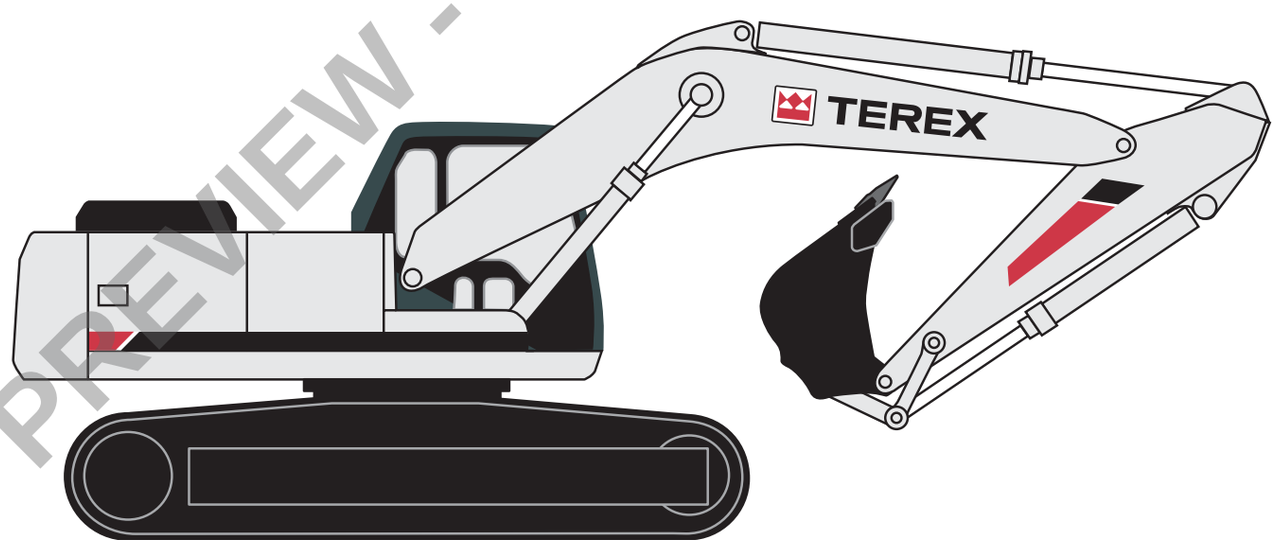
HYDRAULIC **EXCAVATOR**

TEREX

TXC
175
LC-1

SHOP MANUAL



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⚠ SAFETY ALERT SYMBOL ⚠

Be Prepared - Get To Know All Operating and Safety Instructions.

This is the Safety Alert Symbol. Wherever it appears in this manual or on safety signs on the machine you should be alert to the potential for personal injury or accidents. Always observe safety precautions and follow recommended procedures.

LEARN THE SIGNAL WORDS USED WITH THE SAFETY ALERT SYMBOL

The words **"CAUTION," "WARNING,"** and **"DANGER"** used throughout this manual and on decals on the machine indicate degree of risk of hazards or unsafe practices. All three degrees of risk indicate that safety is involved. Observe precautions indicated whenever you see the Safety Alert "Triangle," no matter which signal word appears next to the "Exclamation Point" symbol.

⚠ CAUTION!

This word is used on safety messages and safety labels and indicates potential of a hazardous situation that, if not avoided, could result in minor or moderate injury. It may also be used to alert against a generally unsafe practice.

⚠ WARNING!

This word is used on safety messages and safety labels and indicates potential of a hazardous situation that, if not avoided, could result in serious injury or death. It may also be used to alert against a highly unsafe practice.

⚠ DANGER!

This word is used on safety messages and safety labels and indicates an imminent hazard of a situation that, if not avoided, is very likely to cause death or extremely serious injury. It may also be used to alert against equipment that may explode or detonate if handled or treated carelessly.

Safety precautions are described in SAFETY from page -6 on.

TEREX cannot predict every circumstance that might involve a potential hazard in operation and maintenance. Therefore the safety messages in this manual and on the machine may not include all possible safety precautions. If any procedures or actions not specifically recommended or allowed in this manual are used, you must be sure that you and others can do such procedures and actions safely and without damaging the machine. If you are unsure about the safety of some procedures, contact a TEREX distributor.

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TRACK EXCAVATOR SAFETY

⚠ CAUTION!

Follow all safety recommendations and safe shop practices outlined in the front of this manual or those contained within this section.

Always use tools and equipment that is in good working order.

Use lifting and hoisting equipment capable of safely handling load.

Remember, that ultimately safety is your own personal responsibility.

MODEL	SERIAL NUMBER RANGE
TXC 225LC-1	30001 and Up
TXC 255LC-1	30001 and Up
TXC 300LC-1	30001 and Up
TXC 340LC-1	30001 and Up
TXC 420LC-1	30001 and Up
TXC 470LC-1	30001 and Up

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GENERAL SPECIFICATIONS

Shipping Weight	17.2 metric tons (37,920 lb), includes 10% fuel, boom, 2,600 mm (8’ 6") arm, standard bucket and standard shoes
Operating Weight	Add weight of full fuel tank and operator.
Shipping Weights With Optional Track Shoes	Add 225 kg (496 lb) for 700 mm (28") shoes
	Add 675 kg (1,488 lb) for 900 mm (35") shoes
Major Component Weights	Standard Boom 1,082 kg (2,385 lb)
	2,200 mm (7’ 3") Arm 540 kg (1,190 lb)
	2,600 mm (8’ 6") Arm 585 kg (1,290 lb)
	3,100 mm (10’ 2") Arm 640 kg (1,410 lb)
	Boom Cylinders 152 kg (335 lb) each
	Arm Cylinder 217 kg (478 lb)
	Bucket Cylinder 144 kg (317 lb)
	Counterweight 2,900 kg (6,390 lb)
	Upper Turntable 7,660 kg (16,890 lb)
	Lower - below Swing Bearing 6,190 kg (13,650 lb)
Digging Forces:	
Bucket Cylinder	11,300 kg (24,900 lb) with 2,200 mm (7’ 3") standard arm
	11,300 kg (24,900 lb) with 2,600 mm (8’ 6") standard arm
	11,300 kg (24,900 lb) with 3,100 mm (10’ 2") standard arm
Arm Cylinder	10,700 kg (23,600 lb) with 2,200 mm (7’ 3") standard arm
	9,200 kg (20,300 lb) with 2,600 mm (8’ 6") standard arm
	8,200 kg (18,100 lb) with 3,100 mm (10’ 2") standard arm
Fuel Tank Capacity	280 liters (74 U.S. gal)
Hydraulic System Capacity	220 liters (58 U.S. gal)
Hydraulic Reservoir Capacity	150 liters (40 U.S. gal)
Bucket Heaped Capacity Range	PCSA 0.34 - 0.93 m^3 (0.44 - 1.22 yd^3)
	IMPORTANT: Refer to the Load Weight, Bucket and Arm Length Compatibility Table for information on which bucket sizes may be used safely with which arm length, for load material weights.
Shoe Type	Triple Grouser
Shoe Width and Optional Sizes	500 mm (20") - standard
	600 mm (24") - optional
	700 mm (28") - optional
	900 mm (35") - optional
Ground Pressure Ratings:	
Standard 500 mm (20") shoe -	0.49 kg/cm^2 (7.0 psi)
Optional 600 mm (24") shoe -	0.41 kg/cm^2 (5.8 psi)
Optional 700 mm (28") shoe -	0.36 kg/cm^2 (5.1 psi)
Optional 900 mm (35") shoe -	0.28 kg/cm^2 (4.1 psi)

