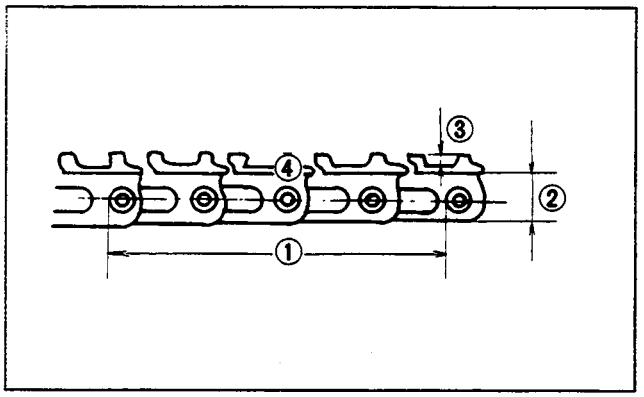
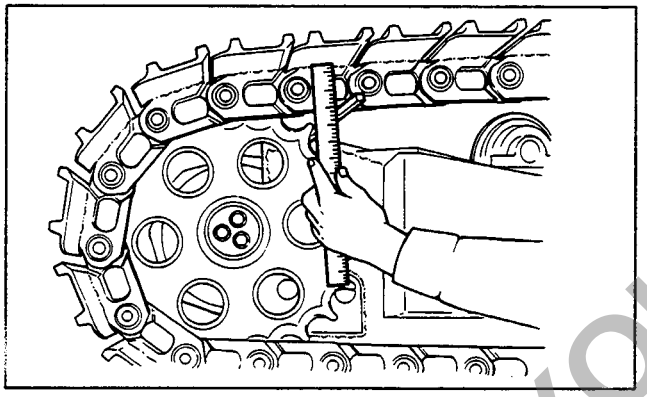
INSPECTION (CK36)

Chain Stretch



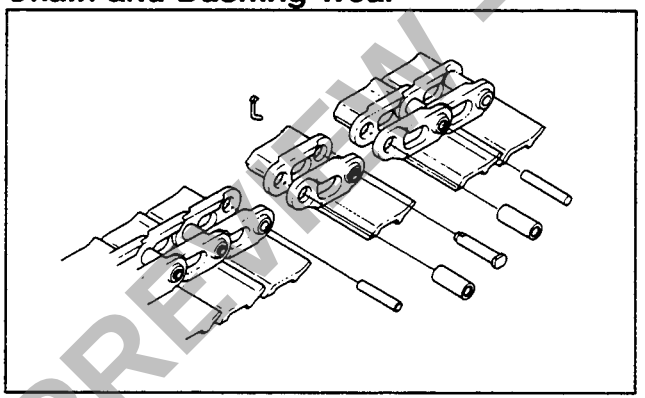
Measure the total length (1) between four chain link pins. The maximum should not exceed 416 mm.

Chain Link Wear



Measure the height of the chain link. The maximum height should not exceed 65.5 mm.

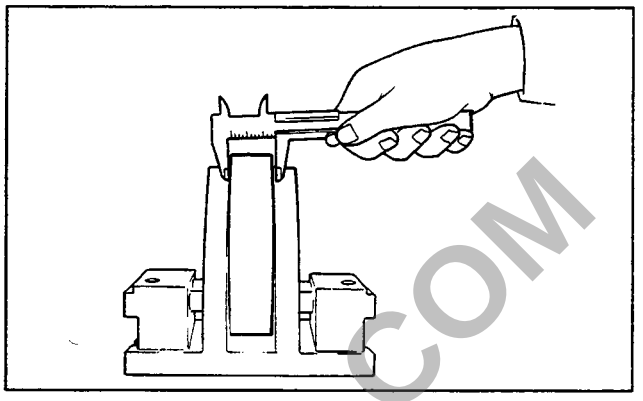
Chain and Bushing Wear



Disassemble the link pin and bushing. Replace the link pin or bushing if the wear tolerances are exceeded.

Link Pin Wear O.D.....17.5 mm
Bushing Wear O.D.....30.7 mm
Bushing Wear I.D.....21 mm

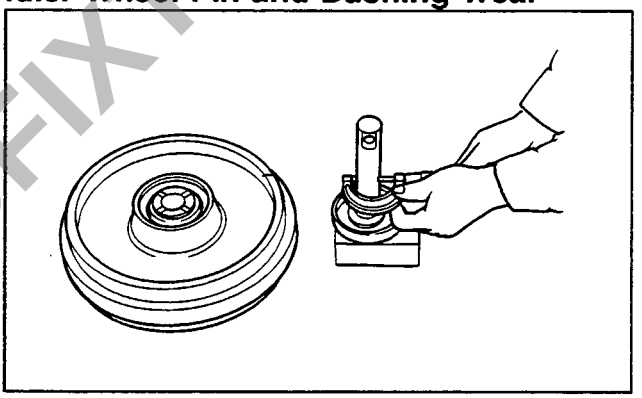
Idler Wheel Outer Surface Wear



Measure the idler width and guide width. Replace the idler if the wear tolerances are exceeded.

