GENERAL SPECIFICATIONS

Shipping Weight	40.40 metric tons (44.53 tons), includes 10% fuel, boom, 3,250 mm (10’ 8") arm, standard bucket and standard shoes
Operating Weight	Add weight of full fuel tank and operator.
Shipping Weights With Optional Track Shoes	40.4 ton for 600 mm (24") shoes
	41.1 ton for 750 mm (29.5") shoes
	41.3 ton for 800 mm (31.5") shoes
	41.8 ton for 900 mm (35.4") shoes
Major Component Weights	Standard Boom 6,700 mm (263.78 in.) 3,206 kg (7,068.02 lbs)
	3,250 mm (127.95 in.) Arm 1,833 kg (4,041.07 lbs)
	2,600 mm (102.36 in.) Arm 1,696 kg (3,739.04 lbs)
	4,000 mm (157.48 in.) Arm 2,040 kg (4,497.43 lbs)
	Boom Cylinders 370 kg (815.71 lbs) each
	Arm Cylinder 520 kg (1,146.40 lbs)
	Bucket Cylinder 335 kg (738.55 lbs)
	Counterweight 8,200 kg (18,077.90 lbs)
	Upper Turntable 17,300 kg (38,139.97 lbs) (Including counter weight, w/o front)
	Lower - 14,300 kg (31,526.10 lbs) (Including swing bearing)
Digging Forces (At Power boost):	
Bucket Cylinder	24,100 kg (53,131.40 lbs) with 3,250 mm (10’ 8") arm
Arm Cylinder	19,300 kg (42,549.21 lbs) with 3,250 mm (10’ 8") arm
	23,700 kg (52,249.55 lbs) with 2,600 mm (8’ 6") arm
	16,700 kg (36,817.20 lbs) with 4,000 mm (13’ 1") arm
Fuel Tank Capacity	535 liters (141.24 U.S. gal.)
Hydraulic Reservoir Capacity	255 liters (67.32 U.S. gal.)
Bucket Heaped Capacity Range	CECE 1.30 - 2.00 cu. m
	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	600 mm (23.62 in.) - standard
	750 mm (29.53 in.) - optional
	800 mm (31.50 in.) - optional
	900 mm (35.43 in.) - optional
Ground Pressure Ratings:	
Standard 600 mm (23.62 in.) shoe	0.73 bar (10.59 psi)
Optional 750 mm (29.53 in.) shoe	0.59 bar (8.56 psi)
Optional 800 mm (31.50 in.) shoe	0.56 bar (8.12 psi)
Optional 900 mm (35.43 in.) shoe	0.50 bar (7.25 psi)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL MAINTENANCE PROCEDURES

⚠ 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
ALL MODELS	ALL RANGES

PREVIEW - YOUFIXTHIS.COM

Copyright 2000 Daewoo

October 2000

Download full manual at youfixthis.com

TORQUE VALUES FOR STANDARD METRIC FASTENERS

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

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)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

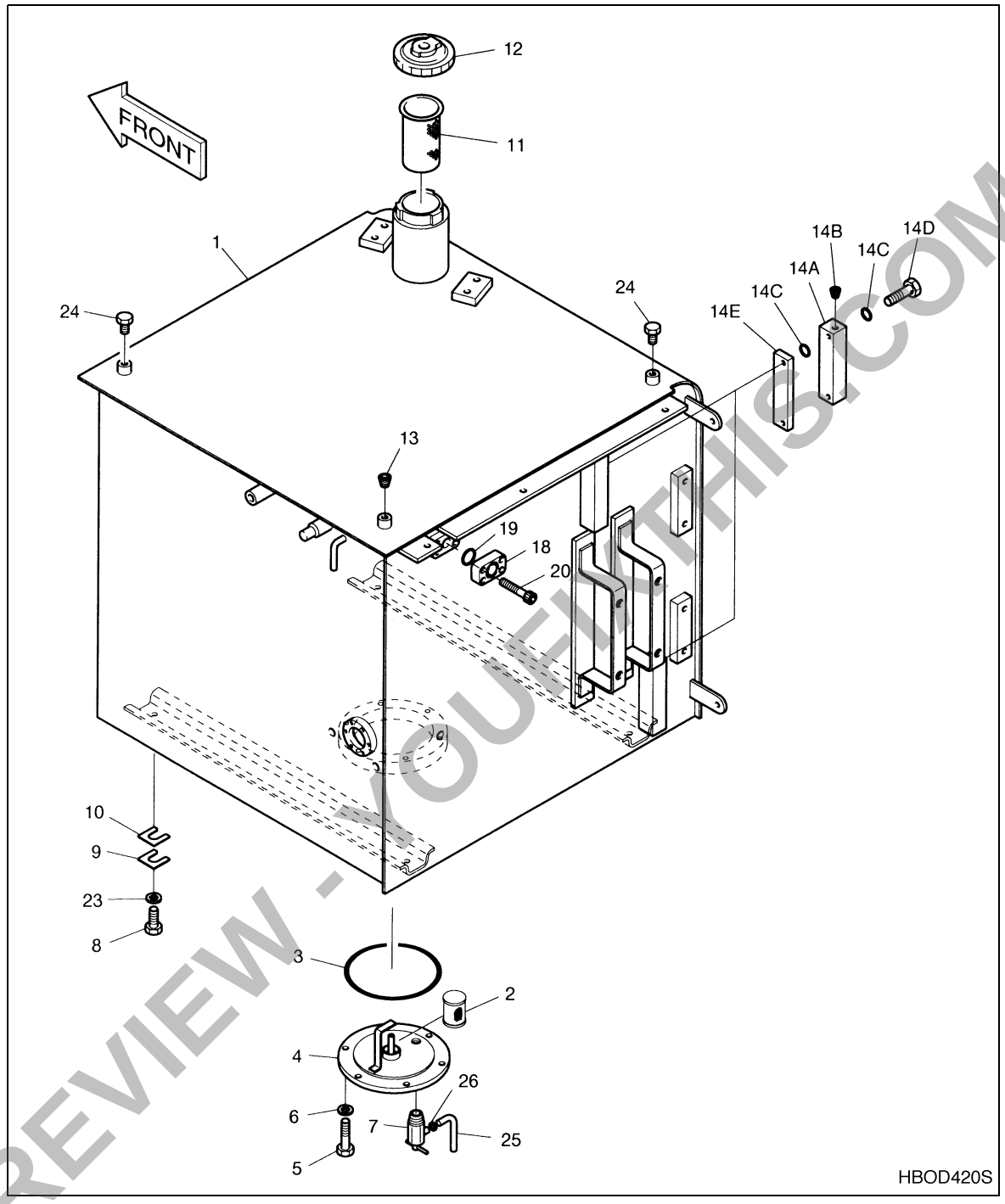


Figure 1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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

HAOE960L

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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 bucket to ground.
3. Shut engine down and remove key from starter switch.

