

Solar 010

Shop Manual

2022-7153E

Serial Number 0001 and Up

October 1997

Daewoo reserves the right to improve our products in a continuing process to provide the best possible product to the market place. These improvements can be implemented at any time with no obligation to change materials on previously sold products. It is recommended that consumers periodically contact their distributors for recent documentation on purchased equipment.

This documentation may include attachments and optional equipment that is not available in your machine's package. Please call your distributor for additional items that you may require.

Illustrations used throughout this manual are used only as a representation of the actual piece of equipment, and may vary from the actual item.

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12. Keep “Pinch Point” Areas Clear - Use Caution in Reverse & Swing

Use a signal person in high traffic areas and whenever the operator’s view is not clear, such as when traveling in reverse. Make sure that no one comes inside the swing radius of the machine.

Never allow anyone to ride on any part of the machine or attachment, including any part of the turntable or operator’s cab.

13. Travel Precautions

Attachment control levers should not be operated while traveling.

Never travel over obstacles or slopes that will cause the machine to tilt severely. Travel around any slope or obstacle that causes 10 degrees tilt, or more.

14. Operate Carefully on Snow and Ice and Very Cold Temperatures

In icy cold weather avoid sudden travel movements and stay away from even very slight slopes. The machine could skid off to one side very easily.

Snow accumulation could hide or obscure potential hazards. Use care while operating or while using the machine to clear snow.

Warming up the engine for a short period may be necessary, to avoid operating with sluggish or reduced working capacity. The jolting shocks and impact loads caused by bumping or bottoming the boom or attachment are more likely to cause severe stress in very cold temperatures. Reducing work cycle rate and work load may be necessary.

15. Parking the Machine

Avoid making sudden stops, or parking the machine wherever it happens to be at the end of the work day. Plan ahead so that the excavator will be on a firm, level surface away from traffic and away from high walls, cliff edges and any area of potential water accumulation or runoff. If parking on inclines is unavoidable, block the crawler tracks to prevent movement. Lower the bucket or other working attachment completely to the ground, or to an overnight support saddle. There should be no possibility of unintended or accidental movement.

