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710D Backhoe Loader Dimensions

		Extendible Dipperstick	
Backhoe	**Standard**	**Retracted**	**Extended**
A—Loading height, truck loading position	4.03 m (13 ft 3 in.)	3.98 m (13 ft 1 in.)	4.65 m (15 ft 3 in.)
B—Reach from center of swing mast	6.90 m (22 ft 8 in.)	6.90 m (22 ft 8 in.)	8.31 m (27 ft 3 in.)
C—Reach from center of rear axle	8.15 m (26 ft 9 in.)	8.15 m (26 ft 9 in.)	9.56 m (31 ft 4 in.)
D—Digging depth (SAE):			
(1) 610 mm (2 ft) flat bottom	5.53 m (18 ft 2 in.)	5.51 m (18 ft 1 in.)	7.03 m (23 ft 1 in.)
(2) 2440 mm (8 ft) flat bottom	5.26 m (17 ft 3 in.)	5.24 m (17 ft 2 in.)	6.82 m (22 ft 4 in.)
E—Maximum digging depth	5.55 m (18 ft 2 in.)	5.52 m (18 ft 1 in.)	7.04 m (23 ft 1 in.)
F—Ground clearance, minimum	356 mm (14 in.)	356 mm (14 in.)	356 mm (14 in.)
G—Bucket rotation	152°/162°	152°/162°	152°/162°
H—Transport height	4.21 m (13 ft 10 in.)	4.31 m (13 ft 11 in.)	4.31 m (13 ft 11 in.)
J—Overall length, transport	8.13 m (26 ft 8 in.)	8.13 m (26 ft 8 in.)	8.13 m (26 ft 8 in.)
K—Stabilizer width—transport	2.44 m (8 ft 0 in.)	2.44 m (8 ft 0 in.)	2.44 m (8 ft 0 in.)
L—Stabilizer spread—operating	3.48 m (11 ft 5 in.)	3.48 m (11 ft 5 in.)	3.48 m (11 ft 5 in.)
M—Overall width (less loader bucket)	2235 mm (88 in.)	2235 mm (88 in.)	2235 mm (88 in.)
Digging force, bucket cylinder (power dig position)	57.5 kN (12,940 lb force)	57.5 kN (12,940 lb force)	57.5 kN (12,940 lb force)
Digging force, crowd cylinder	42.7 kN (9600 lb force)	42.7 kN (9600 lb force)	29.8 kN (6700 lb force)

	Loader with 1.24 m^3 (1.62 yd^3) Bucket	**Loader with 1.0 m^3 (1.375 yd^3) Bucket and MFWD**
N—Wheelbase	2.29 m (90.5 in.)	2.29 m (90.5 in.)
O—Dig below ground—bucket level	147 mm (5.8 in.)	152 mm (6.0 in.)
P—Rollback at ground level	40°	40°
Q—Dump clearance, bucket at 40°	2.80 m (9 ft 6 in.)	2.80 m (9 ft 6 in.)
R—Maximum height to bucket hinge pin	3.57 m (11 ft 8 in.)	3.61 m (11 ft 10 in.)
S—Maximum bucket dump angle	40°	40°
T—Reach at full height, bucket at 40°	851 mm (33.5 in.)	836 mm (32.9 in.)

TX,115,RR2626 –19–19AUG99–1/1

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710D Backhoe Loader Engine Specifications (S.N. —830204)

Item	Measurement	Specification
Engine: John Deere 6059T turbocharged diesel, 4-stroke cycle		
Net Power @ 2200	Power	SAE 86 kW (115 hp)
Gross Power @ 2200	Power	SAE 90 kW (120 hp)
Cylinders	Quantity	6
Bore and Stroke	Distance	106.5 x 110 mm (4.19 x 4.33 in.)
Displacement	Volume	5.884 L (359 cu in.)
Fuel Consumption, Typical	Consumption	7.6 to 12.5 L/h (2.0—3.3 gal/hr)
Compression Ratio	Compression	17.8 to 1
Maximum Torque @ 25% at 1400 rpm	Torque Rise	465 N•m (343 lb-ft)
Main Bearings	Quantity	7
Electrical System	Voltage	12 volts
Alternator	Amperage	65 amps
Lubrication		Pressure system w/full-flow filter and cooler
Fan		Suction
Air Cleaner		Dry