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TORQUE VALUES FOR STANDARD METRIC FASTENERS

NOTE: *The units for the torque values are kg•m (ft lb).*

Dia. x Pitch (mm)	Grade										
	3.6 (4A)	4.6 (4D)	4.8 (4S)	5.6 (5D)	5.8 (5S)	6.6 (6D)	6.8 (6S)	6.9 (6G)	8.8 (8G)	10.9 (10K)	12.9 (12K)
M5 x Std.	0.15 (1.08)	0.16 (1.15)	0.25 (1.80)	0.22 (1.59)	0.31 (2.24)	0.28 (2.02)	0.43 (3.11)	0.48 (3.47)	0.50 (3.61)	0.75 (5.42)	0.90 (6.50)
M6 x Std.	0.28 (2.02)	0.30 (2.16)	0.45 (3.25)	0.40 (2.89)	0.55 (3.97)	0.47 (3.39)	0.77 (5.56)	0.85 (6.14)	0.90 (6.50)	1.25 (9.04)	1.50 (10.84)
M7 x Std.	0.43 (3.11)	0.46 (3.32)	0.70 (5.06)	0.63 (4.55)	0.83 (6.00)	0.78 (5.64)	1.20 (8.67)	1.30 (9.40)	1.40 (10.12)	1.95 (14.10)	2.35 (16.99)
M8 x Std.	0.70 (5.06)	0.75 (5.42)	1.10 (7.95)	1.00 (7.23)	1.40 (10.12)	1.25 (9.04)	1.90 (13.74)	2.10 (15.18)	2.20 (15.91)	3.10 (22.42)	3.80 (27.48)
M8 x 1	0.73 (5.28)	0.80 (5.78)	1.20 (8.67)	1.00 (7.23)	1.50 (10.84)	1.35 (9.76)	2.10 (15.18)	2.30 (16.63)	2.40 (17.35)	3.35 (24.23)	4.10 (29.65)
M10 x Std.	1.35 (9.76)	1.40 (10.12)	2.20 (15.91)	1.90 (13.74)	2.70 (19.52)	2.35 (19.99)	3.70 (26.76)	4.20 (30.37)	4.40 (31.18)	6.20 (44.84)	7.20 (52.07)
M10 x 1	1.50 (10.84)	1.60 (11.57)	2.50 (18.08)	2.10 (15.18)	3.10 (22.42)	2.80 (20.25)	4.30 (31.10)	4.90 (35.44)	5.00 (36.16)	7.00 (50.63)	8.40 (60.75)
M12 x Std.	2.40 (17.35)	2.50 (18.08)	3.70 (26.76)	3.30 (23.86)	4.70 (33.99)	4.20 (30.37)	6.30 (45.56)	7.20 (52.07)	7.50 (54.24)	10.50 (75.94)	12.50 (90.41)
M12 x 1.5	2.55 (18.44)	2.70 (19.52)	4.00 (28.93)	3.50 (25.31)	5.00 (36.16)	4.50 (32.54)	6.80 (49.18)	7.70 (55.69)	8.00 (57.86)	11.20 (81.00)	13.40 (96.92)
M14 x Std.	3.70 (26.76)	3.90 (28.20)	6.00 (13.23)	5.20 (37.61)	7.50 (54.24)	7.00 (50.63)	10.00 (72.33)	11.50 (83.17)	12.00 (86.79)	17.00 (122.96)	20.00 (144.66)
M14 x 1.5	4.10 (29.65)	4.30 (31.10)	6.60 (47.73)	5.70 (41.22)	8.30 (60.03)	7.50 (54.24)	11.10 (80.28)	12.50 (90.41)	13.00 (94.02)	18.50 (11.26)	22.00 (158.12)
M16 x Std.	5.60 (40.50)	6.00 (43.39)	9.00 (65.09)	8.00 (57.86)	11.50 (83.17)	10.50 (75.94)	15.50 (112.11)	17.90 (129.47)	18.50 (133.81)	26.00 (188.05)	31.00 (224.22)
M16 x 1.5	6.20 (44.84)	6.50 (47.01)	9.70 (70.16)	8.60 (62.20)	12.50 (90.41)	11.30 (81.73)	17.00 (122.96)	19.50 (141.04)	20.00 (144.66)	28.00 (202.52)	35.50 (256.77)
M18 x Std.	7.80 (56.41)	8.30 (60.03)	12.50 (90.41)	11.00 (79.56)	16.00 (115.72)	14.50 (104.87)	21.00 (151.89)	27.50 (198.90)	28.50 (206.14)	41.00 (296.55)	43.00 (311.01)
M18 x 1.5	9.10 (65.82)	9.50 (68.71)	14.40 (104.15)	12.50 (90.41)	18.50 (133.81)	16.70 (120.79)	24.50 (177.20)	27.50 (198.90)	28.50 (206.14)	41.00 (296.55)	49.00 (354.41)
M20 x Std.	11.50 (83.17)	12.00 (86.79)	18.00 (130.19)	16.00 (115.72)	22.00 (159.12)	19.00 (137.42)	31.50 (227.83)	35.00 (253.15)	36.00 (260.38)	51.00 (368.88)	60.00 (433.98)
M20 x 1.5	12.80 (92.58)	13.50 (97.64)	20.50 (148.27)	18.00 (130.19)	25.00 (180.82)	22.50 (162.74)	35.00 (253.15)	39.50 (285.70)	41.00 (296.55)	58.00 (419.51)	68.00 (491.84)
M22 x Std.	15.50 (112.11)	16.00 (115.72)	24.50 (177.20)	21.00 (151.89)	30.00 (216.99)	26.00 (188.05)	42.00 (303.78)	46.00 (332.71)	49.00 (354.41)	67.00 (484.61)	75.00 (542.47)
M22 x 1.5	17.00 (122.96)	18.50 (133.81)	28.00 (202.52)	24.00 (173.59)	34.00 (245.92)	29.00 (209.75)	47.00 (339.95)	52.00 (44.76)	56.00 (405.04)	75.00 (542.47)	85.00 (614.80)
M24 x Std.	20.50 (148.27)	21.50 (155.50)	33.00 (238.68)	27.00 (195.29)	40.00 (289.32)	34.00 (245.92)	55.00 (397.81)	58.00 (419.51)	63.00 (455.67)	82.00 (593.10)	92.00 (655.43)
M24 x 1.5	23.00 (166.35)	35.00 (253.15)	37.00 (267.62)	31.00 (224.22)	45.00 (325.48)	38.00 (202.52)	61.00 (441.21)	67.00 (484.61)	74.00 (535.24)	93.00 (672.66)	103.00 (744.99)