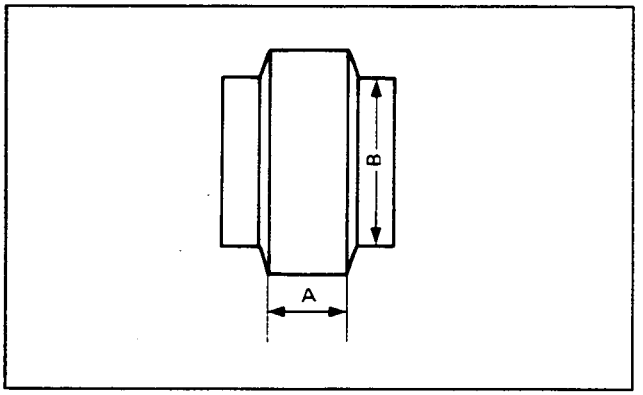
Guide Width.....72 mm
Idler Width.....24 mm
Idler Diameter.....297 mm

Idler Wheel Pin and Bushing Wear



Use a micrometer to calculate the difference between the outside diameter of the idler wheel pin and the inside diameter of the idler wheel bushing. If the clearance exceeds 0.5 mm replace the pin and bushing.

Bottom Roller Outer Surface Wear



Measure the bottom roller guide width (A) and diameter (B). Replace the bottom roller if the wear tolerances are exceeded.

A. Guide Width.....28 mm
B. Outer Diameter.....91 mm

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Section

2002

ENGINE REMOVAL AND INSTALLATION

2002

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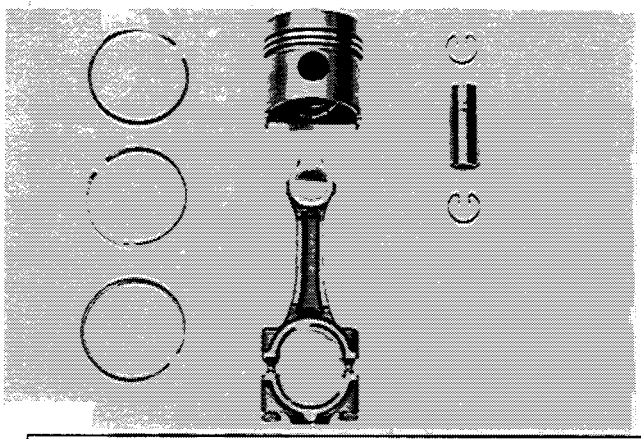
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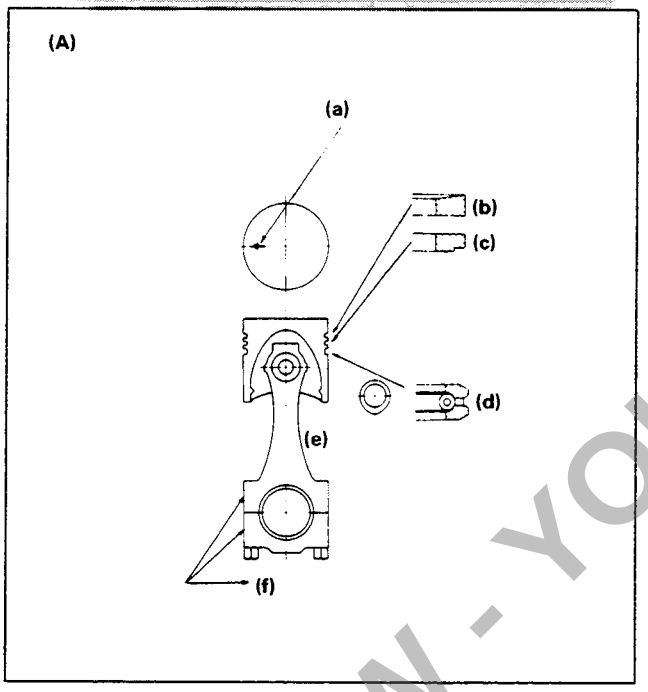
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STEP 4