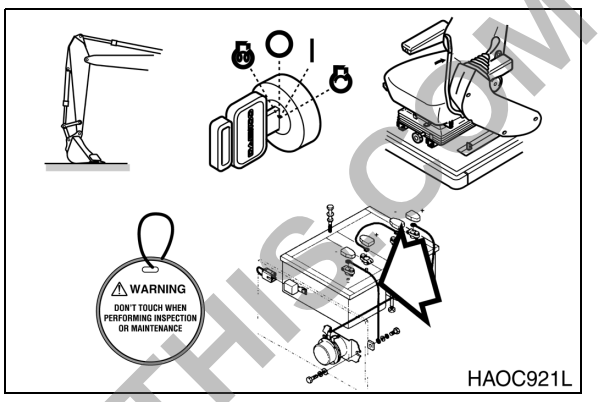


Figure 1

⚠ WARNING!

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

4. Set safety lever on "LOCK" position.
5. Hang maintenance warning tag on controls.
6. Disconnect negative (-) battery cable leading to frame from battery.
7. 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.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL DESCRIPTION

Schematic(s) presented in this section are laid out on facing pages.

An overlapping edge has been taken into consideration so that a photocopy can be made and pasted together to make a complete schematic.

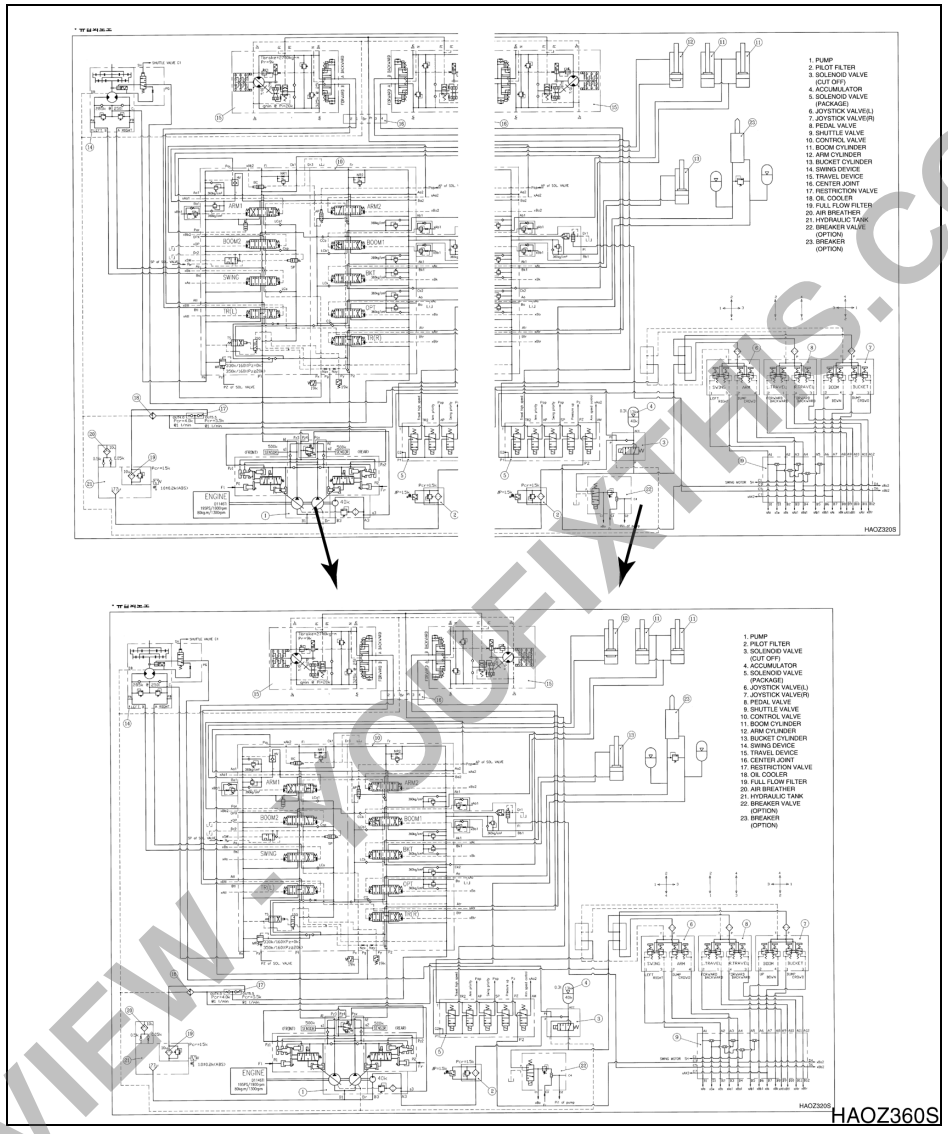


Figure 1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL DESCRIPTION

Schematic(s) presented in this section are laid out on facing pages.

An overlapping edge has been taken into consideration so that a photocopy can be made and pasted together to make a complete schematic.