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COMPONENT LOCATIONS

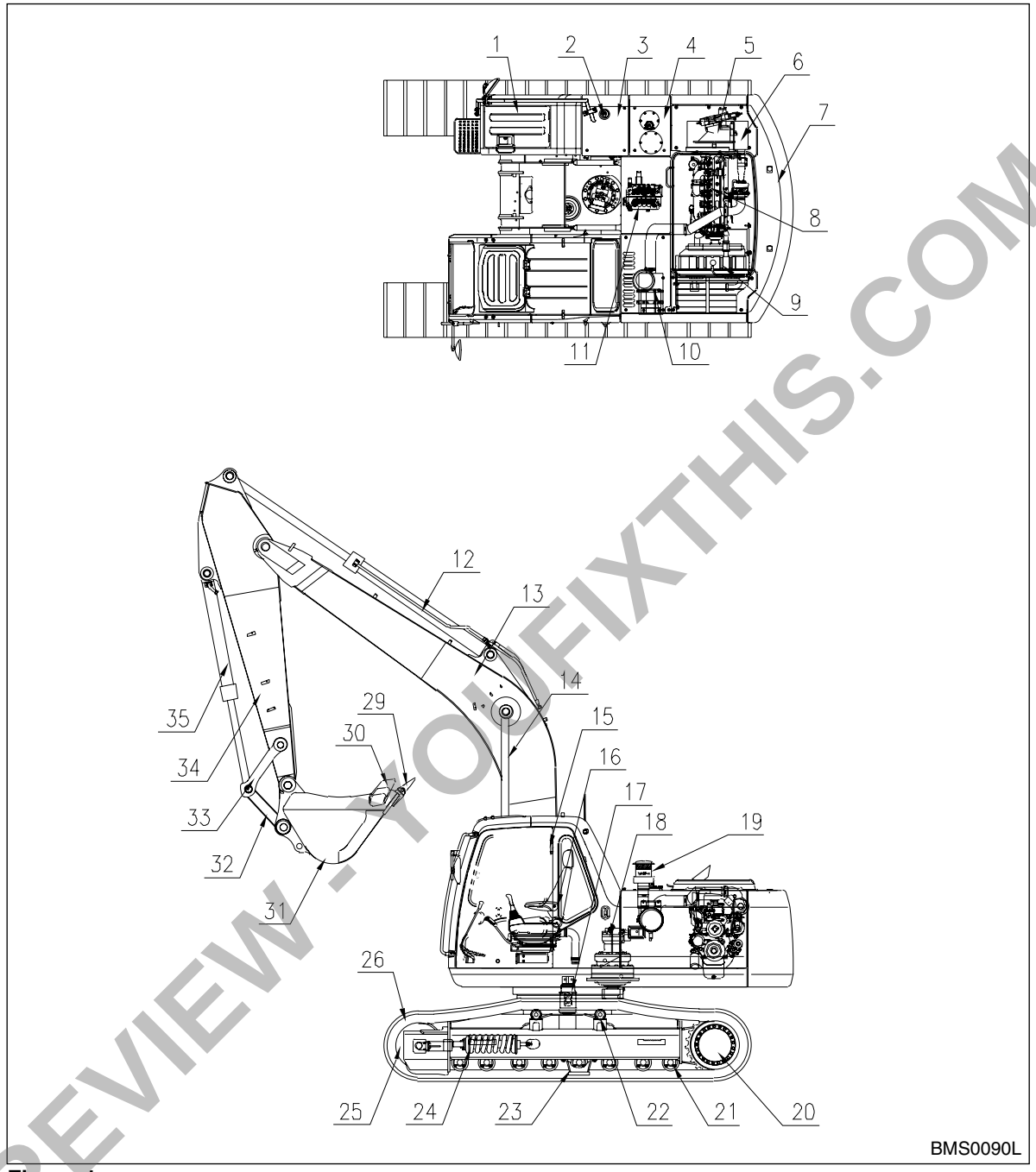


Figure 1

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REMOVAL

⚠ CAUTION!

Avoid disassembling cab if there are strong wind gusts, which could catch large surface area of cab shell and push it sideways during lift.

1. Park on firm and level ground.
2. Lower the front attachment (bucket) to the ground.
3. Shut down the engine.
4. Set safety lever on "RELEASED" position.
5. Turn starter switch "ON."

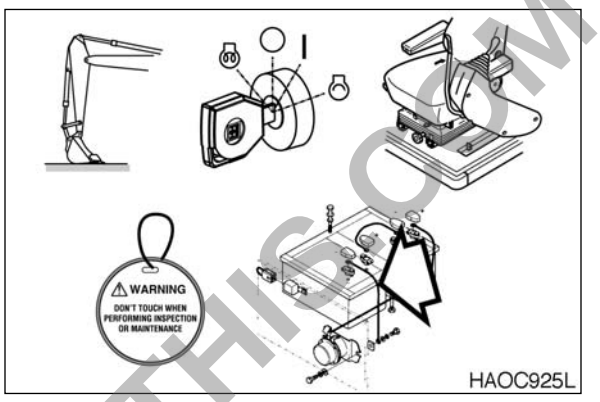


Figure 1

⚠ WARNING!

If engine must be running while performing maintenance, always use extreme caution. Always have one person in the cab at all times. Never leave the cab with engine running.

6. Fully stroke the work levers (joysticks) in all directions to relieve any pressure from the accumulators.
7. Set safety lever to the "LOCK" position.
8. Turn key to the "OFF" position and remove from starter switch.
9. Hang a maintenance warning tag on the controls.
10. Disconnect the battery cable from the negative (-) battery terminal.
11. Prepare cab shell for removal by disconnecting wiring connectors for:
    A. Cab interior lighting.
    B. External light wiring.
    C. Radio antenna and connections.
    D. Wiper/washer connections.