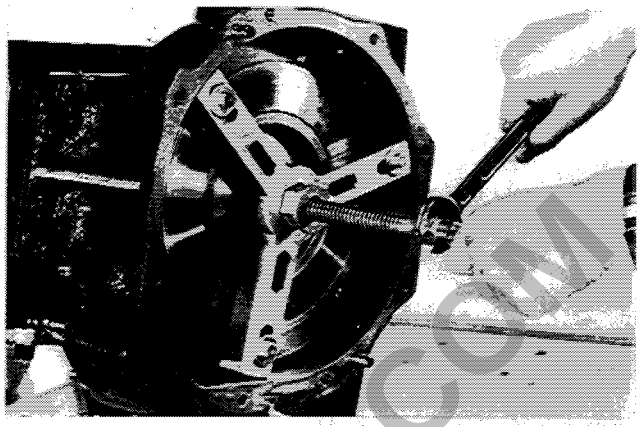


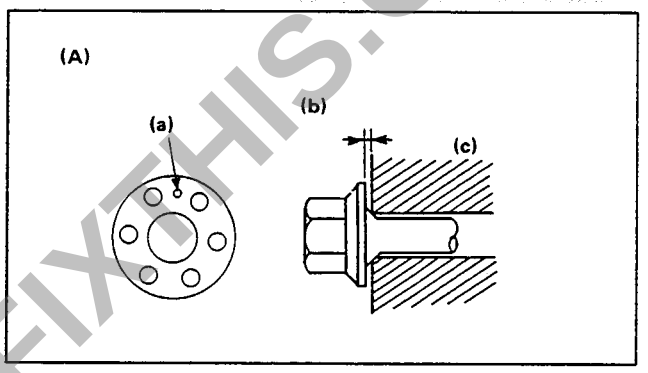
(A) Reassembling of piston, piston rings and connecting rod
(a) Mark before disassembling. When installing a piston, face this mark toward the alignment marks.
(b) Plated keystone ring
(c) Discontinuous undercut ring
(d) Coil expander ring
(e) Camshaft
(f) Alignment marks. When installing a connecting rod face the alignment marks toward the injection pump.

Remove the piston rings, snap rings, piston pin and piston from the connecting rod.

NOTE : *For Assembly, heat the pistons in hot water and carefully tap the piston pin into place.*
Install the coil expander in the oil ring with the expander joint 180° away from the ring gap. Install the piston rings so that there are gaps every 90° with no gap facing the piston pin and with the manufacturer's name or "TOP" towards the piston head.

STEP 5





(A) Reassembling of flywheel washer
(a) Mark
Install the flywheel washer so that the mark is opposite the flywheel surface.
(b) Clearance
(c) Flywheel

Remove the flywheel bolts, and using a suitable extractor remove the flywheel.

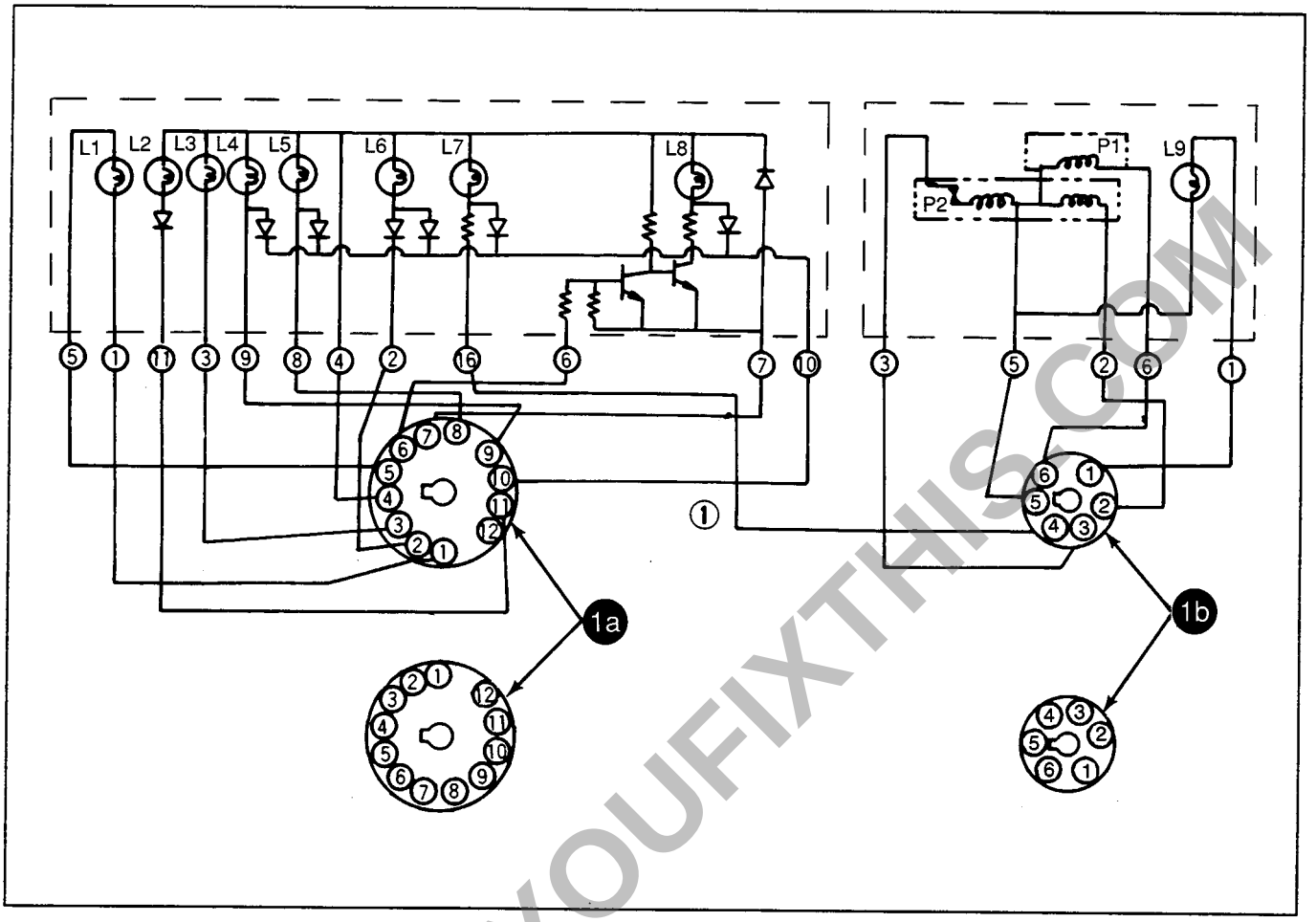
NOTE : *For Assembly, tighten the flywheel bolts to a torque of 98.1 to 107.9 Nm (72.3 to 79.6 lb.ft.).*