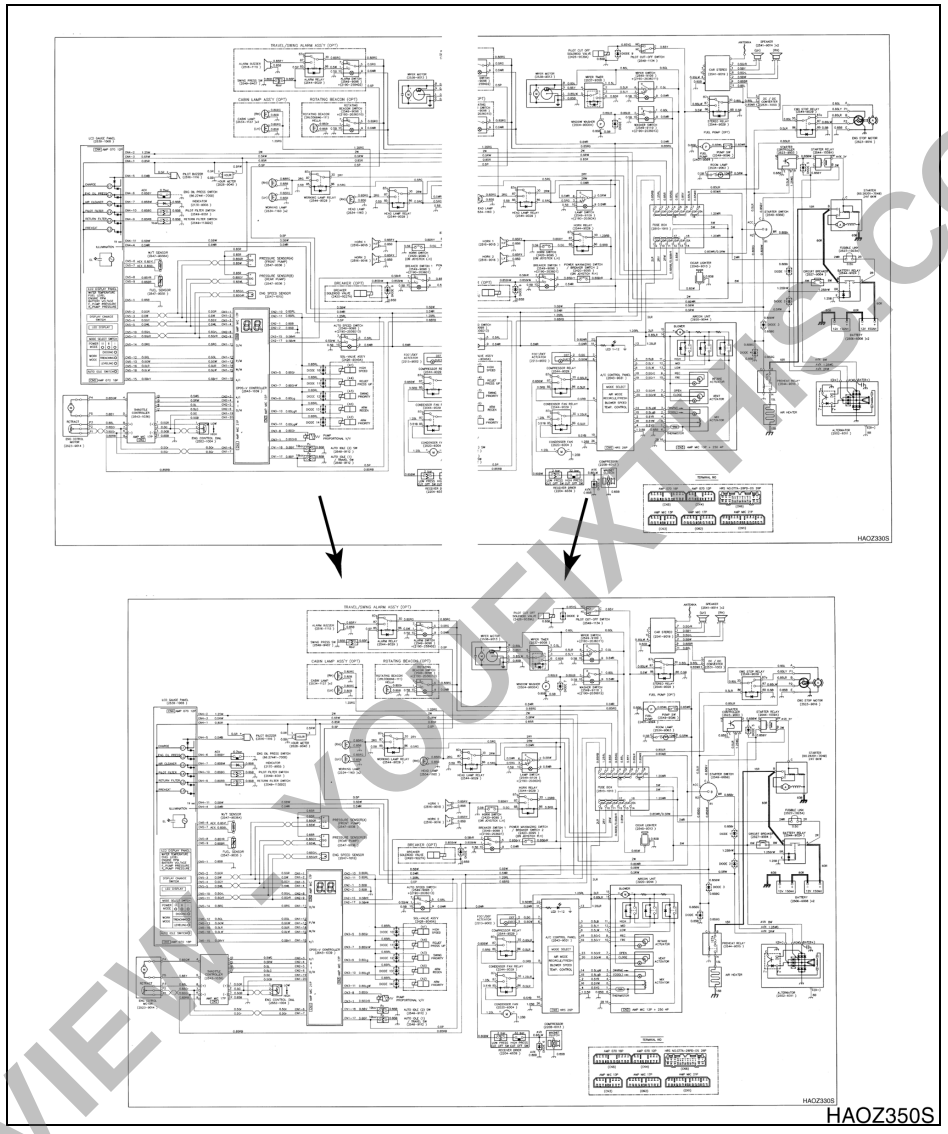


Figure 1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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
Solar 130LC-V	0001 and Up
Solar 220LC-V	0001 and Up
Solar 170LC-V	1001 and Up
Solar 220N-V	1001 and Up
Solar 250LC-V	1001 and Up
Solar 290LC-V	0001 and Up
Solar 330LC-V	1001 and Up
Solar 400LC-V	1001 and Up
Solar 450LC-V	1001 and Up

PREVIEW - YOUFIXTHIS.COM

Copyright 2000 Daewoo

October 2000

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

I. "Loctite" Fastener Adhesives

Product	Application	Color	Removal	Break-away Cure Strength (In/lb) Of Sealer Alone
222	Low strength for 6 mm (1/4") or smaller fasteners.	Purple	Hand tools	45
242 or 243	Medium strength for 6 mm (1/4") and larger fasteners.	Blue	Hand tools	80
262	High strength for high grade fasteners subject to shock, stress and vibration.	Red	Heat/260°C (500°F) Remove HOT (NO solvent)	160
271	Extra high strength for fine thread fasteners up to 25 mm (1") diameter.	Red	Heat/260°C (500°F) Remove HOT	160
272	High temperature/high strength for hostile environments to 232°C (450°F).	Red	Heat/316°C (600°F) Remove HOT	180
277	Extra high strength for coarse thread fasteners 25 mm (1") diameter and larger.	Red	Heat/260°C (500°F) Remove HOT	210

II. "Loctite" Pipe Thread Sealant

Product	Application	Color	Removal	Required Setup
545	"No-filler/non-clog" formula for high-pressure hydraulic systems. Over-application will not restrict or foul system components.	Purple	Hand tools	4 Hours (or 1/2 hour with Locquic "T" Primer)
656	Solvent-resistant, higher viscosity tapered thread sealer.	White	Hand tools	4 Hours (or 1/2 hour with Locquic "T" Primer)

III. "Loctite" gasket/flange sealer

Product	Application	Color	Notes
518	Gasket eliminator specifically made for aluminum flanges/surfaces. For hydraulic systems to 34,475 kPa (5,000 psi).	Red	Use Locquic "N" primer for fast (1/2 to 4 hours) setup. Unprimed setup 4-24 hours.
504	Low pressure/wide-gap gasket eliminator compound. Fills gaps to 0.0012 mm (0.030"), cures to rigid seal.	Orange	Use Locquic "N" primer for faster (1/2 to 4 hours) setup. Unprimed setup 4-24 hours.
515	General purpose, fast setup, flexible-cure gasket eliminator. For non-rigid assemblies subject to shock, vibration or deflection.	Purple	Use Locquic "N" primer for faster (1/4 to 2 hours) setup. Unprimed setup 1-12 hours.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

REPLACEMENT OF AMATEUR

You can replace only the amateur in case motor was damaged by a short circuit.

Remove the switch cover and rear cover, than remove the amateur from the housing.

Loosen the pump cover and remove the rotor and vane.

Insert a new amateur into the housing.

Refer to “Replacement of Rear Cover” on page 4, for installation of rear cover.

Fit the rotor in the shaft flute of amateur. Insert vane to the rotor being careful for the direction. Refer to “Replacement of Rotor and Vane” on page 4

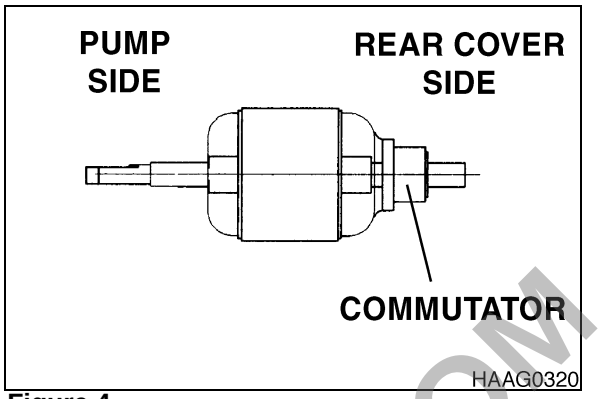


Figure 4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TRACK REMOVAL

1. Position machine on a smooth level surface with adequate room for forward and reverse travel.
2. Relieve track tension. Refer to "Track Tension" in this section for procedure.
3. Move machine until master link (1) is positioned at approximately 10 o'clock from top position on travel reduction gearbox.
4. Remove four nuts and bolts (2) holding shoe to link. Remove enough shoes to make access to lock pin easier.

   NOTE: *Support track shoes with blocking so that when master pin (4) is removed tack will not fall.*

5. Straighten lock pin (3) and remove it from master pin (4). Discard lock pin.
6. Remove master pin from master links.
7. Move unit forward until entire track is laying on ground.

   NOTE: *Do not drive unit off track.*

8. Rotate upper structure to 90° from track. Use bucket and boom to raise track frame off track.
9. Position blocking under frame.