NOTE: *Control console wiring harnesses and hydraulic piping lines that pass through the floor of the cab do not need to be disassembled.*

NOTE: *If unit is equipped with a cab protective structure (for forestry, or hazardous working conditions), it must be removed.*

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Symptoms	Possible Causes	Remedies
1. No rotation and –		
a. Pressure at swing motor inlet increases	Swing brake not releasing	Check brake engagement and disengagement, check release pressure
	Internal damage to gearbox drive train	Replace broken gears, drive train assemblies
	Overload	Reduce load weight
b. Pressure at swing motor inlet shows no increase, **and** the swing motor is making irregular noises	Swing motor drive shaft damage	Replace swing motor
	Internal damage to gearbox drive train	Repair/replace broken or faulty assemblies
c. Pressure at swing motor inlet shows no increase, but **without** irregular noises from the swing motor	Hydraulic pump or valve broken	Troubleshoot hydraulic system
2. Oil leakage		
a. From drive shaft	Oil seal damaged	Replace oil seal
b. From bolted connections or other assembled surfaces	Assembly compound (joint sealer) old and not sealing, bolt not tight or flange warped	Disassemble and check mating surfaces. Reapply Loctite, torque bolts to specifications
3. Excess heat		
Gearbox casing becomes excessively hot, with or without irregular noise(s) during operation	Low oil level	Replace oil, refill to specified level
	Bearings or gear worn but not completely inoperative	Repair or replace gearbox

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C. Failure record deletion

This mode is used to delete the memorized record of past failure. If this mode is selected, all records will be deleted.

When "YES" (↵, 3 on Figure 18) button is pressed, the memorized record will be deleted.
At this time, deletion signal will be displayed and the screen will move to previous menu after deletion.

This screen will be displayed during 3 seconds.

When "NO" (ESC, 4 on Figure 18) button is pressed, the screen will recover to previous menu without deletion.



Figure 36

Code Description of Failure Information

Code	State
0 x	Short Circuit
1 x	Open circuit
2 x	Output error
3 x	Output error
8 x	Communication

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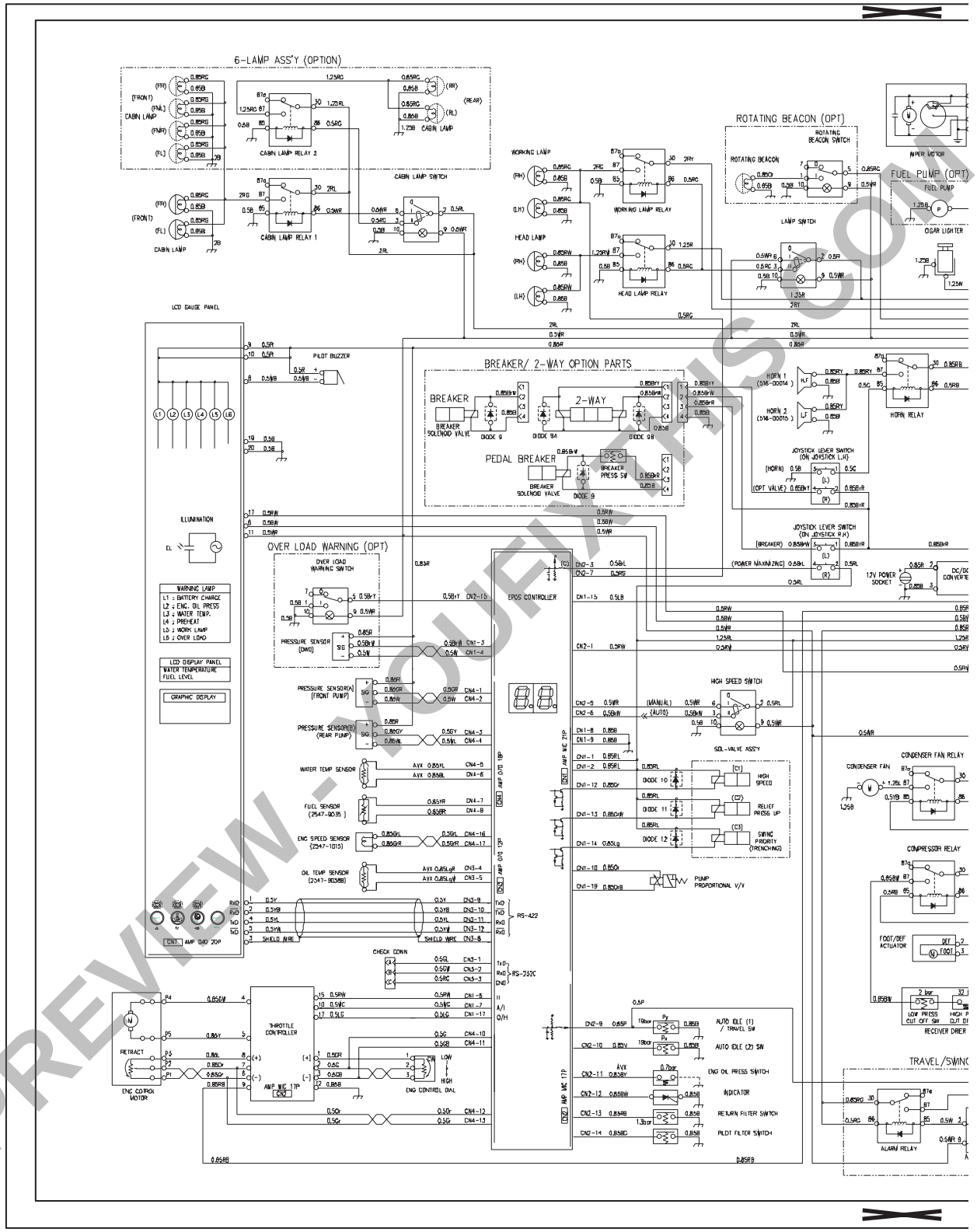