NOTE : *If flange bolts are to be used on a conventional flywheel, the flywheel must be reworked (chamfer C0.9 to C1.3) to avoid the clearance (B).*
Flange bolt without washer after Serial No. 67309.

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INSTRUMENT PANEL SCHEMATIC



1a. Instrument panel connector
1b. Instrument panel connector

INDICATOR/WARNING LAMP

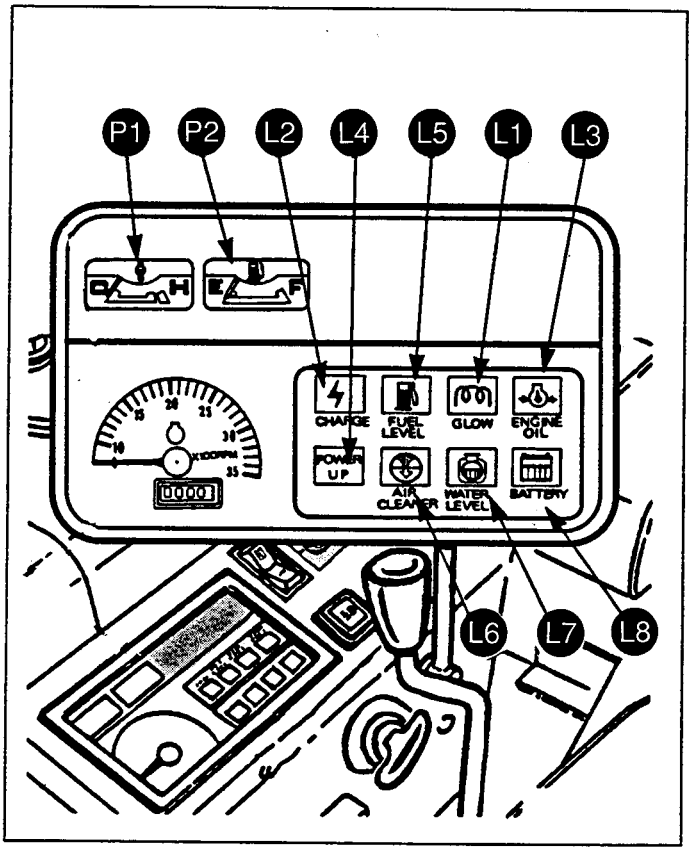
1. Glow plug pilot lamp
L2. Battery charge lamp
L3. Engine oil pressure lamp
L4. Power up lamp
L5. Fuel warning indicator lamp
L6. Air filter restriction lamp
L7. Coolant level warning light
L8. Battery electrolyte warning lamp

INSTRUMENT PANEL LIGHTING

L9. Indicator lighting

INDICATORS

P1. Engine oil temperature indicator
P2. Fuel level indicator



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STEEL TRACK

Removal and Installation

STEP 1

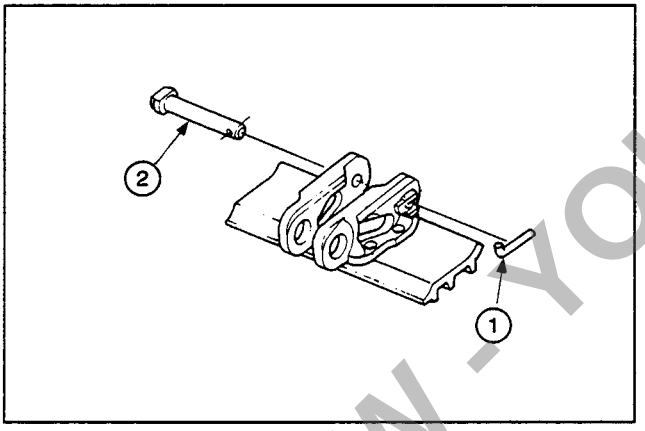
Park the machine on hard, level ground. Make sure the master pin is level with the idler wheel. Lower the attachment to the ground, release the pressure from the hydraulic circuits and stop the engine.