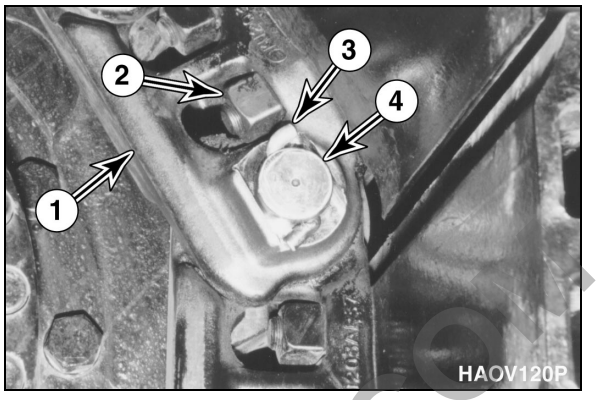


Figure 14

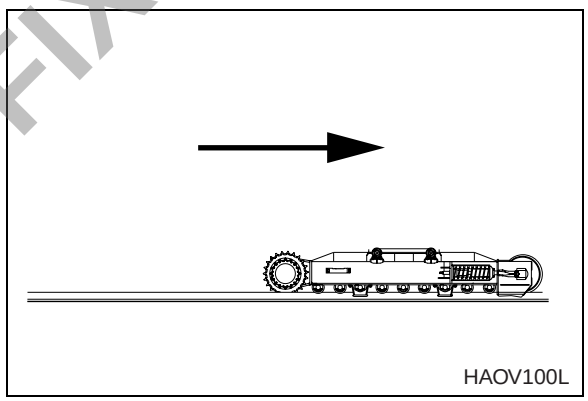


Figure 15

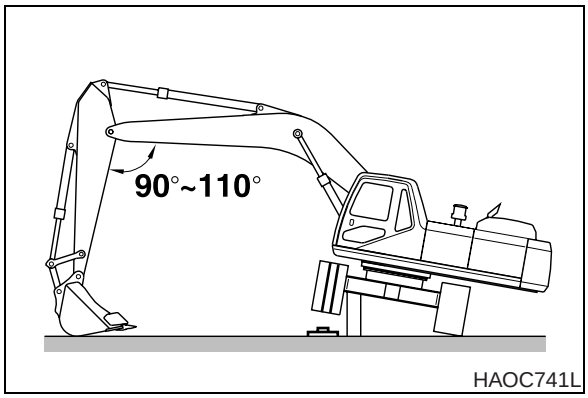


Figure 16

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

REFRIGERANT RECOVERY

Reference Number	Description
1	To Compressor
2	Low Pressure Side
3	High Pressure Side
4	From Receiver
5	Refrigerant Recovery Tank

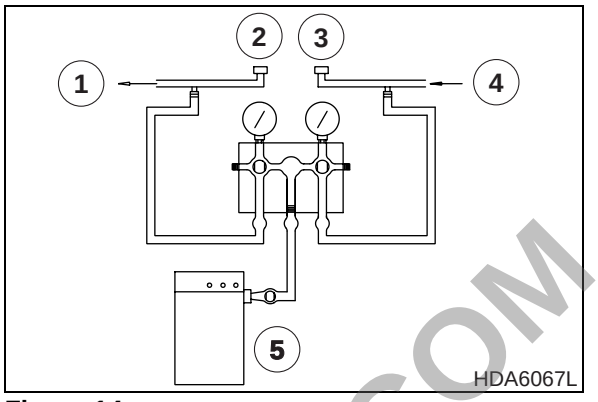


Figure 14

1. Attach the manifold gauges and the refrigerant recovery unit to the refrigerant lines as shown.

   NOTE: *Be careful not to switch the connections for the low and high pressure valves.*

2. Open the high pressure valve slowly to release the refrigerant to the recovery unit.

   NOTE: *Open the valve slowly, while checking to see that refrigerant is not leaking out.*

3. When the manifold gauge dial falls below 3.5 kg/sq cm (50 psi), slowly open the low pressure valve.

4. Open both the high and low pressure valves slowly until the manifold gauge dials indicates 0 kg/sq cm (0 psi).

VACUUMING REFRIGERANT SYSTEM

Reference Number	Description
1	To Compressor
2	Low Pressure Side
3	High Pressure Side
4	From Receiver
5	Vacuum Pump

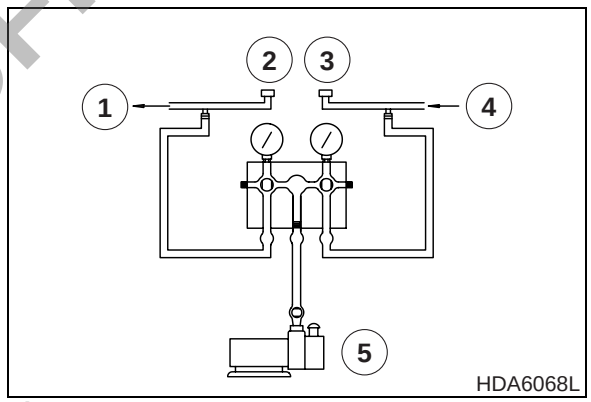


Figure 15

1. Vacuuming Procedure

   NOTE: *When the A/C system has been exposed to the air, it must be vacuumed out. Perform vacuum process for 30 minutes for complete moisture and air evacuation.*

   A. Attach the manifold gauges and vacuum pump to the refrigerant system as shown.

   B. Turn on the vacuum pump and open both valves.

   C. When the low pressure gauge shows approximately 710 mmHg, close both valves and turn off vacuum pump.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