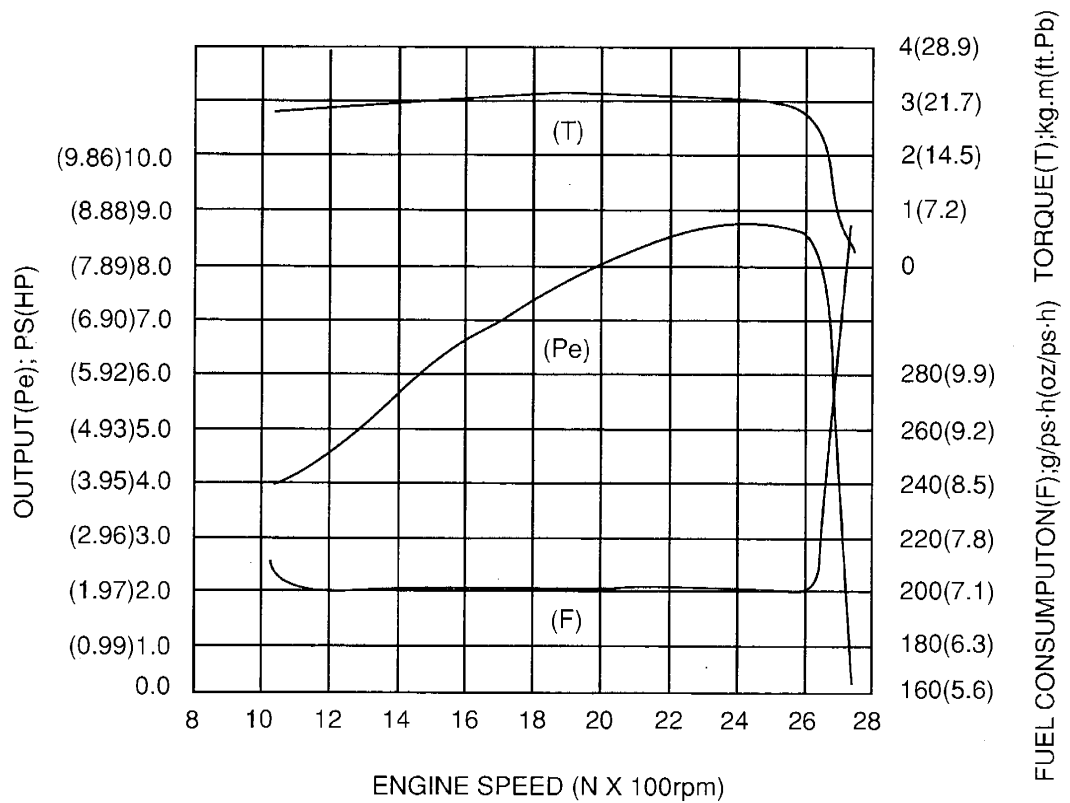
16. Shutdown Control Functions

After the machine has been lowered to the overnight storage position and all switches and operating controls are in the OFF position, the control stand lock lever must be engaged. Release the left console to disable all pilot circuit control functions.

Insert the swing lock pin and engage all brakes and lock-down security equipment that may have been installed on the machine.

2.5 ENGINE PERFORMANCE CURVE

	TEST CONDITION
Barometric Pressure	KS R1004
Cooling Fan & Type	760 mmHg
Alternator	12V, 9A
Air Cleaner	0
Muppler	X



Performance Standard	KS R1004
Power(Rated)	9.5PS(9.37 HP) / 2,550 rpm
MAX. Torque	3.06 kg•m(22.13 ft lb) / 1,900 rpm
Fuel Consumption(Rated)	205 g/ps•h(7.23 oz/ps•h)

5. CONTROL VALVE

- Control Valve Rebuild

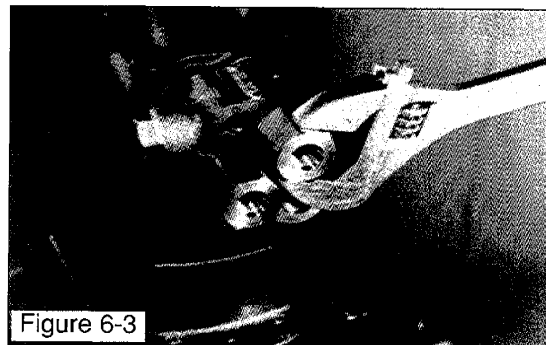
NOTE : Repair control valve in a clean workplace to avoid damage to precision parts which can be damaged by extremely small amounts of dust or other foreign material. Always use new O-rings.

5.1 TOOLS

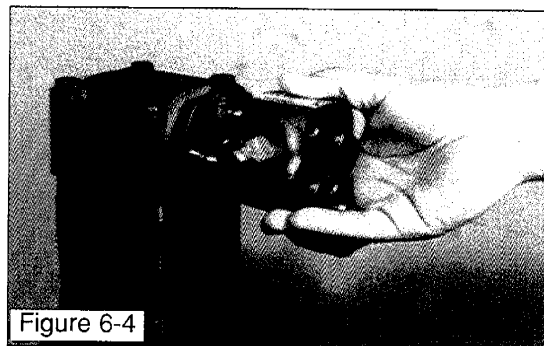
ITEM	DIMENSION	Q'TY	NOTE
Wrench	3mm	1	M6
	4mm	1	M5
	5mm		PT 1/8
	6mm		PF 1/4
	8mm	1	PF 3/8
Box Wrench	8mm	1	
	10mm	1	M6 Three types of Hex. Nuts
	13mm		M8 Nuts
	21mm	1	Accessory Valve
Drive (+)		1	M5
Rod	4.5 X 100	1	Overhauling & Assembling of Spring Center
Torgue Wrench	2 ~ 10 kg•m (14-73 ft lb)	1	Assembling accessory Valve Assembling M8 Nuts
	2 kg•m(14 ft lb) or less	1	Assembling Return Spring Holder

6.2 BRAKE VALVE REMOVAL

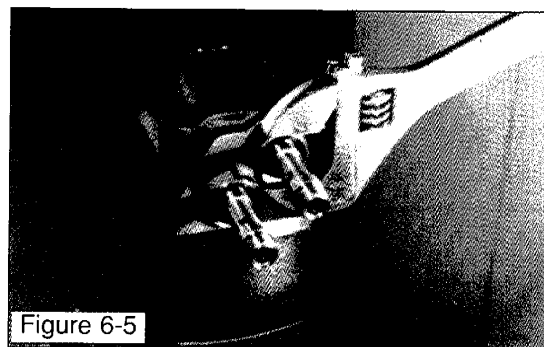
1. Clean outside of brake valve and disconnect lines.
2. Remove bushing. See Figure 6-3.