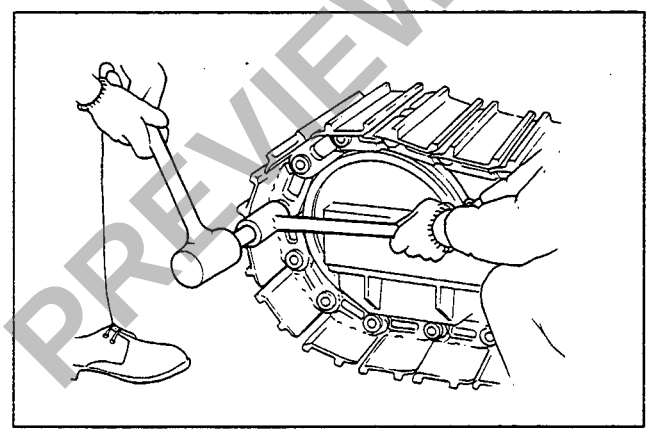
STEP 2

Place a wooden block between the track and side frame. Release the track tension by loosening the grease fitting on the tension cylinder 4 turns.

> ⚠ *DO NOT remove the grease fitting completely. The grease inside the tension cylinder is under pressure.*

STEP 3

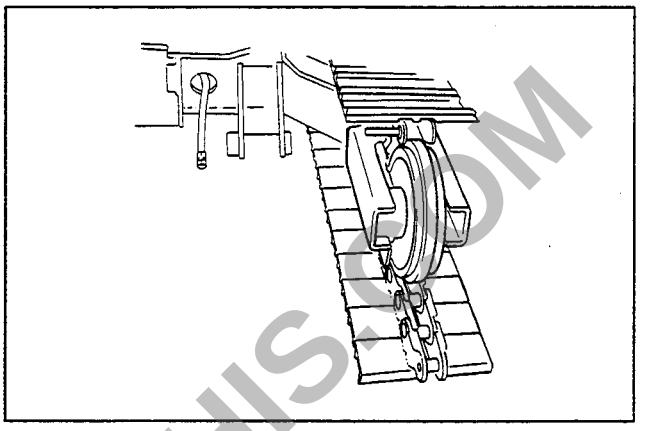


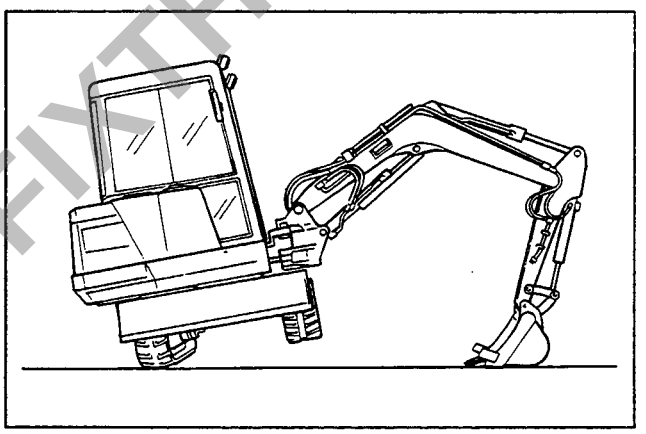


Remove the set pin (1) and master pin (2) as shown.

NOTE : *For Installation, correctly align the master pin (2), install through the track link (3) and install the set pin (1); bend the end of the set pin (1) for security.*

STEP 4





Start the engine and unwind the track by slowly reversing the machine. Use the attachment as shown to raise the machine and remove the track.