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710D Backhoe Loader Engine Specifications (S.N. 830205—)

Item	Measurement	Specification
Engine: John Deere 6068T and PowerTech® 6068T turbocharged diesel, 4-stroke cycle, Model # 6068TT050		
Net Power @ 2200	Power	SAE 87 kW (116 hp)
Gross Power @ 2200	Power	SAE 93 kW (125 hp)
Cylinders	Quantity	6
Bore and Stroke	Distance	106.5 x 127 mm (4.19 x 5.00 in.)
Displacement	Volume	6.8 L (414 cu in.)
Fuel Consumption, Typical	Consumption	9.5 to 14.3 L/h (2.5—3.8 gal/hr)
Compression Ratio	Compression	17.0 to 1
Maximum Torque @ 27% at 1400 rpm	Torque Rise	515.5 N•m (380 lb-ft)
Main Bearings	Quantity	7
Electrical System	Voltage	12 volts
Alternator	Amperage	95 amps w/AC 65 amps w/o AC

PowerTech is a registered trademark of Deere & Company

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Operational Checkout Procedure

Use this procedure to check all systems and functions on the machine.

This checkout procedure is designed so technician can make a quick check of the operation of machine while sitting in operator's seat.

A location will be required which is level, has adequate space to complete the driving checks and to work machine. The engine, power train and hydraulic oil must be at operating temperature.

Complete the necessary visual checks (oil levels, oil condition, external leaks, loose hardware, loose linkage) prior to doing the checkout procedure.

No special tools or gauges are needed. Always start in the left column and read completely; follow this sequence from left to right. Read each check completely before performing. Make a copy of the Operational Checkout Record Sheet and record the results of each check on this sheet.

At the end of each check, if no problem is found (OK:), you will instructed to GO TO NEXT CHECK. If problem (NOT OK:) is indicated, you will be given repair required or CTM number. If verification is needed, you will be given next best source of information after GO TO:

Group 10 (System Operational Checks)

Group 15 (System Diagnostic Information)

Group 20 (Adjustments)

Group 25 (Tests)

CTM (Component Technical Manual)

TX,D300,DS1984 –19–06APR95–1/1

John Deere Radial Piston Pump—Use CTM7

For additional information, the component CTM is also required.

Use the CTM in conjunction with this machine manual.



M44215 –UN–07SEP88

CED,TX03679,5015 –19–05FEB99–1/1

John Deere 6059 Engine (S.N. —830204)—Use CTM8

For additional information, the component CTM is also required.

Use the CTM in conjunction with this machine manual.



M44215 –UN–07SEP88

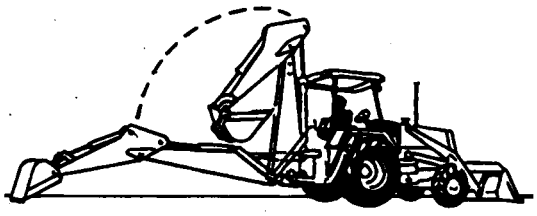
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Hydraulic System Check

– – –1/1

Hydraulic Pump Performance Check



T6295AH –UN–19OCT88

NOTE: If hydraulic oil is not at operating temperature, heat hydraulic oil until loader and backhoe cylinders feel warm to touch using following procedure:

Cover front of radiator to stop air flow.

Activate backhoe boom down function and run engine at 2000 rpm.

NOTE: Activating boom down may load engine, boom down relief valve is set too high or hydraulic pump stand-by pressure too low.