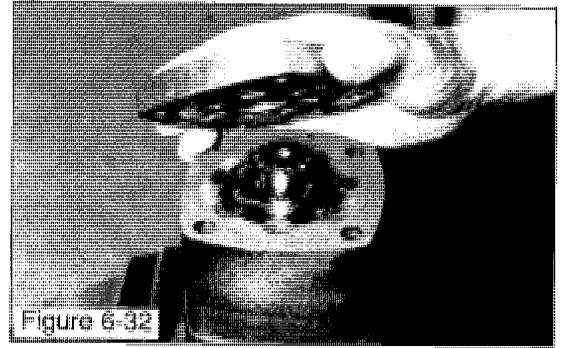
3. Separate brake valve body from connector. See Figure 6-4.



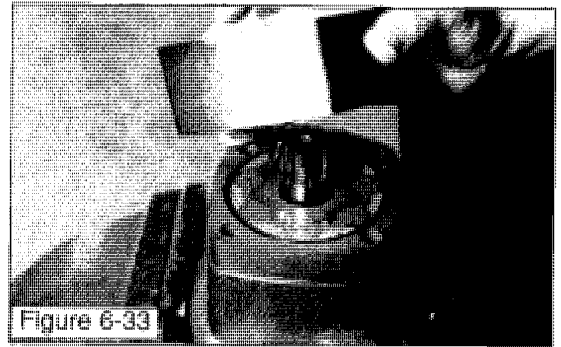
4. Remove connector from motor valve housing. See Figure 6-5.



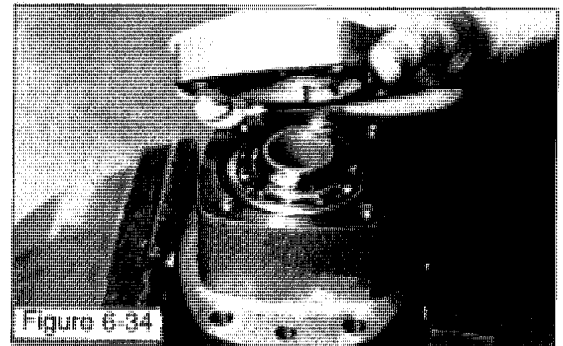
4. Remove valve plate and valve drive. See Figure 6-32.



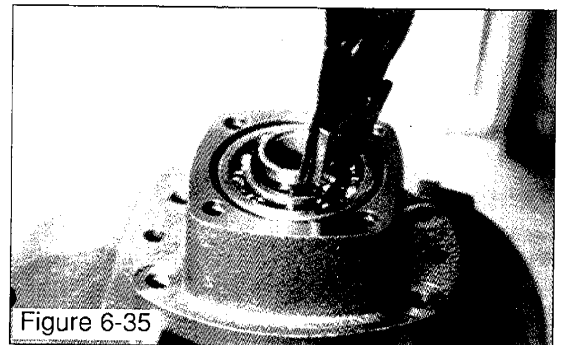
5. Remove block and drive. See Figure 6-33



6. Remove wear plat. See Figure 6-34.



7. Remove snap ring. See Figure 6-35.



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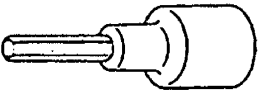

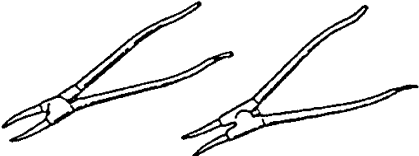
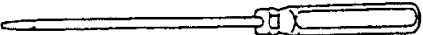
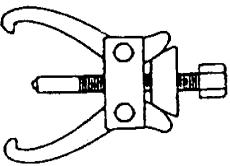
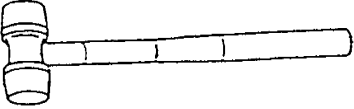
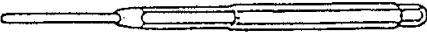


