.	FIRE / OVERHT Pushbuttons	PRESS
\FT	ER complete stop:	
15.	BATT MASTER & EMERGENCY BAT	T SwitchesOFF
16.	Passenger EvacuationIN	IITIATE AFTER FULL STOP