NOTE : *Make a note of the track rotation for correct installation.*

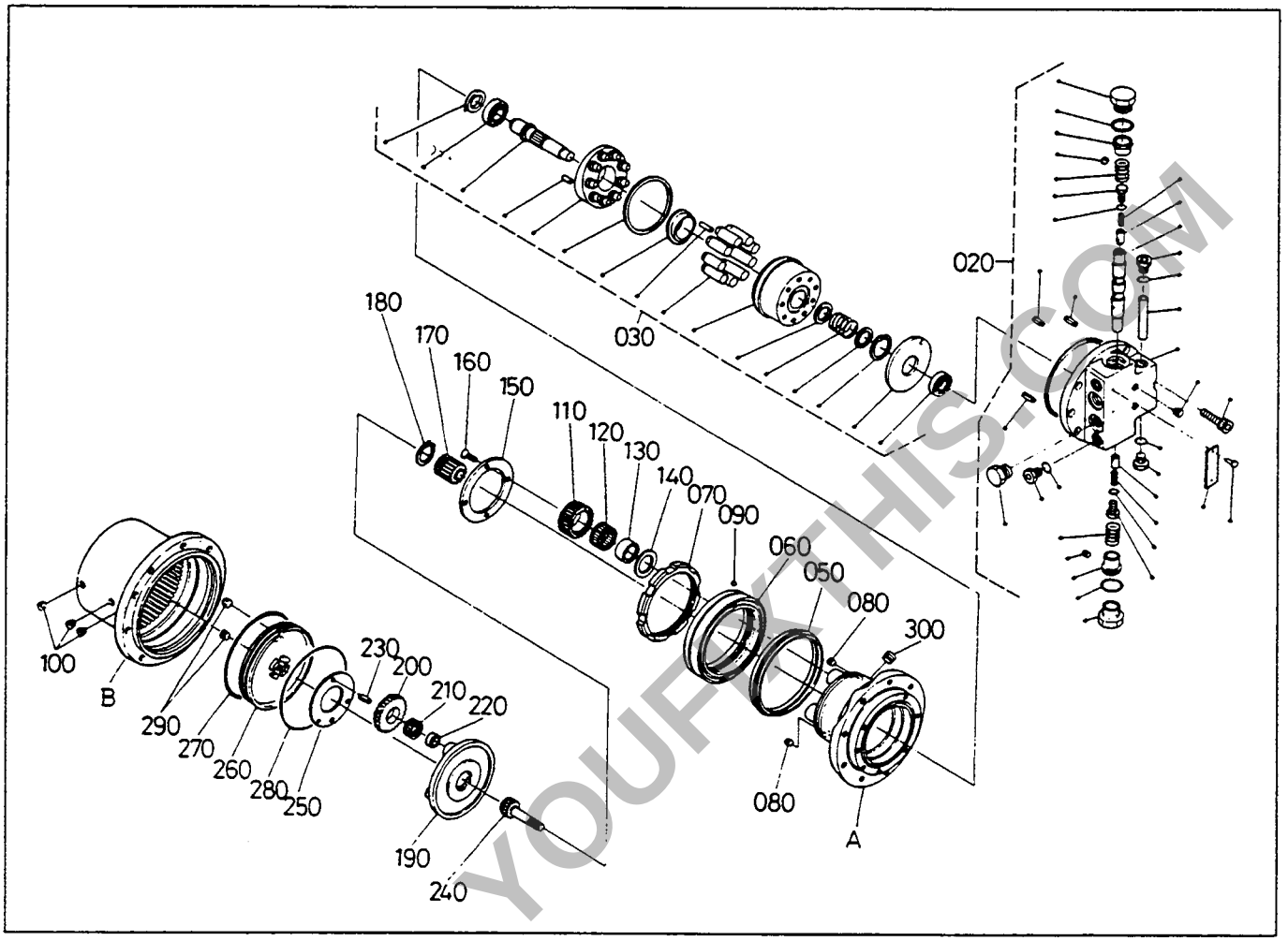
NOTE : *For Installation, place the track underneath the machine in line with the drive sprocket, bottom rollers and idler wheel, lower the machine. Use the drive sprocket to wind on the track by driving the machine slowly forward. Join the ends of the chain, install the master pin and set pin.*

NOTE : *Refer to Page 8, to tension the track.*

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Assembly



010. Motor
020. Regulator assembly
030. Rotor assembly
050. Seal
060. Bearing
070. Nut
080. Plug
090. Ball
100. Plug
110. Gear
120. Bearing
130. Bushing
140. Washer
150. Plate
160. Screw
170. Gear
180. Snap ring
190. Support
200. Gear
210. Bearing
220. Bearing
230. Roll pin
240. Pinion
250. Plate
260. Cover plate
270. O-ring
280. Ring
290. Plug
300. Plug