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7. TRAVEL MOTOR

7.1 TOOLS

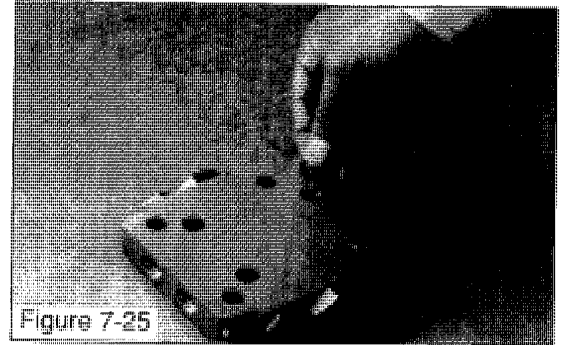
TOOL NAME	TOOL	REMARKS
Torque Wrench		5.4kg•m or more
Socket Wrench		4.5mm
Socket		9/16", 19mm, 1"
Snap-ring pliers		Hole 110 dia Axle 80 dia
Driver		Length 100 ~ 150mm
Puller		Length 300mm
Plastic hammer		0.5kg or equivalent
Punch		

7.4 END COVER ASSEMBLY OVERHAUL

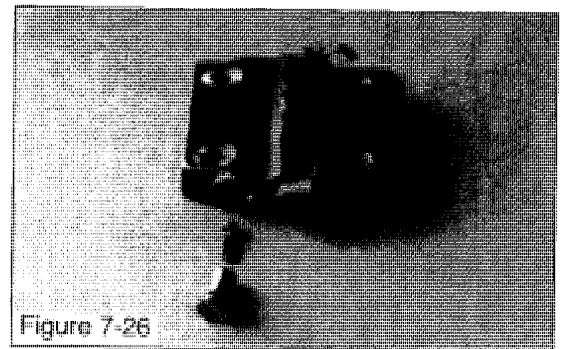
⚠ IMPORTANT : Use vice with protective, soft jaws to protect machined surfaces. Be careful not to over tighten. Too small a clearance between the housing and spool could result in a deformed housing.

7.4.1 Disassembly

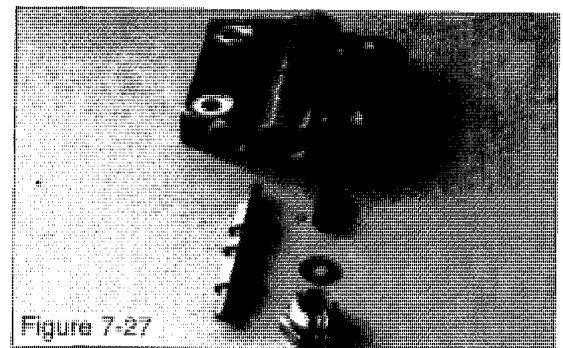
1. Remove O-rings. See Figure 7-25.

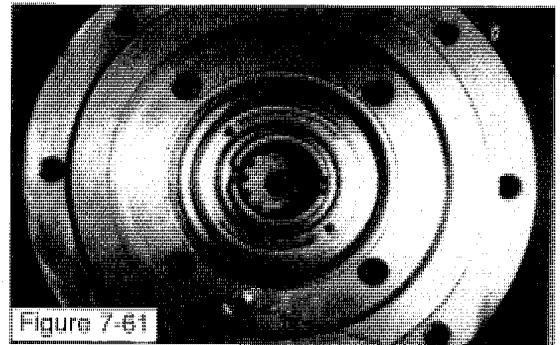
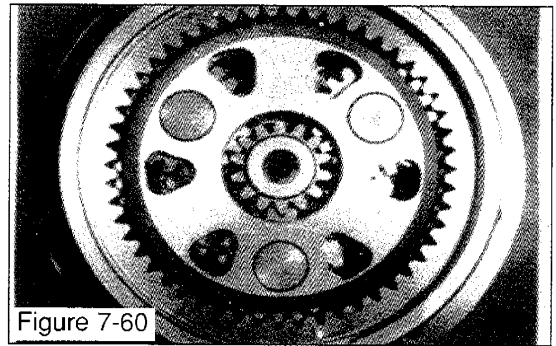