Figure 2

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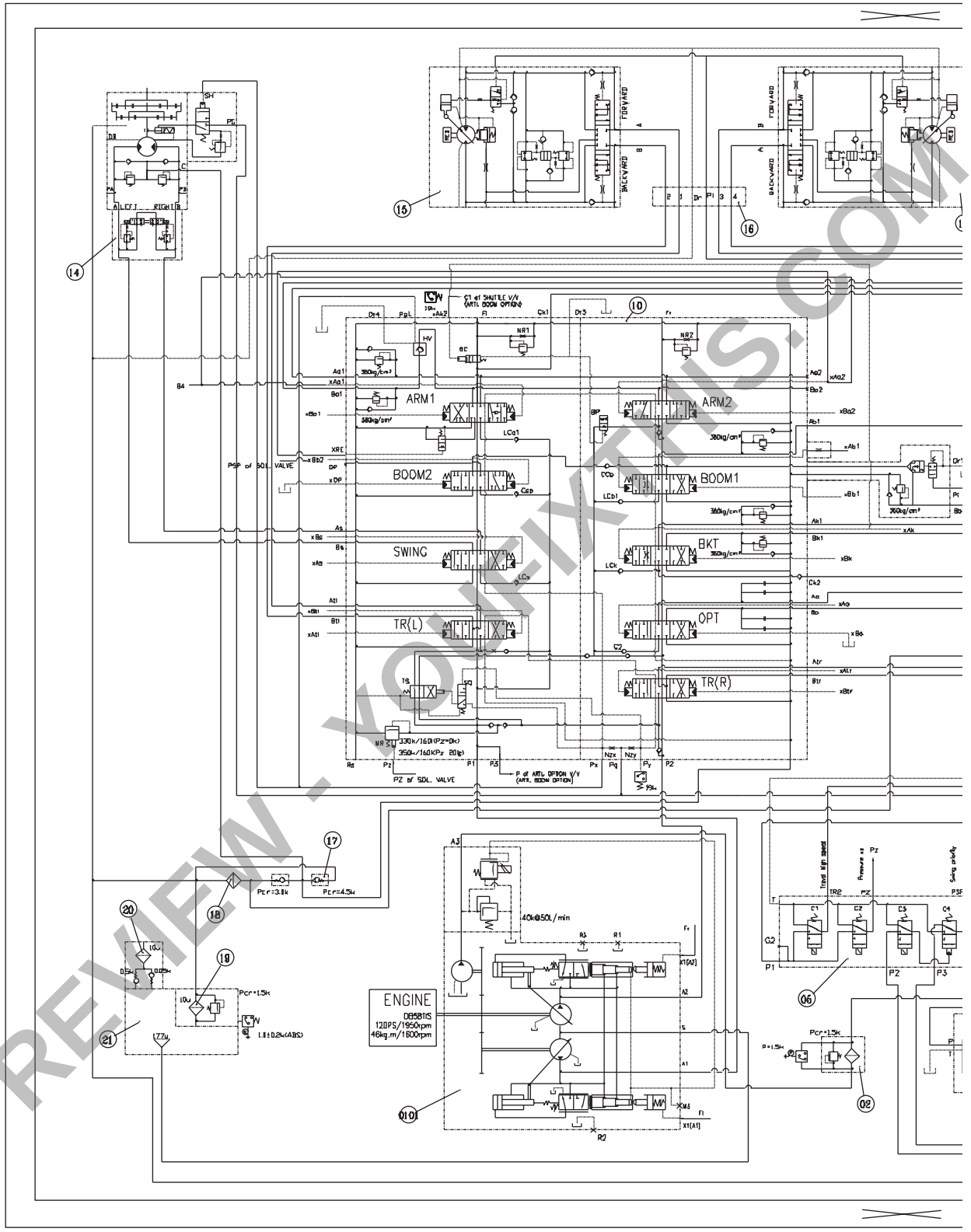


Figure 2

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PERFORMANCE TESTS

1. Main Relief Pressure

   normal operation: 320 kg/cm^3 (4,550 psi)

   with "Pressure Up": 350 kg/cm^3 (4,970 psi)

2. Actuator Speeds

Operation		Unit	Standard Mode	Power Mode
Boom	Up	sec.	4.2 ±0.4	3.5 ±0.4
	Down	sec.	2.8 ±0.4	2.7 ±0.4
Arm	Dump	sec.	3.1 ±0.4	2.8 ±0.4
	Crowd	sec.	4.5 ±0.4	3.8 ±0.4
Bucket	Dump	sec.	3.1 ±0.4	2.6 ±0.4
	Crowd	sec.	3.8 ±0.4	3.5 ±0.4
Swing (3 Revolutions)		sec.	19.5 ±1.0	16.5 ±1.0
Jack-Up Speed (3 Turns)	High	sec.	24.6 ±1.2	22.0 ±1.2
	Low	sec.	40.2 ±1.9	35.0 ±1.9
Travel Speed 20 m (65.62 ft)	High	sec.	15.9 ±0.9	14.4 ±0.9
	Low	sec.	25.7 ±1.3	22.5 ±1.3
Travel Deviation 20 m (65.62 ft)	High	mm (in)	150 (5.91)	150 (5.91)
	Low	mm (in)	150 (5.91)	150 (5.91)

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CLEANING AND INSPECTION (WEAR LIMITS AND TOLERANCES)

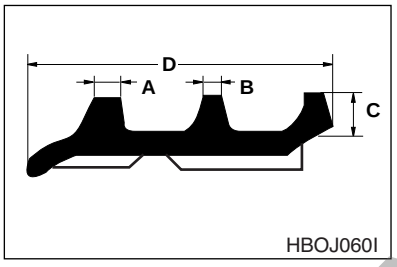
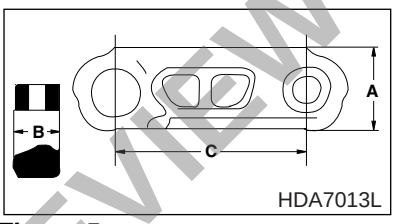
⚠ CAUTION!

Refer to the "Welding Precautions and Guidelines" information in "General Maintenance Procedures" section for general recommendations and specific safety precautions, before starting any lower travel frame component rebuilding procedure.

The tables that follow provide factory-specified dimensional limits (as-new condition, recommended service and replacement limit) for lower travel frame components.

Recommended maintenance to renew most listed components requires welding on additional material and grinding off excess. Some components must be replaced before the service limit is exceeded. No maintenance or renewal is possible.

Compare the values in the tables with dimensions and profiles shown in the adjacent figures.

Component / Reference Dimensions	Reference	Normal (New) Dimension	Recommended Limit for Maintenance	Limit for Use (Repair - P or Replace - R)
Standard 600 mm (23.62 in) Shoe  **Figure 4**	A	18.0 mm (0.71 in)	21.5 mm (0.85 in)	23.5 mm (0.93 in)
	B	11.0 mm (0.43 in)	14.5 mm (0.57 in)	16.3 mm (0.64 in)
	C	20.5 mm (0.81 in)	12.0 mm (0.47 in)	7.0 mm [P] (0.28 in)
	D	198.9 mm (7.83 in)		
Track link, master link  **Figure 5**	A	94.5 mm (3.72 in)	87.0 mm (3.43 in)	80.0 mm [P] (3.15 in)
	B	32.0 mm (1.26 in)	26.0 mm (1.02 in)	21.0 mm [P] (0.83 in)
	C*	171.45 mm (6.75 in)	174.10 mm (6.85 in)	175.60 mm [R] (6.91 in)
	*Check and record the pitch of at least 5 links. Use average of all measurements to assess required service or action. Master links must be replaced, they cannot be renewed or rebuilt.			