Operate all functions periodically to distribute heated oil to all cylinders.

Lower stabilizers.

Put backhoe at maximum reach with bucket fully dumped at ground level.

Run engine at 2000 rpm.

Measure cycle time by simulating loading the bucket, retracting the dipperstick and raising the boom to the boom cylinder cushion. Do not time boom cylinder through cushion.

LOOK/LISTEN: Boom down must reduce engine rpm.

NOTE: Take the average cycle time for at least three complete cycles. This average cycle time will give a general indication of hydraulic pump performance.

LOOK: The maximum cycle time is 11.5 seconds.

OK: Go to next check.

NOT OK: If boom down relief does not load engine, check main pump stand-by pressure. Go to Group 9025-25.

NOT OK: Go to Group 9025-25, Backhoe Relief Valve Test.

NOT OK: If cycle times are slow, check hydraulic charge system. Go to Group 9025-25 Surge Relief Pressure Test and Charge Pressure Test.

NOT OK: Go to Group 9025-25 Hydraulic Pump Flow Test.

– – –1/1

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Diagnose Engine Malfunction

NOTE: Diagnostic charts are arranged from most probable and simplest to verify, to least likely and more difficult to verify. Remember the following steps when troubleshooting a problem:

- *Step 1. Operational Checkout Procedure*
- *Step 2. Diagnostic Charts*
- *Step 3. Adjustments and/or Tests*

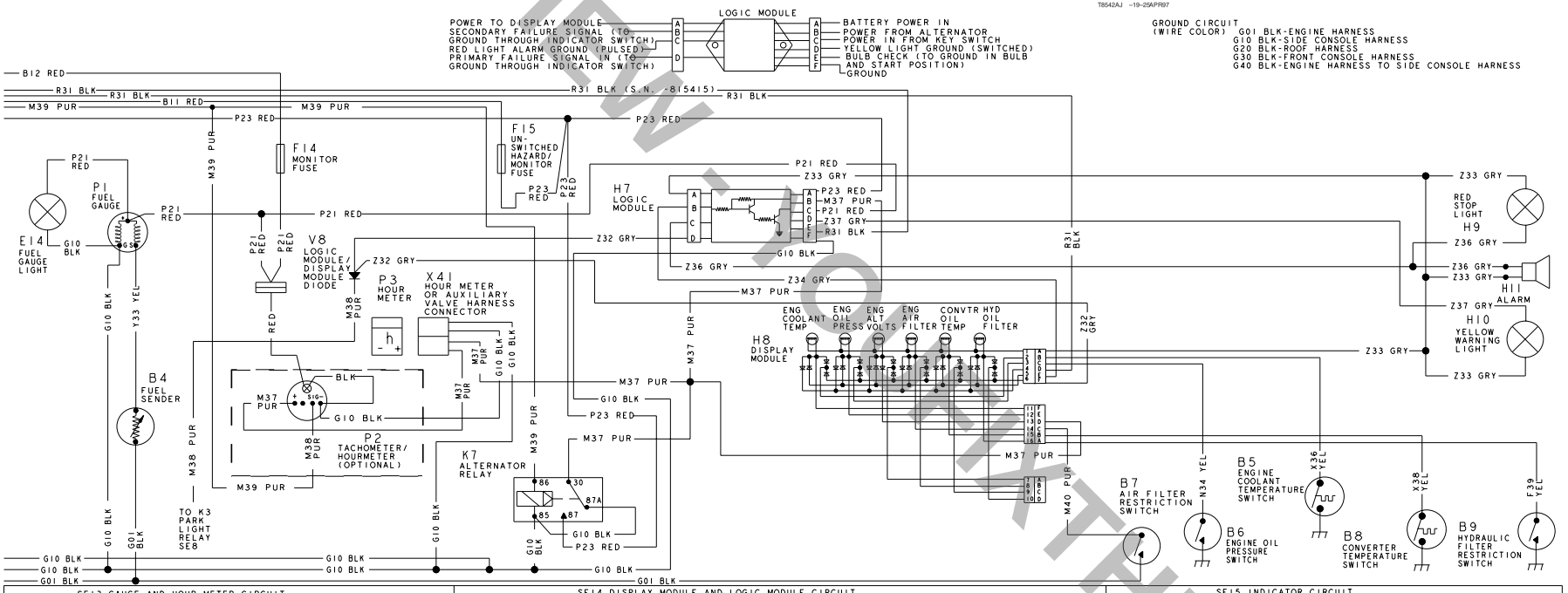
Symptom	Problem	Solution
Engine Cranks but Will Not Start or Starts Hard	Fuel tank empty.	Check fuel level.
	Water in fuel or water frozen in fuel lines. Water frozen in fuel filter.	Thaw and drain water from fuel tank. Thaw ice in fuel lines and drain. Install new fuel filter.
	Fuel shut-off solenoid not opening shut-off valve.	Turn key switch on. Solenoid "clicks". Check voltage at solenoid if voltage is present. Check fuse and wiring if voltage is not present.
	Fuel tank cap vent plugged.	Loosen cap, listen for air entering tank suddenly. Replace cap.
	Debris or dirt in fuel.	Drain small amount of fuel from tank into clean container. Inspect for debris. Drain and flush fuel system. Change fuel filter.
	Wrong grade fuel for low ambient temperature.	Fuel "jelled" in tank or lines. Warm machine. Drain fuel system. Change fuel filter. Refill with proper fuel.
	Air entering suction side of fuel system.	Check for bubbles in fuel filter. Tighten connections. Inspect lines for damage.
	Stuck injection pump metering valve.	Lightly tap injection pump housing. If engine now starts, repair. (See Engine CTM.)
	Fuel supply pump.	Check fuel supply pump pressure. (See Engine CTM.)