2. Remove plug (34) and remove spring (36) and poppet (33). Remove O-ring (35) from plug (34). See Figure 7-26.

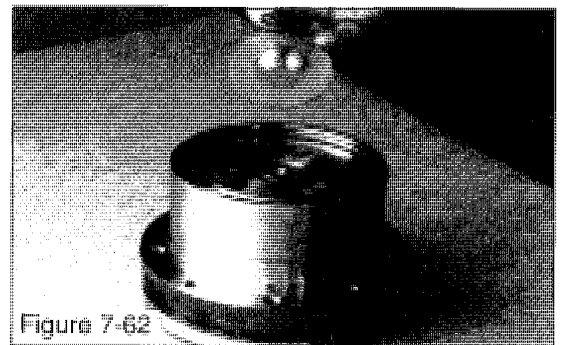


3. Remove plug (29) and remove spring (32), washer (31) and spool assembly (28). Remove O-ring (32) from plug (29). See Figure 7-27.

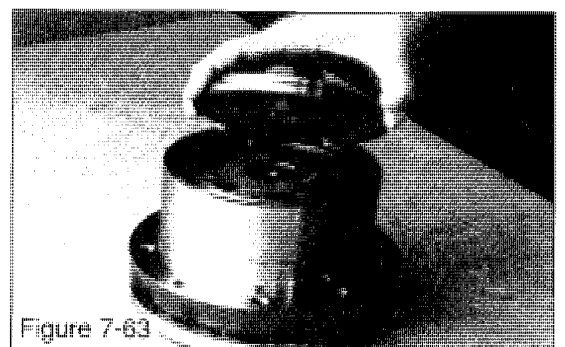




12. Install spacers (16 & 17). See Figure 7-62.



13. Install O-ring (23) and cover (4). See Figure 7-63.



8.3.3 Adjusting Plunger Top Clearance

1. Position flange of pump, with roller on cam base cycle, so that dimension is $69 \pm 0.05\text{mm}$ (2.7146 - 2.7185 in): remove delivery valve holder and delivery valve, and set plunger to top dead center by turning the camshaft.
2. Set up measuring jig and install dial gauge. See Figures 8-9 & 8-10.

Plunger Shim Thickness	0.1 mm (0.004 in)
	0.2 mm (0.006 in)
	0.3 mm (0.012 in)

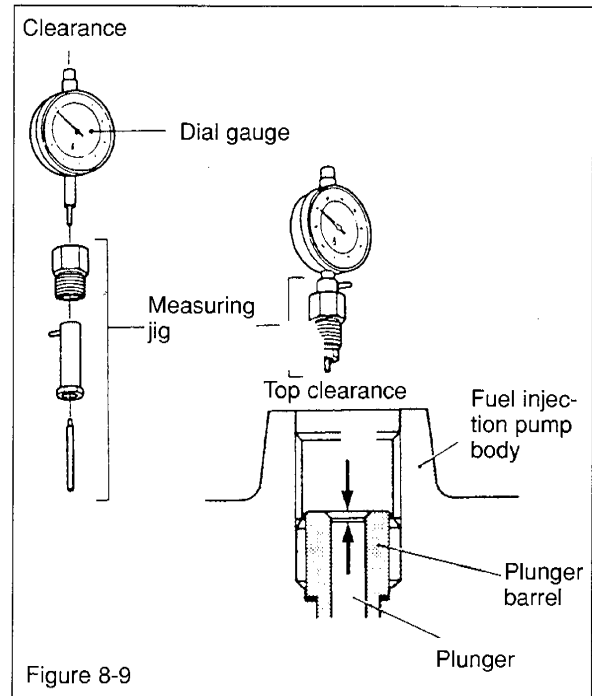


Figure 8-9

3. Turn camshaft to set plunger at top dead center and read gauge. Clearance should be 7 mm (0.2755 in).
4. If clearance is too large, remove plunger guide and install shims between lower retainer of plunger spring and plunger guide. Shim sizes are shown in table below.
5. Recheck adjustment and reinstall delivery valve. Torque delivery valve holder to 4.0-4.5 kg·m (29-32.6 ft lb).