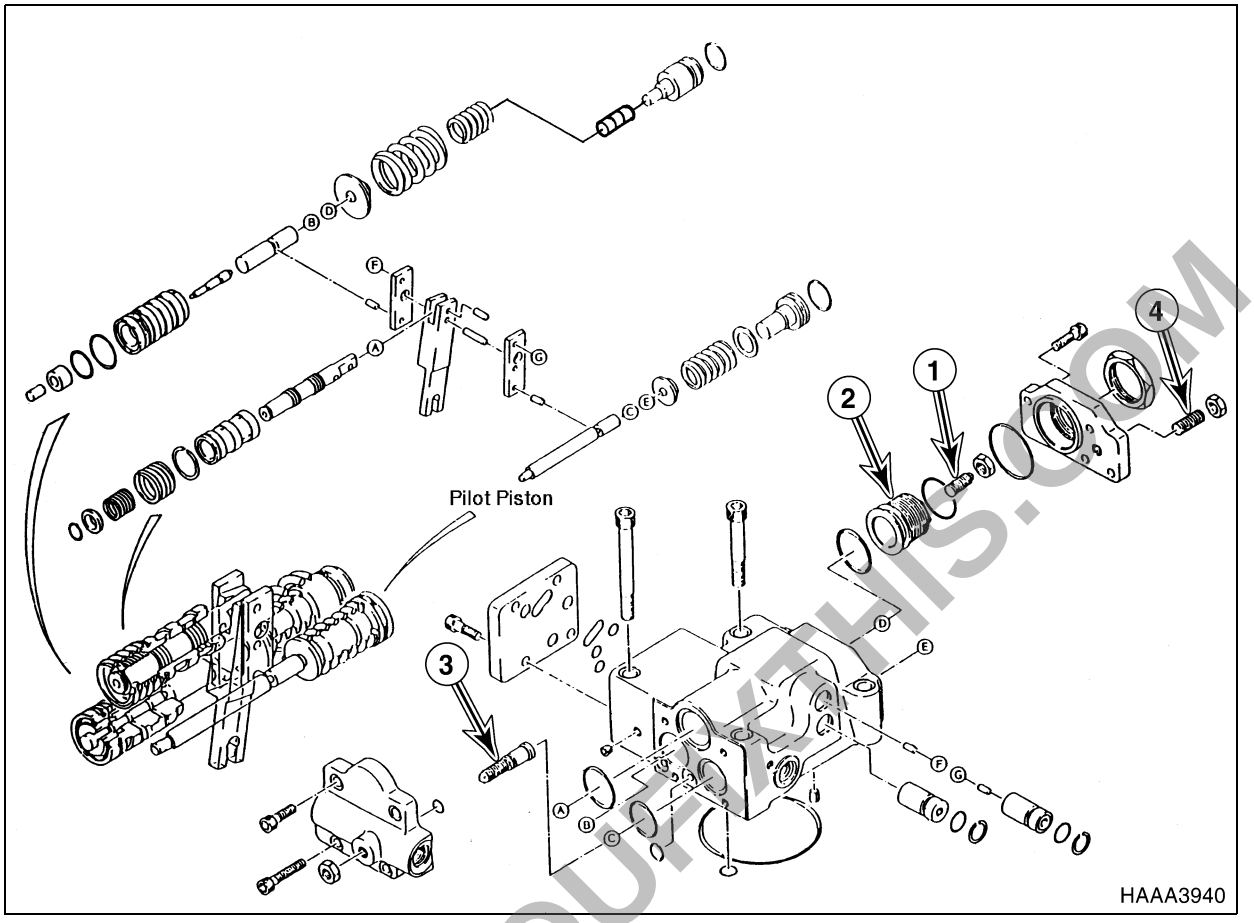


Figure 14

Refer to the illustration of the pump regulator control valve (Figure 14) for the location of adjustment screws (1, 2 and 3). There are three different adjustments, along with the Negacon, negative control, adjustment screw (4, directly below 1 and 2). Each one of the adjustment procedures could affect the setting of the others.

Check and record the arm dump speed performance test before and after input power adjustment, whether or not a flow meter is used.

NOTE: *Regulator adjustments affect total cumulative horsepower, since each regulator compensates for the output of the other. It is not necessary to adjust both regulators at the same time, but after checking or adjusting one of them, the remaining unit should also be checked.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

7. Immobilize piston rod by inserting a wooden or other non-scoring, non-metallic support through end of rod.

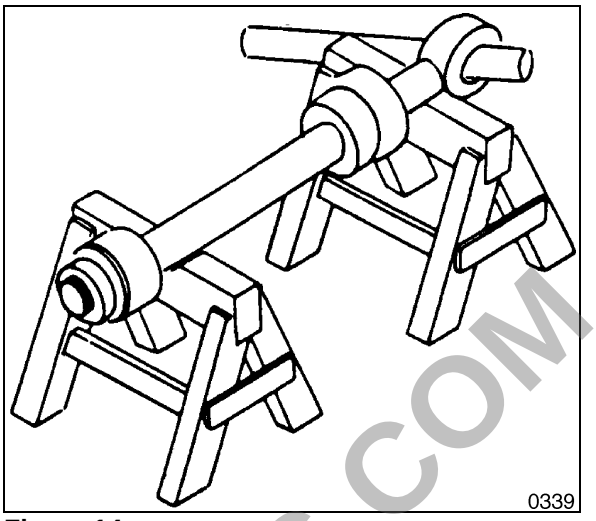


Figure 14

8. Loosen set screw by using a socket wrench.

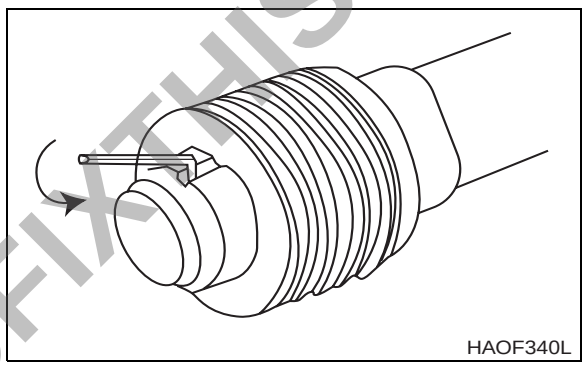


Figure 15

9. Fabricate or purchase a piston nut removal wrench. (Dimensions are called off at beginning of this procedure. This tool may also be ordered through your local Daewoo Parts distributor). Remove nut from end of piston.

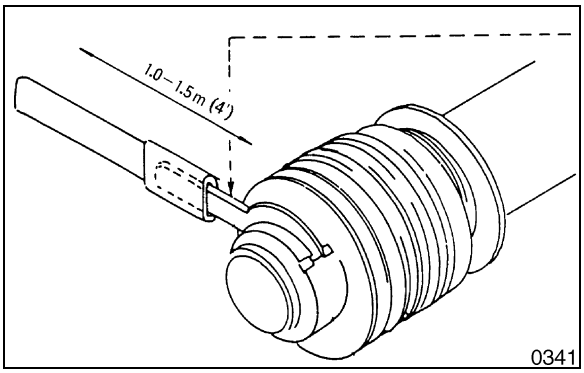


Figure 16

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL DESCRIPTION

THEORY OF OPERATION

The hydraulic schematic for the Travel Motor shows the Parking Brake (1), Dual Counterbalance Valve (2), Relief Valve with anti-shock feature (3), and two speed shift valve (4). The Brake circuit is composed of the Counterbalance Valve (2) and the Relief Valve (3).

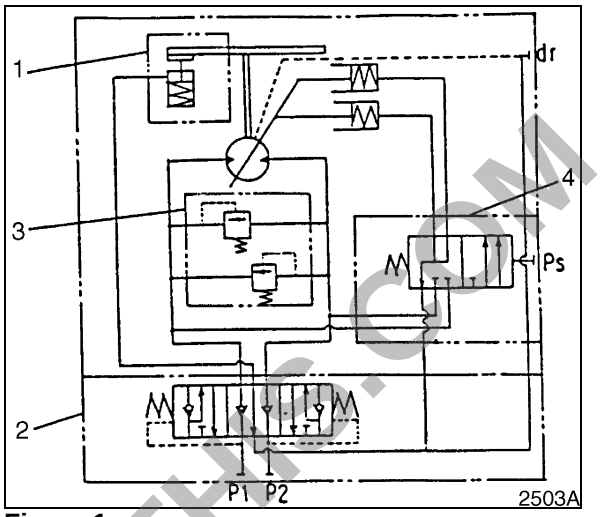


Figure 1

TRAVEL MOTOR BRAKE

The Travel Motor contains an integral brake which is composed of a revolving disc (friction plate), brake piston, and a spring. The brake is spring set and hydraulically released.

When oil from the pump enters the travel motor, it flows into the brake release cylinder chamber. This oil moves the brake piston and overcomes the spring force that applies the brake. This releases the brake. When the travel motor is not rotating, the oil that would normally hold off the brake is directed to the tank.

The brake is applied when the travel motor is not propelling the excavator, and when the machine is turned off. The brake prevents the excavator from rolling down a slope. The anti-shock feature of the Relief Valve prevents lurching when starts and stops are made.

COUNTERBALANCE VALVE

This valve has a counterbalance function and a shuttle function.To carry out the counterbalance function, this valve controls the motor output oil flow so that motor output flow does not exceed motor input flow, which would cause cavitation and motor slippage.

To carry out the shuttle function, when the counterbalance valve plunger first senses oil pressure from the pump, this valve opens the port that supplies oil to the brake release cylinder chamber, and this prevents the brake from being applied. When pump flow is no longer directed to the travel motor, the counterbalance valve closes the port that supplies oil to the brake release chamber, and the spring can now apply the brake.