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CK36 HYDRAULIC SCHEMATIC 25

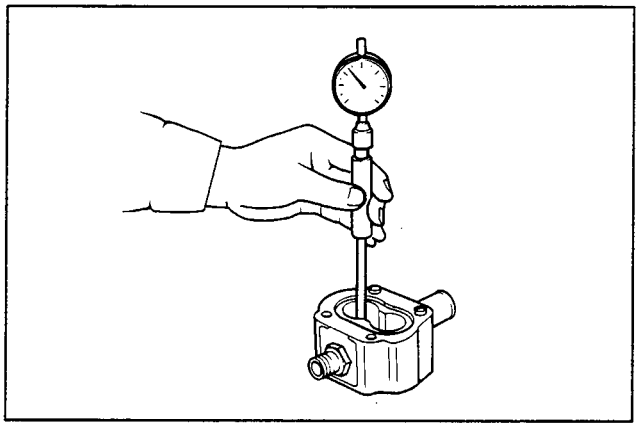
CK50 HYDRAULIC SCHEMATIC 27

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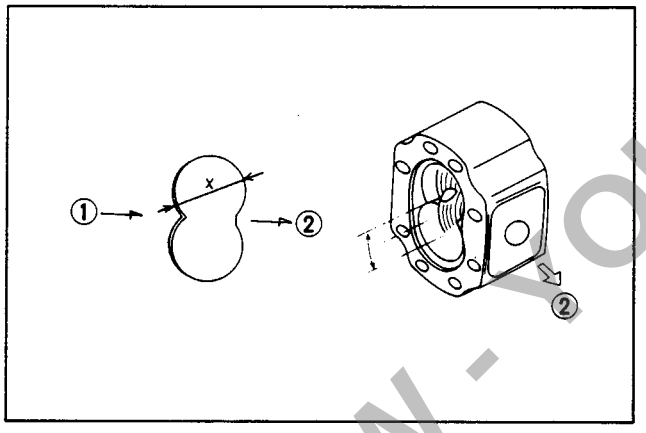
Inspection

STEP 1



Measure the gear contact area and the bushing contact area of the pump body. Calculate the wear, this must be between 0.05 and 0.15 mm. If the measurement is more than 0.15 mm, replace the pump body.

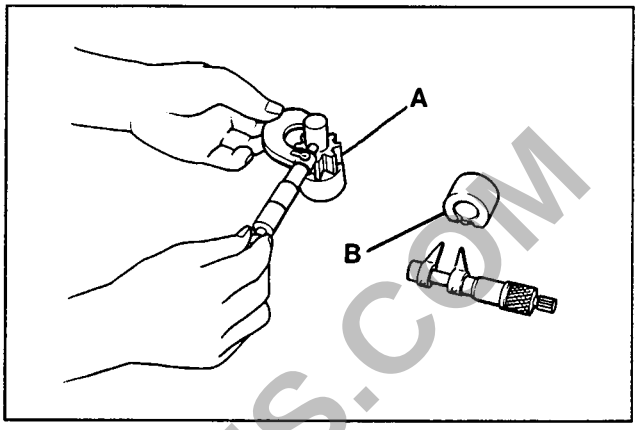
STEP 2



1. Suction side 2. Delivery side

Check for wear or damage on the pump body and replace if necessary.

STEP 3



Measure the gear shaft (A) and bushing ID (B). Calculate the clearance (B-A) between the gear shaft and bushing. The clearance must be less than 0.1 mm. If the clearance is more than 0.2 mm, replace the pump body.

STEP 4

Refer to Section 8001 for Flow Testing and Troubleshooting.

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SWING AND OFFSET CYLINDER FLOW SELECTOR VALVE

Removal and Installation

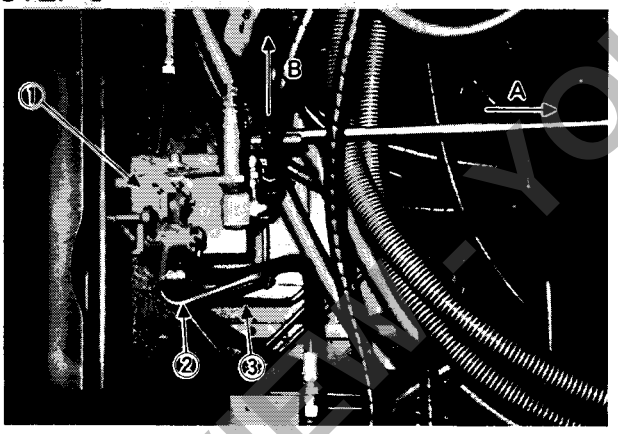
STEP 1

Park the machine on hard level ground. Lower the attachments to the ground and release the pressure from the hydraulic circuits.

STEP 2

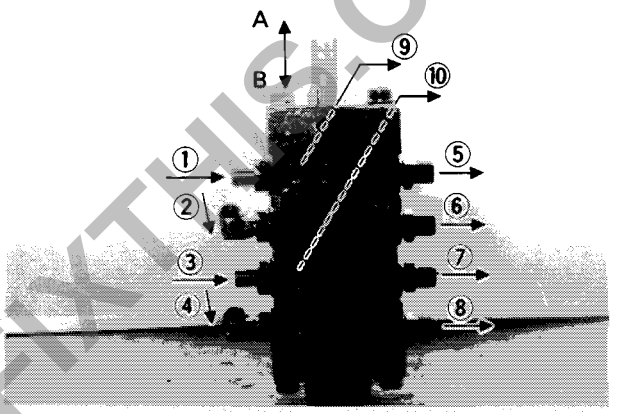
Remove the operators seat and panels surrounding the selector valve.