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IMPORTANT

Hydraulic system operating conditions (repetitive cycling, heavy work loads, fluid circulating under high pressure) make it extremely critical that dust, grit or any other type of contamination be kept out of the system. Observe fluid and filter change maintenance interval recommendations and always pre-clean any exterior surface of the system before it is exposed to air. For example, the reservoir filler cap and neck area, hoses that have to be disassembled, and the covers and external surfaces of filter canisters should all be cleaned before disassembly.

MAINTENANCE SERVICE AND REPAIR PROCEDURE

GENERAL PRECAUTIONS

Fluid level and condition should always be checked whenever any other type of maintenance service or repair is being performed.

NOTE: *If the unit is being used in an extreme temperature environment (in sub-freezing climates or in high temperature, high humidity tropical conditions), frequent purging of moisture condensation from the hydraulic reservoir drain tap should be a regular and frequent part of the operating routine. In more moderate, temperate climates, draining reservoir sediment and moisture may not be required more than once or twice every few months.*

Inspect drained oil and used filters for signs of abnormal coloring or visible fluid contamination at every oil change. Abrasive grit or dust particles will cause discoloration and darkening of the fluid. Visible accumulations of dirt or grit could be an indication that filter elements are overloaded (and will require more frequent replacement) or that disintegrating bearings or other component failures in the hydraulic circuit may be imminent or have already occurred. Open the drain plugs on the main pump casings and check and compare drain oil in the pumps. Look for evidence of grit or metallic particles.

Vibration or unusual noise during operation could be an indication of air leaking into the circuit (Refer to the appropriate Troubleshooting section for component or unit for procedures.), or it may be evidence of a defective pump. The gear-type pilot pump could be defective, causing low pilot pressure, or a main pump broken shoe or piston could be responsible.

NOTE: *If equipped, indicated operating pressure, as shown on the multidisplay digital gauge on the Instrument Panel ("F-Pump" and "R-Pump") will be reduced as a result of a mechanical problem inside the pump. However, pressure loss could also be due to cavitation or air leakage, or other faults in the hydraulic system.*

Check the exterior case drain oil in the main pumps. If no metallic particles are found, make sure there is no air in the system. Unbolt and remove the tank return drain line from the top part of the swing motor, both travel motors and each main pump. If there is air in any one of the drain lines, carefully pre-fill the assembly before bolting together the drain line piping connections. Run the system at low rpm.

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GENERAL MAINTENANCE

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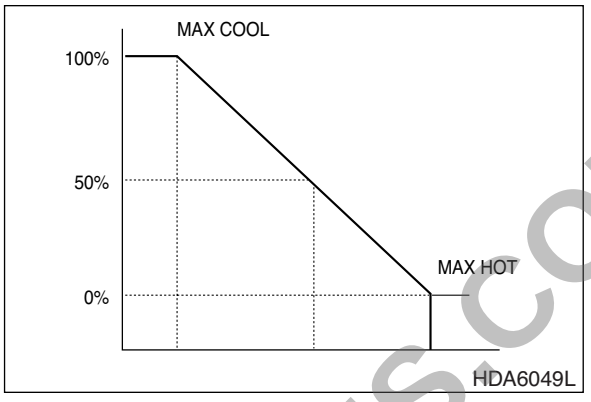
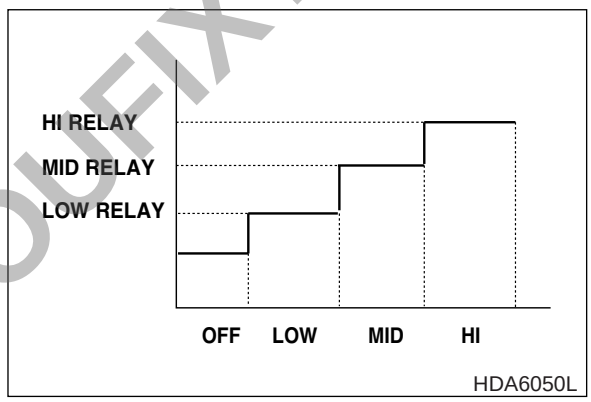
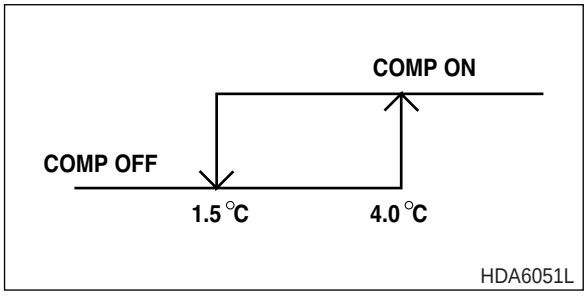
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CONTROL SPECIFICATIONS

Control Item	Control Switch	Control Specifications
Temperature Control	"COOL" Switch "WARM" Switch	 **Figure 7** Temperature control switch consists of a 24 step variable selector. The display uses 7, Green / Red two color LEDs to display the selected temperature.
Blower Fan Speed Control	"OFF" Switch "LOW" Switch "MID" Switch "HI" Switch	 **Figure 8**
Compressor Control	Temperature Sensor	 **Figure 9**

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GENERAL DESCRIPTION

THEORY OF OPERATION

Refer to the assembly cross-section at the end. Travel motor consists of the hydraulic motor and reduction gearbox.

Hydraulic motor consists of the rotary part, cross relief valve, negative brake, counter balance valve and tilting parts. The reduction gearbox consists of a 3-speed planetary gearbox. Figure 1, shows the motor as a symbol.

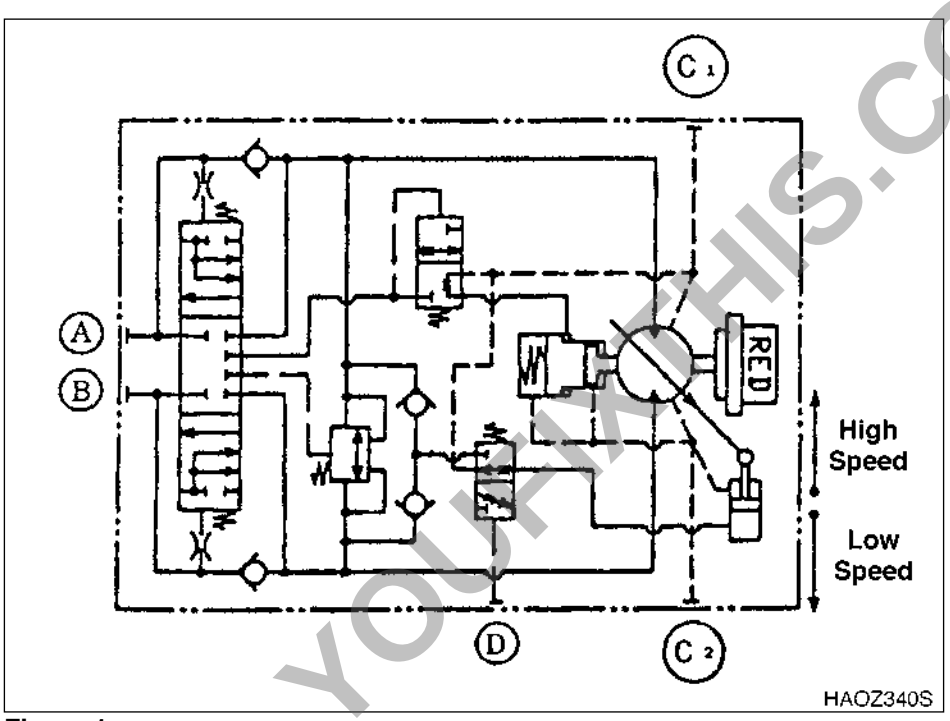


Figure 1

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2. Sealing surface of the housing.