Continued on next page

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T8542AJ –19–25APR97



SYSTEM FUNCTIONAL SCHEMATIC (S.N. -815415) WITH LOGIC MODULE (5 OF 6)

T8542AJ

TX,9015,QQ3257 –19–10MAR97–5/6

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Fuel Gauge and Hour Meter Circuit Theory of Operation (S.N. —872256)

Fuel Gauge:

The circuit consists of monitor fuse, fuel gauge/light and fuel sender. Power flows from monitor fuse to (+) terminal of fuel gauge, out S terminal of fuel gauge to fuel sender. Fuel sender is grounded through G10 black wire. Power also flows from (+) terminal of fuel gauge to fuel gauge light. Fuel gauge light is grounded through G10 black wire.

Tachometer/Hour Meter:

9015 15A ,114

Power flows from W terminal of alternator through M39 purple wire to S terminal on tachometer/hour meter.

Tachometer light gets power from P21 red wire and is grounded through G10 black wire.

With key switch ON and engine running, hour meter gets power from W terminal of alternator through M39 purple wires to alternator relay, energizing the relay and connecting terminals 30 and 87 suppling power for hour meter, causing the hour meter to run. With engine OFF, key switch ON alternator relay is de-energized connecting terminals 30 and 87A removing power for hour meter and suppling ground for alternator indicator light in display module, causing the alternator indicator light to come on.