RELIEF VALVE

The relief valve senses pressure in the motor supply line and empties fluid to the motor tank port, when the motor is rotating in either the forward or reverse direction. This valve also has a shock minimizing function that reduces the shock that occurs when starting or stopping travel.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

18. Install thrust plate (8, Figure 78) on top of drive gear (9).

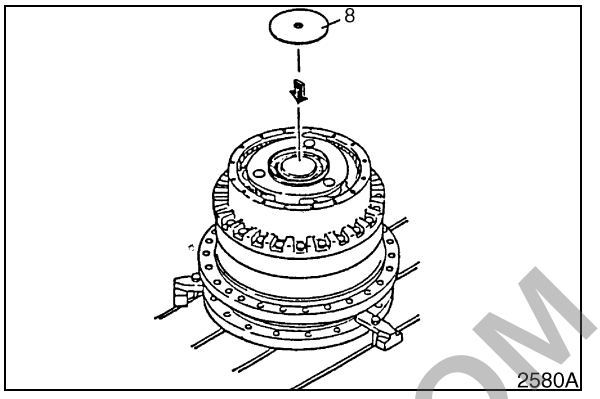


Figure 78

19. Apply a bead of "Form a Gasket" to the underside of gearbox cover (4, Figure 79). Set cover (4) onto the ring gear case (5). Install the bolts (1) and tighten.

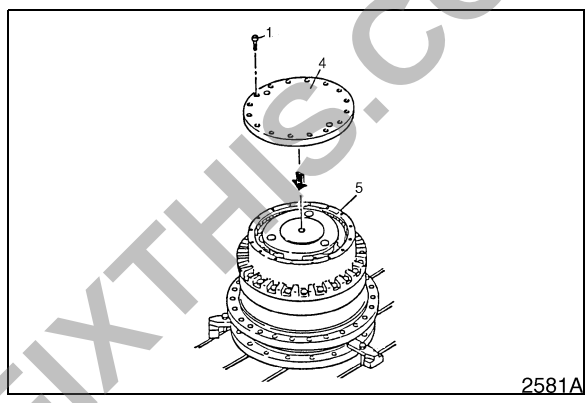


Figure 79

20. Wrap Teflon sealing tape around plugs (2 and 3,Figure 80). Install and tighten the plugs.

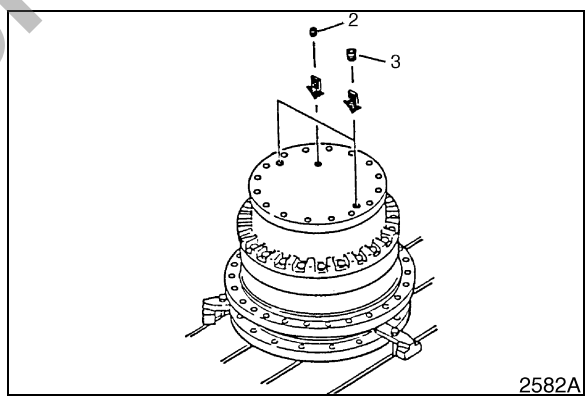


Figure 80

21. Turn the entire travel gear case upside down. See Figure 81. Set the plates (43) into position. Insert the bolts (44) through the plates (43) and tighten.

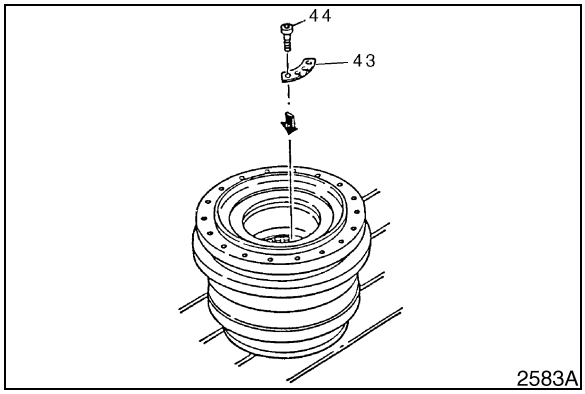


Figure 81

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TABLE OF CONTENTS

Control Valve Operation 4
Arm Priority-Swing Circuitry 4
Bucket (Junction) Circuitry 5
Straight Travelling Circuit 6
Option Junction Flow Circuit 9
Plunger Replacement 10
Main Relief Valve 11
Overload Relief Valve 12
Boom Load Holding Valve 15
Priority Valve 18
Boom Regeneration 20
Arm Regeneration 21
Foot Relief Valve 23
Parts List 24
Specifications 33
Bench Test Specifications 41
Torque Specifications 42
Control Valve Hydraulic Circuit 44
Special Tools and Materials 45
Special Tools 45
Disassembly and Reassembly 46
General Disassembly 46
General Reassembly 47
Main Plunger Element - Disassembly and Assembly 48
Tool 48
Cover 51
Orifice 52
Main Relief Valve 53
Main Relief Valve Adjustment 54
Overload Relief Valve 56
Load Holding Valve 58