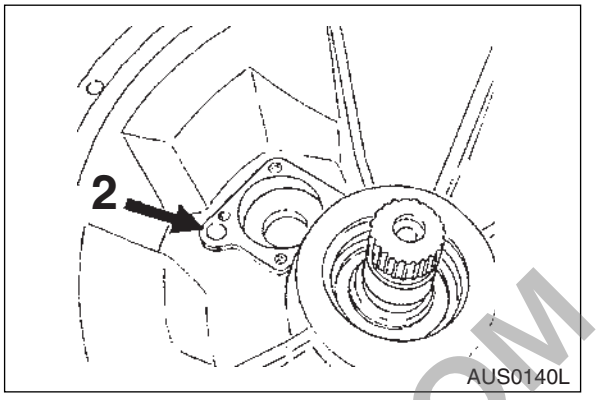


Figure 33

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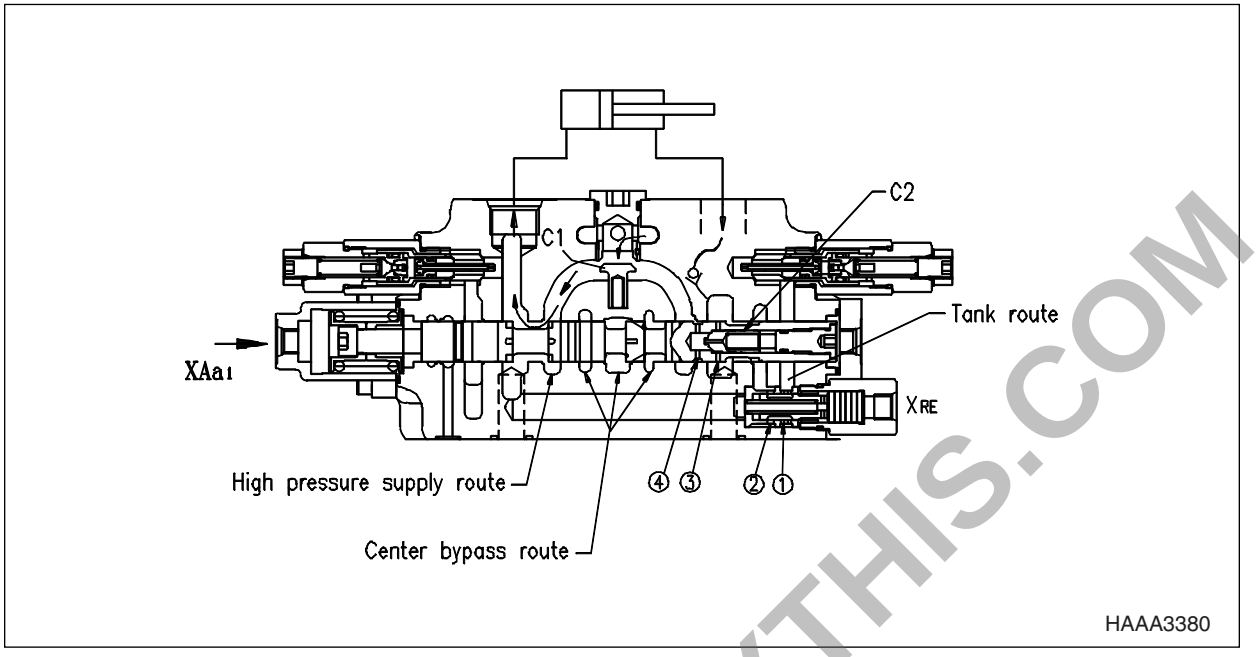


Figure 21

1. If the arm plunger is operated to crowd side, the plunger moves to the right side and the center bypass route is interrupted. The oil from pump opens check valve C1 from parallel route and flows to the cylinder head through the high pressure supply route.

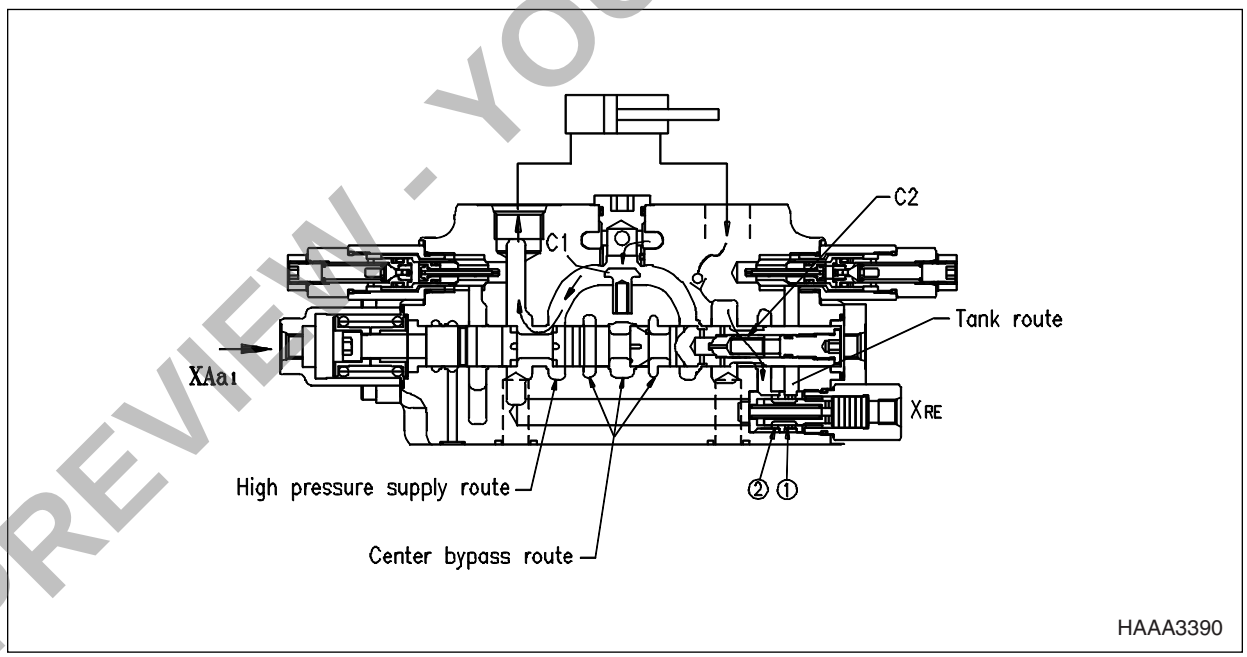


Figure 22

2. Oil returning from the rod side flows back to the tank through regeneration valve route (2) to route (1).

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8. Install three screws, one bolts and washers (7, Figure 42), and cover (4).
9. Install two screws, two bolts and washers (6, Figure 42), and cover (3). Push cap (5) into cover (3).
10. Install four bolts and washers (2, Figure 42), and cover (1).