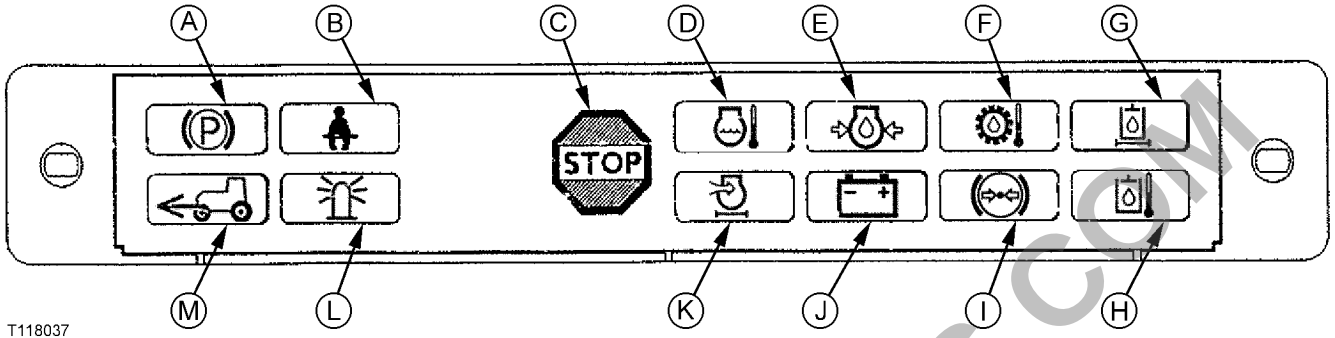
NOTE: For component identification code description, see Wiring and Schematic Diagrams Legend, Group 9015-10.

TX,9015,DY668 –19–16AUG96–1/1

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Display Monitor Circuit Theory Of Operation (S.N. 872257—)



T118037 –UN–22OCT98

A—Park Brake Indicator
B—Seat Belt Indicator
C—STOP-Engine Indicator
D—Engine Coolant Temperature Indicator
E—Engine Oil Pressure Indicator
F—Transmission Oil Temperature Indicator
G—Hydraulic Oil Filter Restriction Indicator
H—Not Used
I—Brake Pressure Indicator
J—Alternator Voltage Indicator
K—Air Filter Restriction Indicator
L—Beacon Indicator (If Equipped)
M—Mechanical Front Wheel Drive Indicator (If Equipped)

9015 15B ,101

Power is supplied to the display monitor through the 10 AMP Monitor/Gauge fuse.

Each display indicator will be colored either (RED) or (YELLOW) to indicate the severity of the situation. Red is a high level warning and the yellow is a low level warning. When the “RED” high level warning is indicated, the operator will see a (RED COLORED INDICATOR), (RED STOP INDICATOR) and (AUDIBLE ALARM). When the “YELLOW” low level warning is indicated, the operator will see only the (YELLOW COLORED INDICATOR). On “Low Level” warnings the operation of the machine can continue but the problem should be investigated and solved. On “High Level” warnings except “Engine Coolant Temperature Indicator” the operation of the machine should be stopped immediately and problem corrected,

CONDITION: High Level Warning Indicators (RED) “STOP”

- Red Stop Indicator:
- Park Brake Indicator:
- Engine Oil Pressure Indicator:
- Engine Coolant Temperature Indicator: DO NOT stop engine when engine coolant temperature indicator comes on, or temperature will rise further. Reduce load and run engine at slow idle for several minutes, stop engine and service machine.
- Brake Pressure Indicator

CONDITION: Low Level Warning Indicators (YELLOW) “SERVICE”

- Air Filter Restriction Indicator:
- Charging System Indicator:
- Converter Oil Temperature Indicator:
- Hydraulic Oil Filter Indicator:
- Hydraulic Oil Temperature Indicator:

CONDITION: Seat Belt Indicator (WHITE)

- The seat belt indicator will be back-lighted “White” when ever the key switch is on and park brake is applied.

CONDITION: MFWD Indicator (GREEN)

- MFWD indicator will be back-lighted “Green” when switch is on.