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

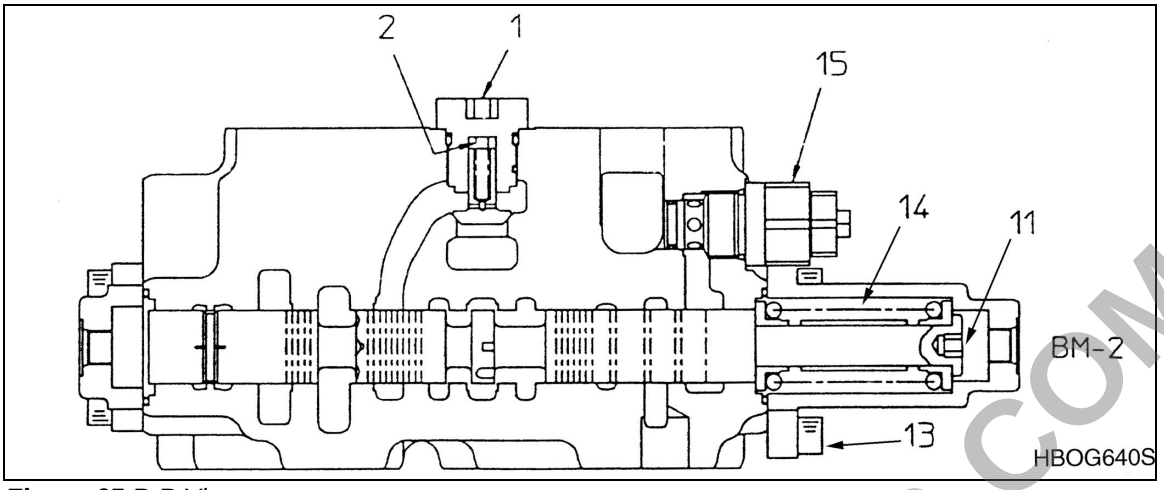


Figure 65 P-P View

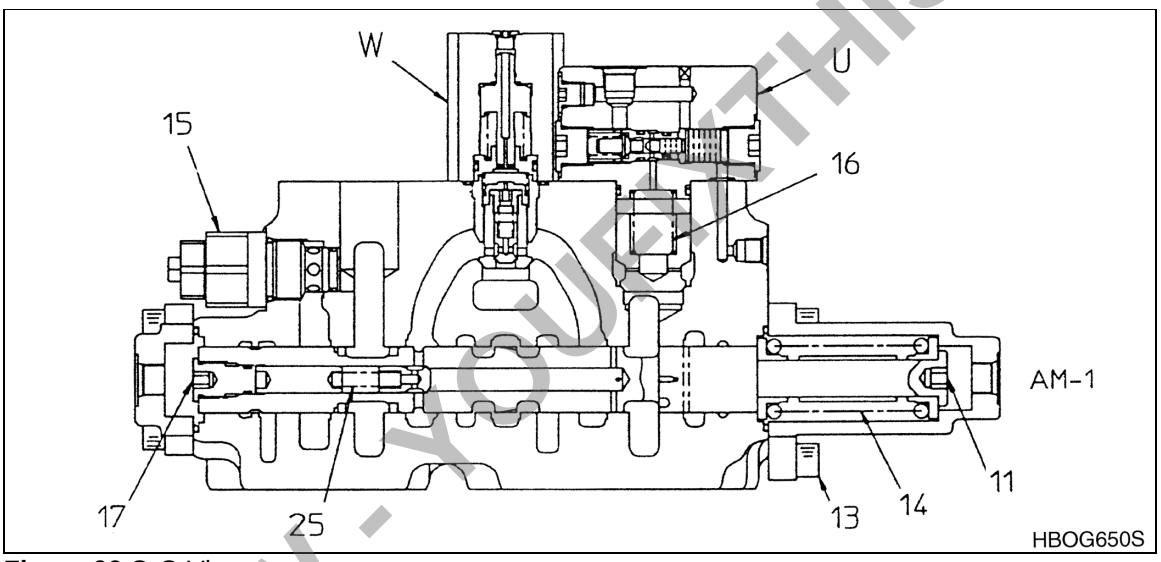


Figure 66 Q-Q View

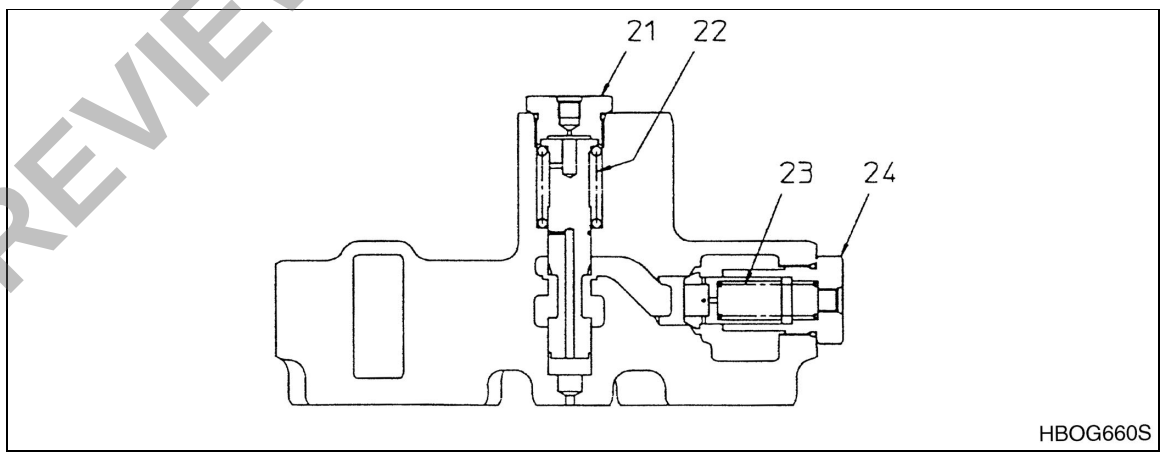


Figure 67 R-R View

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL DESCRIPTION

THEORY OF OPERATION

The pilot control valve contains four push rods, a spring holder and return spring, which are located in the valve casing. The valve works as a pressure reduction valve.

The housing has six ports, which include input port "P," tank port "T" and four secondary pressure ports.

The electric horn switch is installed in the valve handle. Gear pump pressure is used for operating control spools.

Neutral Mode

When the lever is in neutral mode, the spool (12) is thrust upward by return spring (11), and the force of balance spring (18), which determines the secondary discharge pressure, is not transmitted to the spool. The input port is closed and the pressure of the output port is the same as the pressure of the tank port T.

Control Mode

When push rod (6) is pushed, the balance spring (18) begins to compress, and spring force is conveyed to the spool (12). Ports P and T are then connected together and the pilot pressure is conveyed to the area. Output pressure works on the bottom of the spool (12), thrusting the spool upward until it is balanced with the power of the balance spring (18). The secondary pressure (output pressure), therefore, changes in proportion to the compression force of the balance spring.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

9. Assemble the spring seat (218) onto the bushing.

IMPORTANT
Replace spring seat to its original location in housing.



Figure 43

10. Insert damper spring (336) into the housing.

IMPORTANT
Replace damper spring to its original location in housing.



Figure 44

11. Insert damper spring (337) into the housing.

IMPORTANT
Replace damper spring to its original location in housing. **Be careful so that the two springs do not become tangled in the housing.**



Figure 45

12. Assemble piston (224).

IMPORTANT
Replace piston to its original location in housing.



Figure 46

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ENGINE PREHEATING SYSTEM

An air heater (7) device is installed in the intake manifold of the engine.

When the starter switch (5) is turned to the ‘Preheat’ position, the current flows from the battery (1) → fusible link (3) → ‘B’ terminal of starter switch (5) → ‘R1’ terminal of starter switch → ‘C’ terminal of preheat relay (6) → ground and the contact points of the preheat relay are closed.

When the contact points of the preheat relay are closed, the heating coils of the air heating device is heated by current flowing from the battery (1) → battery relay (2) → circuit breaker (4) → preheat relay (6) → air heater (7) → ground.

The preheat time is approximately 19 seconds. A built-in timer in the instrument panel will activate an indicator light approximately 19 seconds after the preheat process has been selected.

Even after the starter switch (5) has been moved to the start position the current will continue to flow through the ‘R2’ terminal of the starter switch (5) to the coil of the preheat relay (6) without disruption of the preheat process.