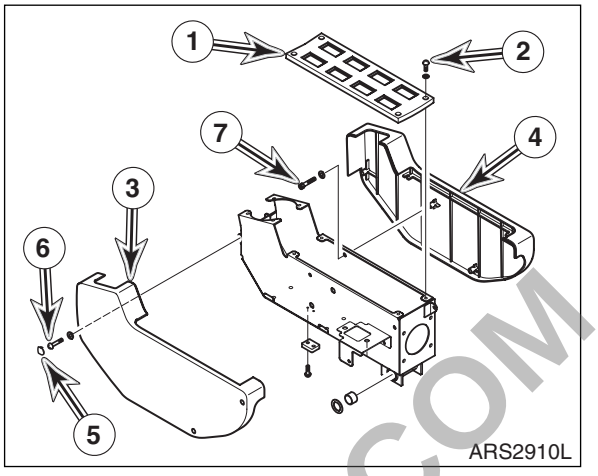


Figure 42

START-UP PROCEDURES

1. Start engine and set throttle at "LOW IDLE."
2. Set safety lever on "UNLOCK" position.

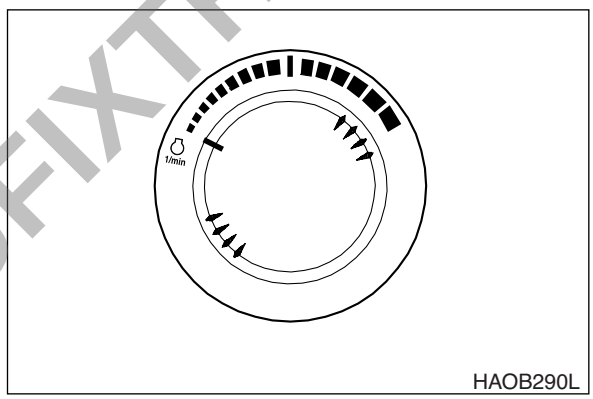


Figure 43

3. Slowly cycle boom, arm, bucket cylinders and swing motor about five times without a load to vent air from pilot lines. Do this for 5 minutes.

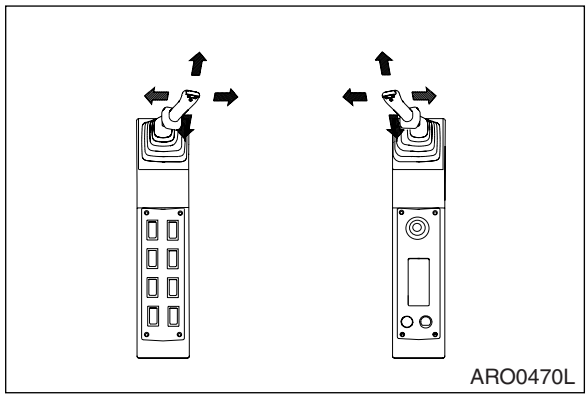


Figure 44

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5. Output Status: Output status of solenoid valves and spare valves are displayed. (Output: "ON"/ Non-output: "OFF")

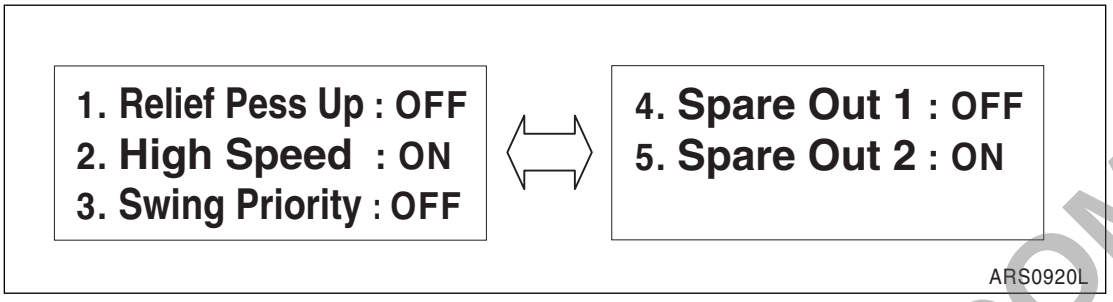


Figure 29

6. Hydraulic Oil Temperature

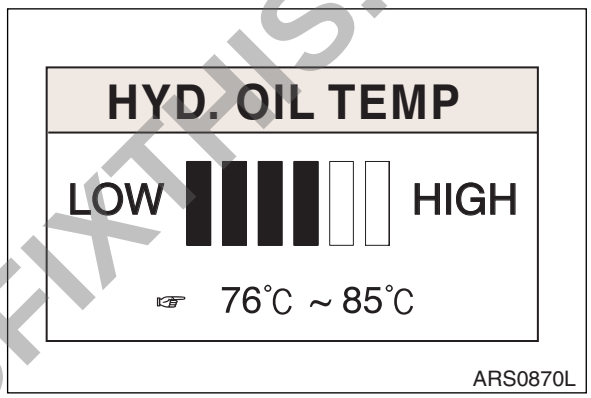


Figure 30

- Display Specification

BAR Graph Display	Input Terminal	Sensor Input Specification	Remarks
1/6 BAR Lit	CN 3 - 4 CN 3 - 5	Over 1,510 Ω	Below 30˚C (Below 86˚F)
1/6 - 2/6 BAR Lit		745 - 1,510 Ω	31 - 50˚C (87 - 122˚F)
1/6 - 3/6 BAR Lit		332 - 745 Ω	51 - 75˚C (123 - 167˚F)
1/6 - 4/6 BAR Lit		244 - 332 Ω	76 - 85˚C (168 - 185˚F)
1/6 - 5/6 BAR Lit		181 - 244 Ω	86 - 95˚C (186 - 203˚F)
1/6 - 6/6 BAR Lit		Under 181 Ω	Over 96˚C (Over 204˚F)

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