CONDITION: Beacon Indicator (GREEN)

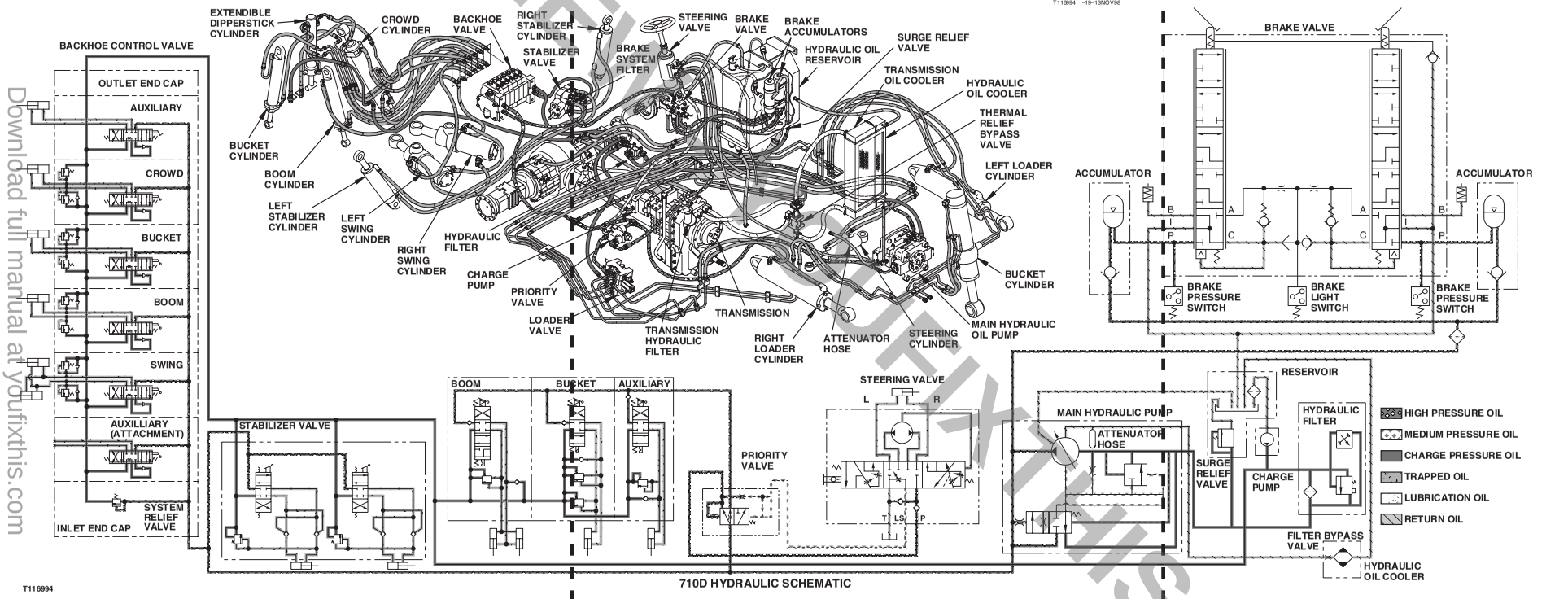
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Hydraulic Schematic (S.N. 872329—)

T116994 –19–13NOV98



T116994

710D HYDRAULIC SCHEMATIC

Hydraulic Schematic

CED,TX04577,769 –19–28SEP98–1/1

See Page 9025-05-8 A

See Page 9025-05-8 B

See Page 9025-05-8 C

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Cycle Time Test

SPECIFICATIONS	
Engine Speed	Fast idle
Oil Temperature	65 ± 5°C (150 ± 10°F)

SERVICE EQUIPMENT AND TOOLS
Digital Thermometer

1. Install digital thermometer. (See procedure in this group.)
2. Start engine and heat oil to specifications. (See procedure in this group.)

Specification

Engine—Speed ..... Fast Idle
Oil—Temperature ..... 65 ± 5°C (150 ± 10°F)

3. Check cycle times. The individual cycle times give an indication of any restriction in a circuit.

   The overall hydraulic system performance cycle time gives an indication of low pump flow or low charge pressure. If cycle time is slow, change hydraulic filter and check cycle time again.

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Heating and Air Conditioning

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