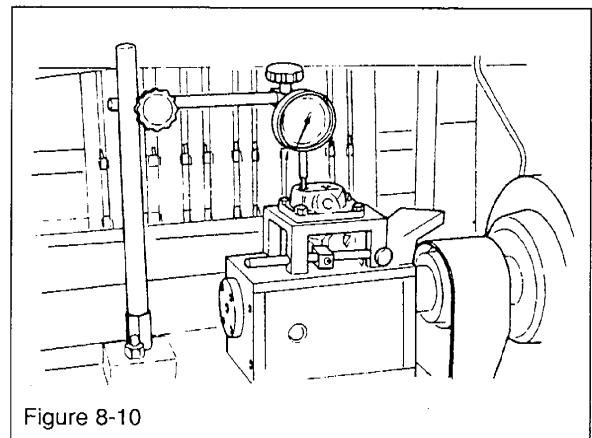


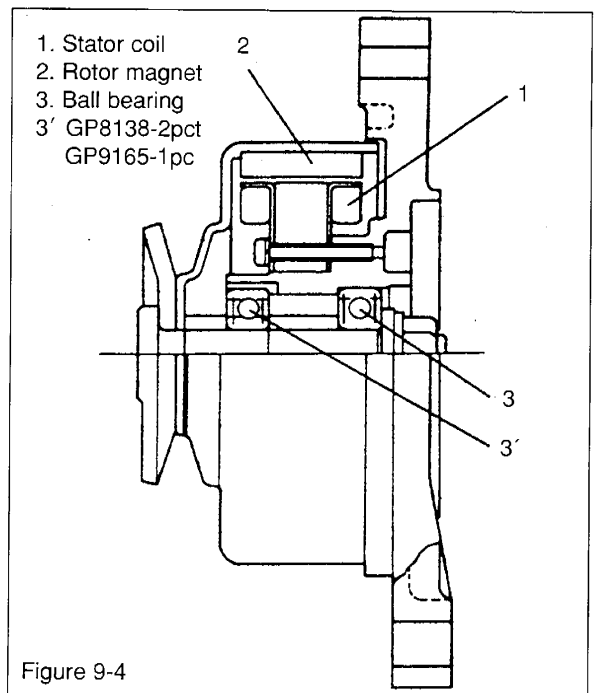
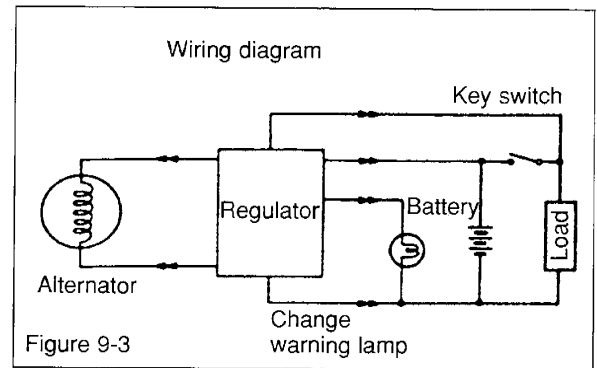
Figure 8-10

9.3 CHARGING SYSTEM

9.3.1 GENERATOR

The generator is a magneto-generator which includes a starter coil, rotor magnet, drive shaft / pulley and bearings. See Figures 9-3 & 9-4.

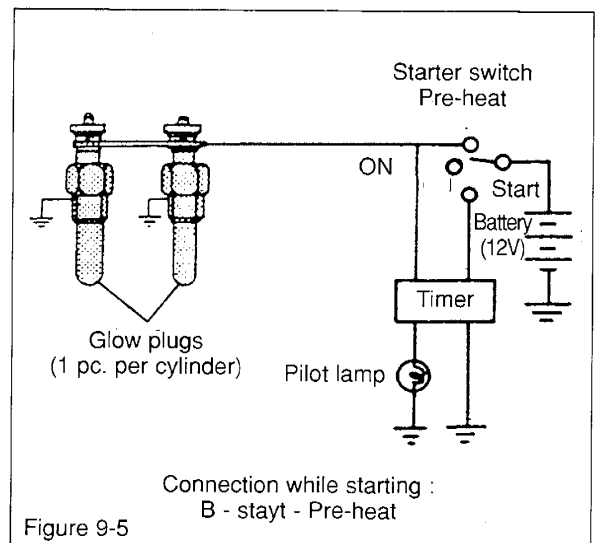
Since the magneto-generator is continually excited by the magneto, the regulator must regulate a relatively large amount of current.



9.4 GLOW PLUG SYSTEM

NOTE : *The glow plug system should be used only when the weather is extremely cold.*

The glow plug system includes glow plugs, and a switch, timer, and pilot light. When the key switch is turned to HEAT, battery current flows to each glow plug, which are located in the combustion chambers. The pilot light is lit while the glow plugs are heating. The timer is set so that the pilot light goes off about 15 seconds after the system is turned on. When the pilot light goes off, the key switch should be turned to OFF. See Figure 9-5.

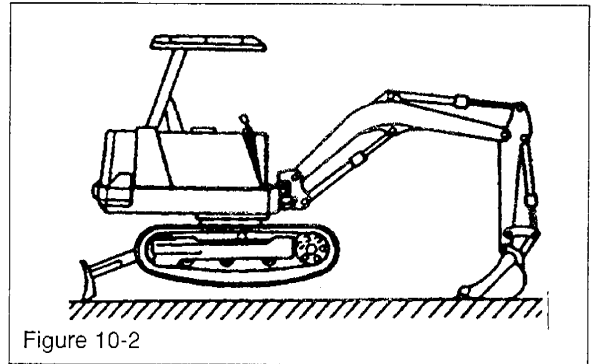


10.5 TRACK MAINTENANCE AND REPLACEMENT

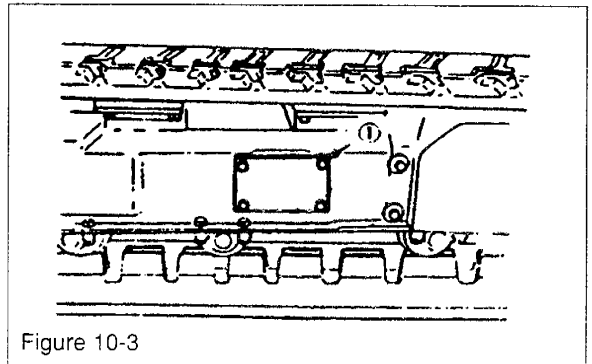
1. Check tension frequently to avoid separation of track from track frame.
2. Avoid traveling over sharp objects.
3. Avoid sharp changes in direction which damage the track.
4. Keep fuel and lubricants from contact with track and wipe up any spills immediately.
5. Replace track when rubber lug height is 2~5mm (0.078~0.197 in) from the track ground contact surface.

10.6 ADJUSTING TRACK TENSION

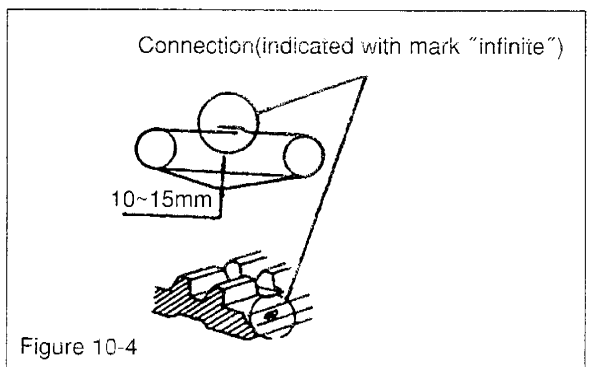
1. Use front attachment and dozer blade to lift excavator off ground.
See Figure 10-2
2. Measure deflection in center of track. If deflection is more than 25mm (1 in), adjust tension.



3. Open track frame side cover (1, Figure 10-3).



4. Adjust tension, with infinity, "connection" mark centered, using a grease gun, so that deflection is 10~15mm (4/10 to 6/10 in).
See Figure 10-4.



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