STEP 3



Disconnect and cap the hydraulic hoses (2 and 3), disconnect the selector valve (1) from the foot pedal and the manipulator lever. Remove the retaining bolts and remove the selector valve (1).

Hose Connections



1. FROM PORT 4 OF THE LEFT HAND CONTROL VALVE
2. FROM PORT 1 OF THE LEFT MANIPULATOR VALVE.
3. FROM PORT 2 OF THE LEFT MANIPULATOR VALVE.
4. FROM PORT 3 OF THE LEFT MANIPULATOR VALVE.
5. TO SWING CONTROL VALVE (R).
6. TO SWIVEL CONTROL VALVE (R).
7. TO SWING CONTROL VALVE (L).
8. TO SWIVEL CONTROL VALVE (L).
9. TO ARM CONTROL VALVE (RETURN).
10. TO ARM CONTROL VALVE CROWD.

A. SWIVEL
B. SWING

NOTE: *For Installation, follow the same procedure in reverse order.*

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8081

Section

8081

ATTACHMENT CYLINDERS

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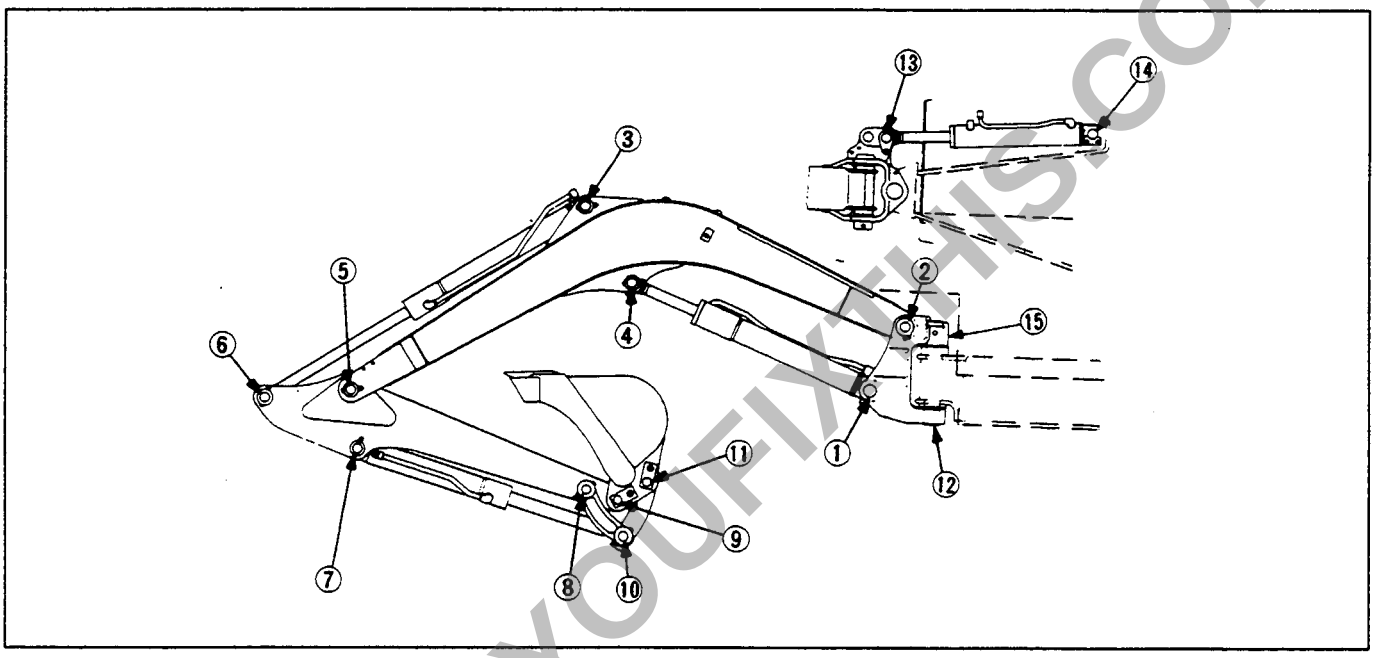
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BUCKET, DIPPER, OFFSET SUPPORT, BOOM AND LEVELLING BLADE
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SPECIFICATIONS

Attachment Bushing and Pin Dimensions



Bushings (Reference Value)	Inner Diameter (mm)		Length (mm)	
	CK36	CK50	CK36	CK50
1	45	50	29	59
2	50	55	60	59.5
3	40	50	49.5	59.5
4	45	50	49.5	69.5
5	40	55	40	45
6	40	50	49.5	59.5
7	40	50	49.5	59.5
8	40	45	40	45
9	40	45	40	45
10	40	50	32	38
11	40	50	40	50
12	60	75	50	60
13	40	55	49.5	59.5
14	40	55	49.5	59.5
15	60	75	60	75

NOTE : *Wear limit is 1 mm more than the reference value.*

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