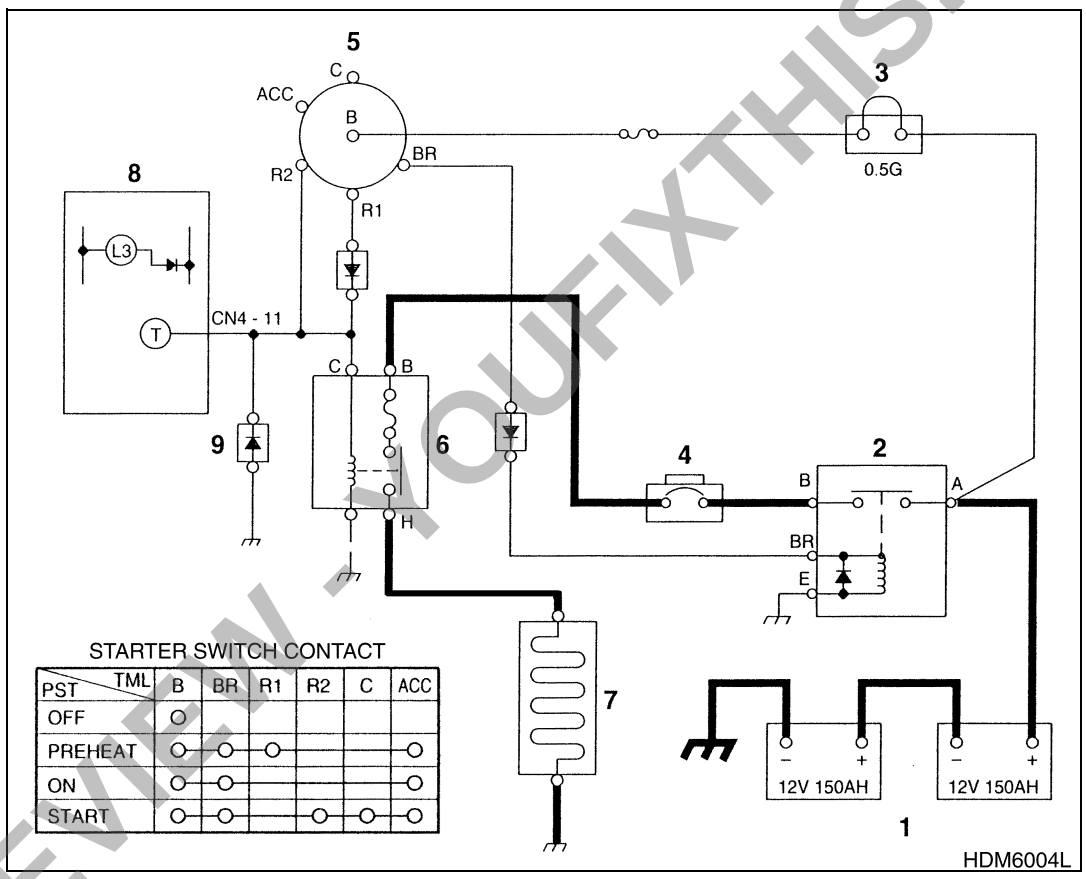


Figure 4 ENGINE PREHEAT CIRCUIT

Reference Number	Description
1	Battery
2	Battery Relay
3	Fusible Link
4	Circuit Breaker
5	Starter Switch

Reference Number	Description
6	Preheat Relay
7	Air Heater
8	Instrument Panel
9	Diode

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

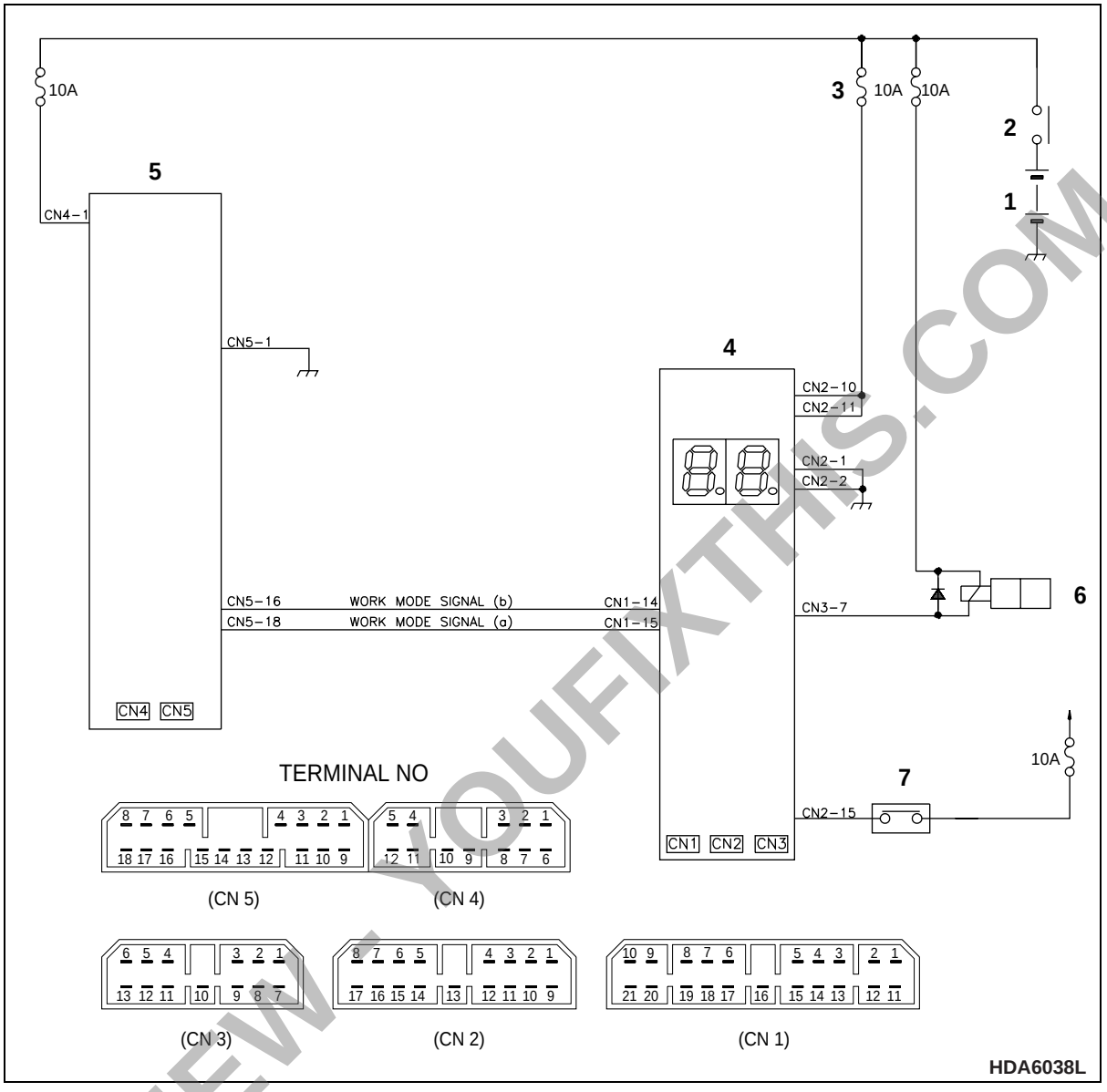


Figure 35

Reference Number	Description
1	Battery
2	Battery Relay
3	Fuse
4	EPOS-V Controller

Reference Number	Description
5	Instrument Panel
6	Solenoid Valve (For 2-stage Relief)
7	Power Boost Switch (Top Of Right Work Lever)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 24 of 612 pages

The full manual includes:

- All 612 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Daewoo Solar 400LC-V Shop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual