DL Series Dynalift Service Manual

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SAFETY

The above Safety Alert Symbol means **ATTENTION! ALWAYS BE ALERT! YOUR SAFETY IS INVOLVED!** When you see this symbol, carefully read the message that follows and be alert to the possibility of injury or death.

The Gehl Company always takes safety into consideration when designing its products and designs guards for exposed moving parts whenever it is possible and practical to do so. However, even with todays state-of-the-art technology, it must be recognized that not all machine hazards can be guarded or shielded against in order to assure machine functionality for a specific purpose.

Decals are placed on the machine to warn of additional hazards and must be read and strictly followed.

The Gehl Company cannot anticipate every situation that may constitute a hazard. Therefore, the following safety rules and reminders are not all inclusive and do not replace federal, state or local regulations, insurance needs or other safety code requirements.

MANDATORY SAFETY SHUTDOWN PROCEDURE

Before cleaning, lubricating or performing service on this equipment:

1. Bring the machine to a full parking stop on level surface. (If parking on a slope or hillside cannot be avoided, park across the slope and block the tires.)
2. Fully retract the boom and lower the attachment to the ground.
3. Place controls in **NEUTRAL** and set the park brake.
4. Idle the engine for gradual cooling.
5. Turn the starter key switch to OFF position and remove key (take key with you for security reasons).

ONLY when you have taken these precautions can you be sure its safe to proceed. Failure to follow the above procedures could lead to serious personal injury or death.

SAFETY RULES AND REMINDERS

- **DO NOT** start or operate the machine until you have read and understood the Operator's Manual. You must become familiar with all operating controls, instruments and procedures before attempting operation or repair.
- If a service problem requires troubleshooting the machine under actual job site working conditions, unless you are totally familiar with the machine controls and operating procedures, have an experienced operator assist you.
- Always perform the Mandatory Safety Shutdown Procedure and relieve hydraulic circuit pressure before loosening or removing any hydraulic fittings or lines.
- If hydraulic cylinder repair is required, **NEVER** use pneumatic or hydraulic pressure to aid in cylinder disassembly.
- Always disconnect the battery before working on the electrical system.

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FLUID CAPACITIES AND TYPES

All fluid capacities listed are a guide to the quantities required, always use dipsticks or level plugs to ensure that the units are filled to the correct level.

Engine (all DL6, DL8, DL10, and DL12 thru s/n 50513)

Crankcase Capacity (with filter)

- 4045D (John Deere, DL6 only) . . . . . 8.5 qts. (8 L)
- 4045T (John Deere) . . . . . 14.3 qts. (13.5 L)
- 1004-4T (Perkins) . . . . . 7.4 qts. (7.0 L)
- Oil Type . . . . . Multi-Viscosity Engine Oil (See Engine Manual)
  API Service Classification: CH-4/CI-4
- Cooling System Capacity . . . . . 20.0 qts. (18.9 L)
- Coolant Type . . . . . 50/50 mixture of ethylene glycol and water

Engine (DL7, DL9, DL11 and DL12 s/n 50514 and up)

Crankcase Capacity (with filter)

- 4045T (John Deere Tier 3) . . . . . 15.5 qts. (14.7 L)
- Oil Type . . . . . Multi-Viscosity Engine Oil (See Engine Manual)
  API Service Classification: CJ-4/CI-4 PLUS/CI-4
- Cooling System Capacity . . . . . 20.0 qts. (18.9 L)
- Coolant Type . . . . . 50/50 mixture of ethylene glycol and water

Axle (Carraro 26.25M and 26.28M)

- Differentials . . . . . 12.0 qts. (11.3 L)
- Planetary Hubs (each) . . . . . 1.4 qts. (1.3 L)
- Total Capacity . . . . . 14.8 qts. (14.0 L)
- Oil Type . . . . . 80W - 90 EP Oil meeting API GL5 classification

Axle (Carraro 26.48M)

- Differentials . . . . . 14.8 qts. (14 L)
- Planetary Hubs (each) . . . . . 1.8 qts. (1.7 L)
- Total Capacity . . . . . 18.4 qts. (14.0 L)
- Oil Type . . . . . 80W - 90 EP Oil meeting API GL5 classification

Transfer Case

- Capacity . . . . . 3 qts. (2.8 L)
- Oil Type . . . . . SAE 40W Motor Oil

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STARTER CIRCUIT TROUBLESHOOTING

The engine does not start. Does the starter engage and turn over the engine?

YES
Is there 12 volts of current at the fuel shut off solenoid?

YES
Check the fuel system pressure before replacing the fuel solenoid.

NO
Is the fuel shut off solenoid fuse open?

YES
Replace the fuel shut off fuse.

NO
Repair or replace the wires between the fuel shut off solenoid and the fuse.

NO
Is the transmission shift lever in neutral?

YES
Is the battery fully charged?

NO
Move the shift lever to the neutral position.

YES
Is the master disconnect switch ON or the battery properly grounded?

NO
Charge or replace the battery.

YES
Is the ignition fuse open?

NO
Turn the master disconnect switch ON, or replace the battery ground cable.

YES
Replace the ignition fuse.

NO
Is there 12 volts at the power terminal of the ignition fuse?

YES
Is the gear selector fuse open?

NO
Replace the 60 amp in-line fuse between the battery terminal of the starter relay and the fuse box.

YES
Replace the gear selector fuse.

NO
With the key switch ON, is there 12 volts to the power terminal of the gear selector fuse?

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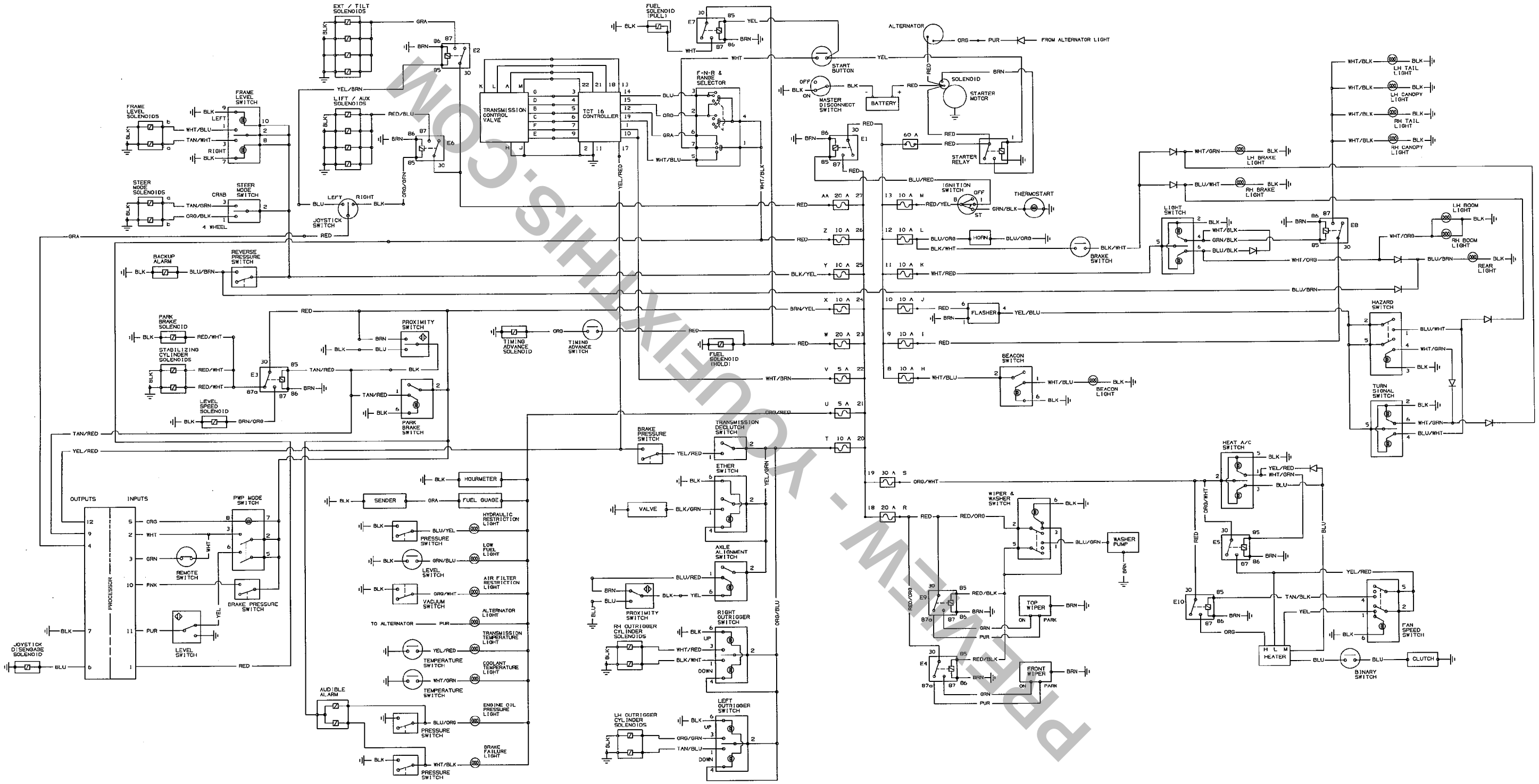
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Electrical Schematic w/ 2-Button Joystick

(For serial numbers listed)

DL-6H . . . .thru S/N 20299
DL-6L . . . .thru S/N 25351
DL-8H . . . .thru S/N 30301
DL-8L . . . .thru S/N 35302

DL-10H . . .thru S/N 40135
DL-10L . . .thru S/N 45097
DL-12H . . .thru S/N 50119



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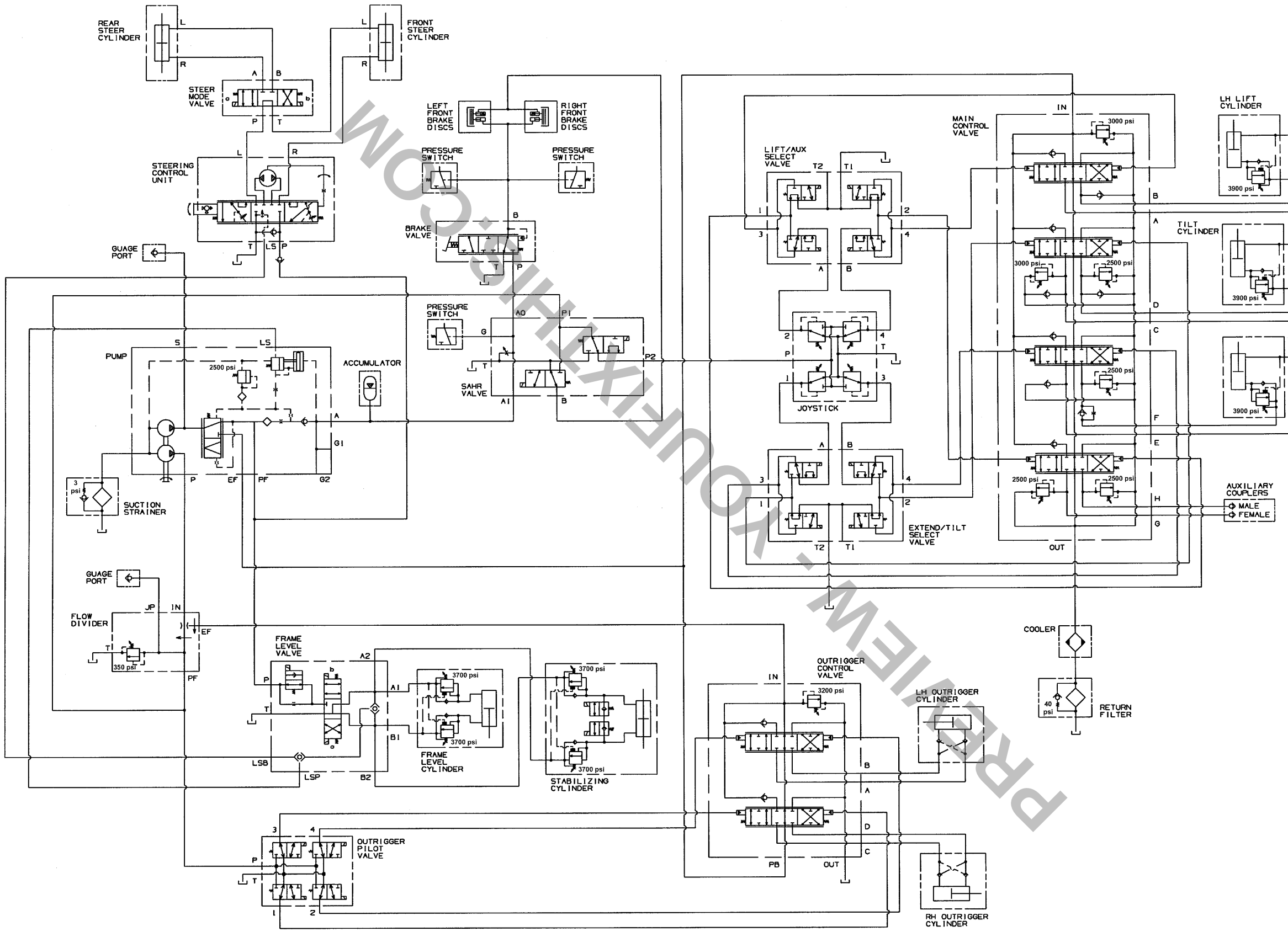
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Hydraulic Schematic w/ 2-Button Joystick

(For serial numbers listed)

DL-6H . . . .thru S/N 20803
DL-6L . . . .thru S/N 25587
DL-8H . . . .thru S/N 30813
DL-8L . . . .thru S/N 35492

DL-10H . . . .thru S/N 40459
DL-10L . . . .thru S/N 45172
DL-12H . . . .thru S/N 50199

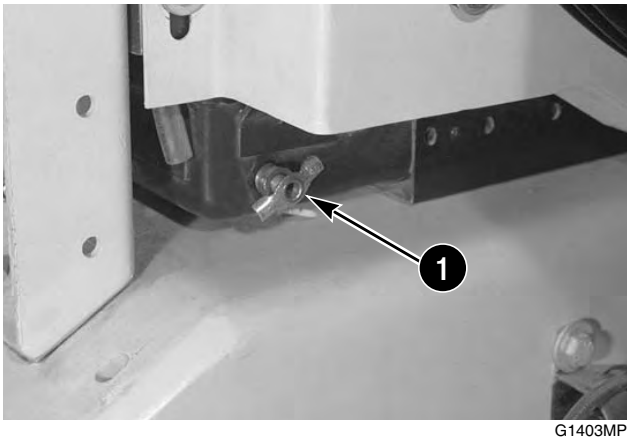


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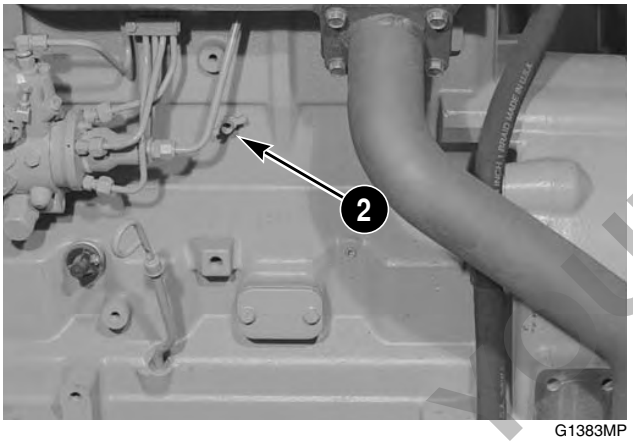
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ENGINE REMOVAL

STEP 1



G1403MP



G1383MP

Open the drain valve (1) to drain the radiator and open the engine drain valve (2) to drain the engine block.

STEP 2



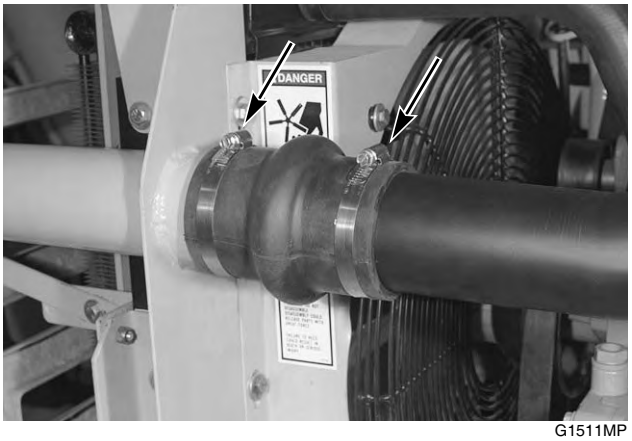
G1356MP

See the Battery Removal section of this manual for the correct battery removal procedure.

NOTE: *Models with the serial numbers listed below are equipped with an engine air intake precleaner. Steps 3 through 7 refer to these models only.*

DL-6H	*S/N 20207 and after*
DL-6L	*S/N 25217 and after*
DL-8H	*S/N 30217 and after*
DL-8L	*S/N 35229 and after*
DL-10H	*S/N 40102 and after*
DL-10L	*S/N 45083 and after*

STEP 3



G1511MP

Loosen the two clamps on the precleaner inlet tube flex connector.

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GENERAL INFORMATION

Except for some configuration differences, hydraulic cylinder disassembly, repair and assembly procedures will be basically the same for the Tilt Cylinder, Frame Leveling Cylinder, Boom Lift Cylinder and Boom Slave Cylinder used on the Dynalift. Except where noted differences or procedures are required for special application cylinders, use the following repair procedures for hydraulic cylinders.

When backup rings are used with O-ring seals, always note the position of the backup ring (above or below the O-ring) when removing the seals for reassembly reference.

One piece Nylatron type piston seals can be difficult to install on the piston. Soaking these seals in hot water for a short time prior to installation will make the seals more resilient and easier to install on the piston.

Before installing the piston and rod assembly into the barrel, lubricate the piston seals and wear rings liberally with clean operating fluid. Using an engine piston ring compressor to compress the piston seals tightly for a short period of time will often aid in the assembly procedure.

MANDATORY SAFETY SHUTDOWN PROCEDURE

BEFORE cleaning, lubricating or servicing this equipment:

1. Bring machine to full parking stop on level surface (never park on a slope or hillside).
2. Fully retract the boom and lower the attachment to the ground.
3. Place controls in NEUTRAL and set Park Brake.
4. Idle Engine for gradual cooling.
5. Turn the starter keyswitch to OFF position and remove key. (Take key with you for security reasons.)

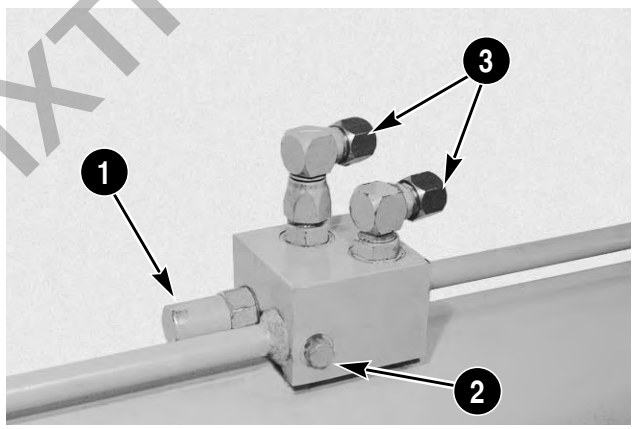
ONLY when you have taken these precautions can you be sure it is safe to proceed. Failure to follow the above procedure could lead to death or serious personal injury.

WARNING

When disassembling hydraulic cylinders, NEVER use pneumatic or hydraulic pressure to aid in removing the piston and rod assembly from the cylinder barrel. To ignore this warning may result in severe injury or death.

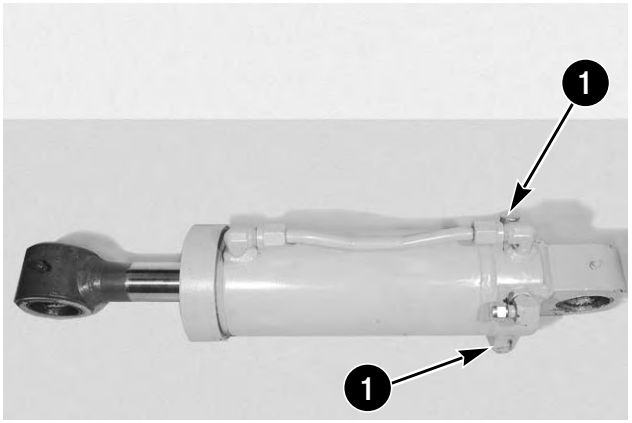
CYLINDER DISASSEMBLY

STEP 1



G1531MP

Select a clean environment. Remove the load check valve (1) slowly to relieve any residual pressure, plug (2) and caps (3) from the valve block.



G1562MP

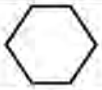
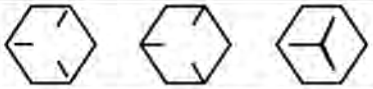
NOTE: *The cartridges (1) for the frame leveling cylinder are located in different areas.*

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SAE FASTENER TORQUE CHART

NOTE: *Use these torques, unless special torques are specified. Values are for UNC and UNF thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.*

SAE Grade No.	2				5				8*			
Bolt head identification (See Note 1)												
Bolt Size	LB FT		Nm		LB FT		Nm		LB FT		Nm	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	975
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8					800	880	1085	1193	1280	1440	1736	1953
1-1/4					1120	1240	1519	1681	1820	2000	2468	2712
1-3/8					1460	1680	1980	2278	2380	2720	3227	3688
1-1/2					1940	2200	2631	2983	3160	3560	4285	4827

NOTE 1: *Bolt head identification marks as per grade. Manufacturing marks will vary. *Thick nuts must be used with Grade 8 bolts.*

METRIC FASTENER (ISO) TORQUE CHART

NOTE: *Use these torques, unless special torques are specified. Values are for UNC and UNF thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.*

ISO Grade No.	8.8				10.9				12.9			
Bolt head identification (See Note 1)												
Bolt Size	LB FT		Nm		LB FT		Nm		LB FT		Nm	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
M4	3	4	2	3	4	5	3	4				
M5	6.5	8	5	6	9.5	11	7	8				
M6	10.5	12	8	9	15	17.5	11	13				
M8	26	31	19	23	37	43	27	32				
M10	52	61	38	45	73	87	54	64				
M12	90	107	66	79	125	150	93	112				
*M14	144	172	106	127	200	245	149	179				
M16	217	271	160	200	310	380	230	280				
M20	434	515	320	380	610	730	450	540				
M24	675	815	500	600	1050	1275	780	940				
M30	1250	1500	920	1100	2000	2400	1470	1770				
M36	2175	2600	1600	1950	3500	4200	2580	3090				

Because of the low ductility of these fasteners, the torque range is to be determined individually for each application. As a general rule, the torque ranges specified for grade 10.9 fasteners can be used satisfactorily.

*M14 is not a preferred size

NOTE 1: *Bolt head idenficiation marks as per grade. Manufacturing marks will vary.*

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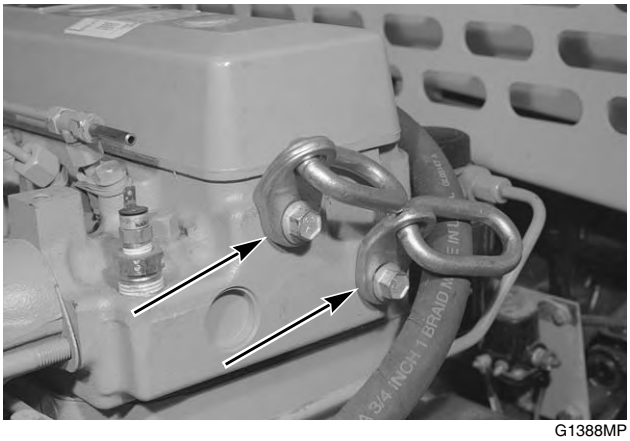
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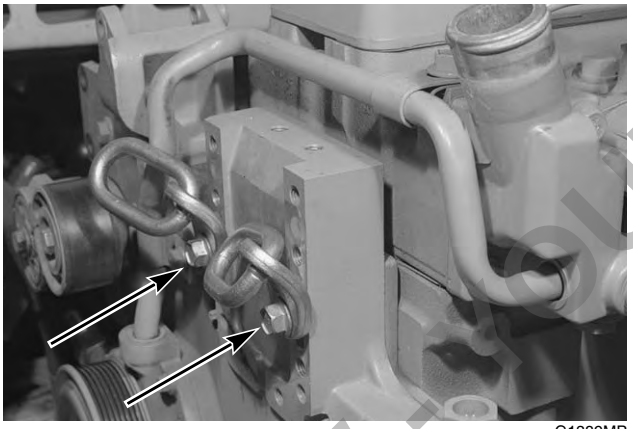
STEP 42



G1388MP

Install lifting brackets or rings to the engine head as shown.

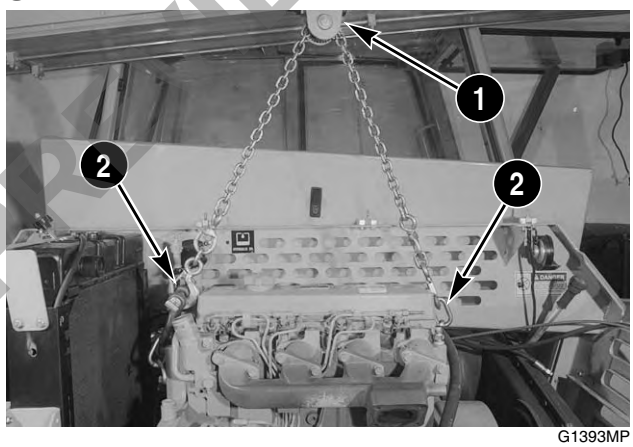
STEP 43



G1389MP

Install lifting brackets or rings to the fan bearing mount as shown.

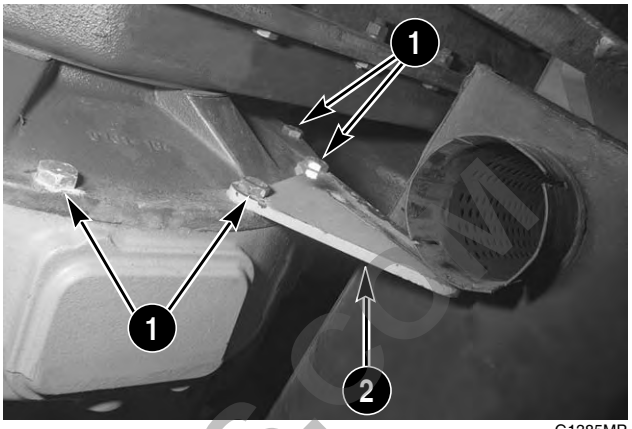
STEP 44



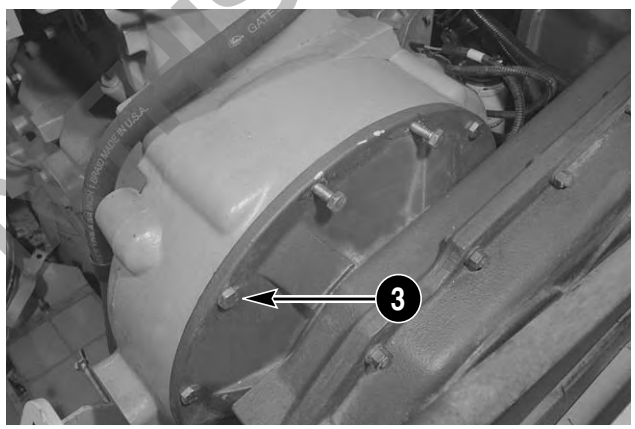
G1393MP

Attach a 2000 lb (920 kg) or larger load rotor (1) to the lifting brackets or rings (2). And attach the load rotor (1) to the hoist. Raise the hoist enough to support the weight of the engine.

STEP 45



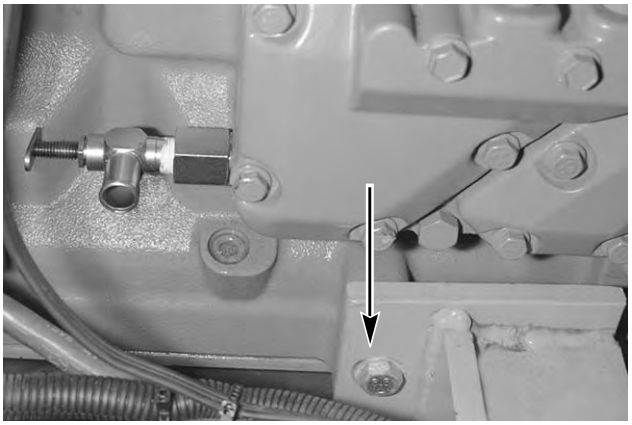
G1385MP



G1391MP

Remove the lower bell housing bolts (1) and muffler clamp bracket (2) first. Remove the remaining bell housing bolts (3).

STEP 46



G1157MP

Remove the three LH engine mount bolts.

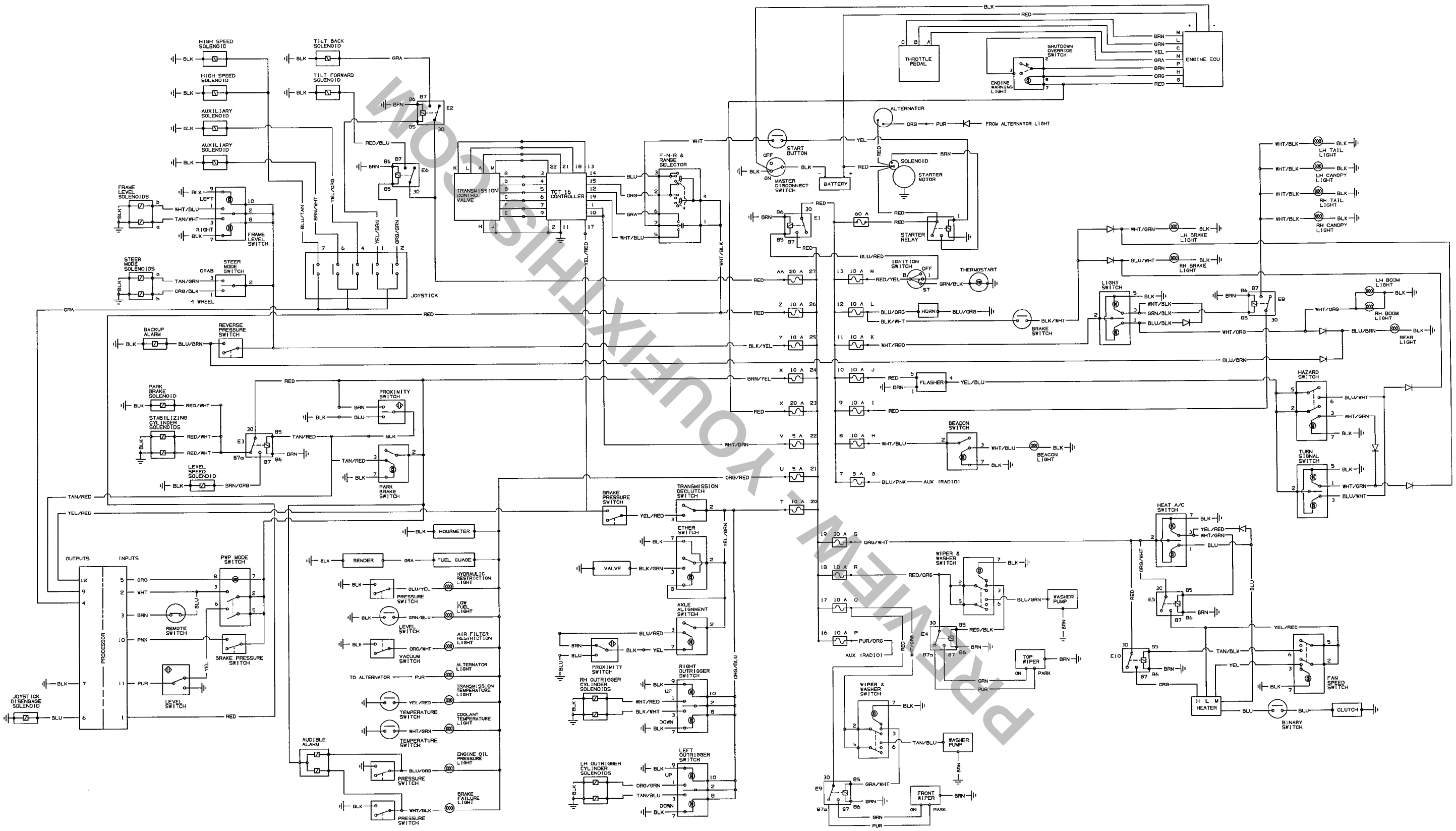
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Electrical Schematic w/ 4-Button Joystick

(For serial numbers listed below)

DL-6H serial number 20824 and up
DL-6L serial number 25616 and up
DL-8H serial number 30852 and up
DL-8L serial number 35504 and up

DL-10H serial number 40499 and up
DL-10L serial number 45185 and up
DL-12H serial number 50221 and up



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STEERING CONTROL VALVE REMOVAL

MANDATORY SAFETY SHUTDOWN PROCEDURE

BEFORE cleaning, lubricating, or servicing this equipment:

1. Bring machine to full parking stop on level surface (if parking on a slope or hillside cannot be avoided, park across the slope and block the tires).
2. Fully retract the boom and lower the attachment to the ground.
3. Place controls in NEUTRAL and set the Park Brake.
4. Idle the engine for gradual cooling.
5. Turn the Starter Keyswitch to OFF position and remove key (take key with you for security reasons).

ONLY when you have taken these precautions can you be sure it is safe to proceed. Failure to follow the above procedure could lead to death or serious personal injury.

STEP 1

Disconnect the battery ground cable.

STEP 2



G1784MP

Pry the horn button from the center of the steering wheel.

STEP 3



G1782MP

Loosen and remove the steering wheel nut.

STEP 4



G1781MP

Remove the steering wheel from the steering column. Use care not to damage the horn wire.

STEP 5



G1780MP

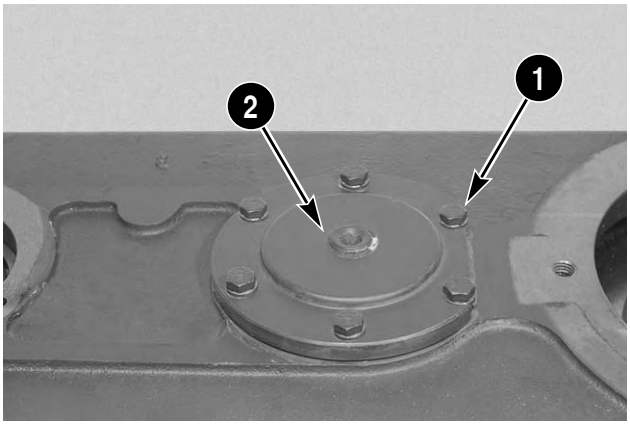
Remove the rubber grommet from the steering column.

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Remove and discard the o-rings from the engine and transmission bell housing pilot flange.

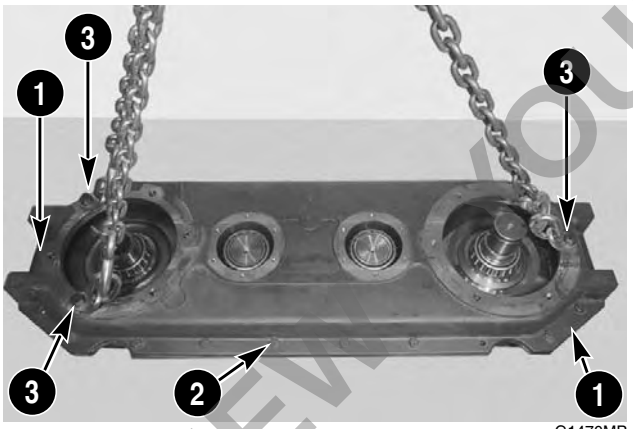
STEP 11



G1505MP

Remove the six bolts (1) from each driven gear bearing retainer (2) and remove both retainers. Retain the bearing adjusting shims with each bearing retainer.

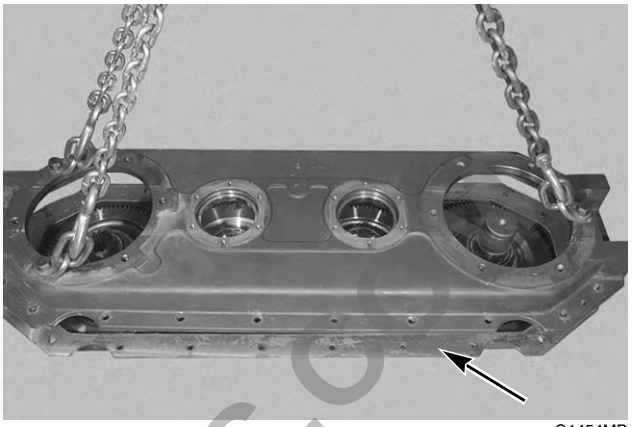
STEP 12



G1470MP

Drive the two dowel pins (1) out of the top flange. Remove the remaining housing flange bolts (2), lock washers and nuts. Use three of the 1/2 x 1-1/2 inch bolts (3) and lock washers (removed during disassembly) to install lift rings and chains on the transfer case housing as shown.

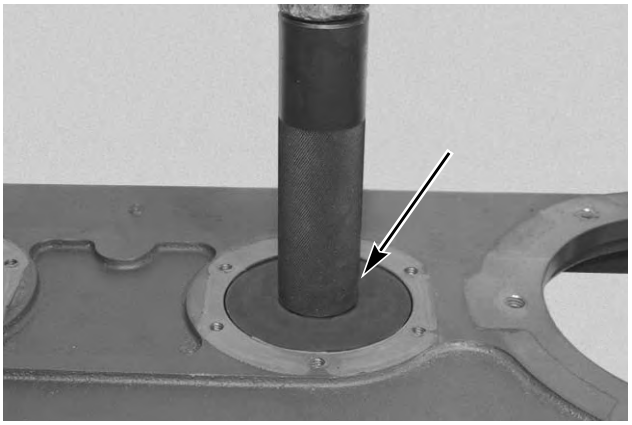
STEP 13



G1454MP

Raise the hoist only enough to suspend the transfer case weight from the chains. If the transfer case housings do not separate, the RTV sealant between the flanges is holding them together. It may be necessary to pry the two halves of the housing apart. Clean the RTV sealant from both housing split line flanges.

STEP 14



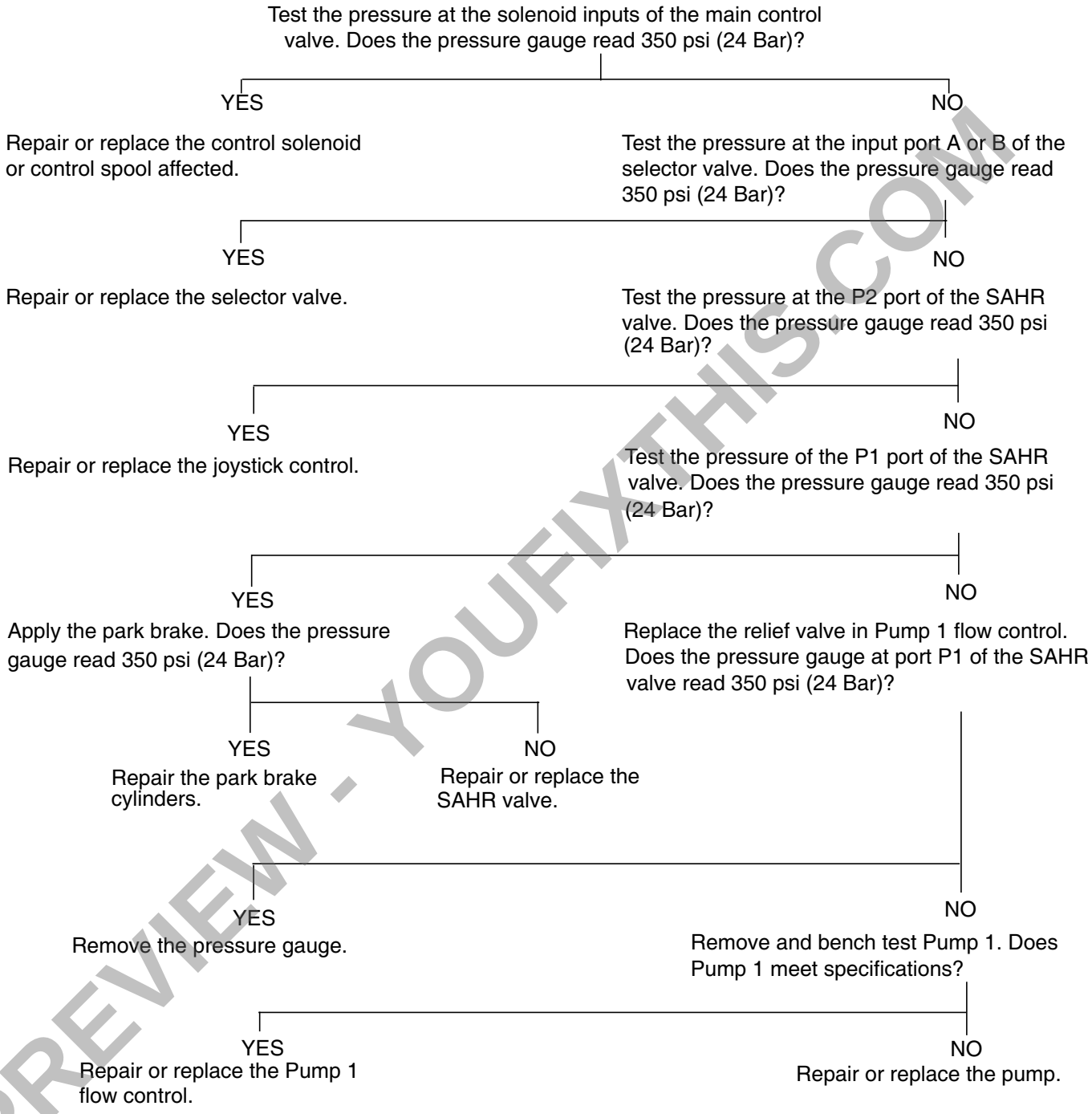
G1463MP

To remove the bearing cups from the shaft housing use a 2 7/8 inch (73 mm) bearing driver to push the cups out of the housing.

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CONTROL AND PARK BRAKE PILOT PRESSURE TROUBLESHOOTING



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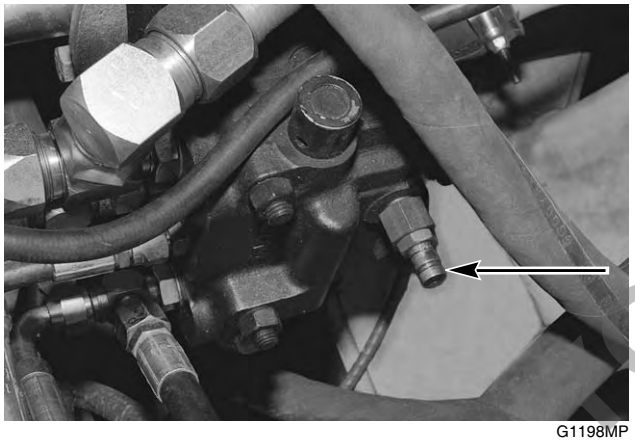
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FRAME LEVELING LOAD CHECK VALVE QUICK TEST

WARNING

To perform any frame leveling tests the park brake must be OFF. Park the unit on level ground and place blocks in front of and behind both rear wheels.

STEP 1



G1198MP

Install a 5000 PSI (345 Bar) pressure gauge and hose on the test port of Pump 2.

NOTE: *The hose must be long enough to observe the pressure gauge from inside the cab or standing clear of the forklift.*

STEP 2



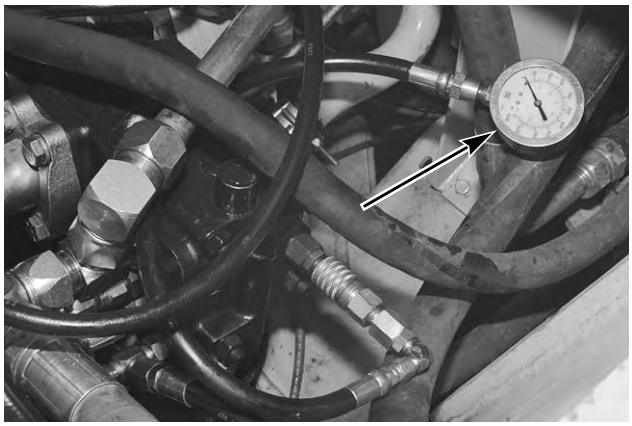
G1244MP

Start the engine and run at 1000 RPM. Hold the frame leveling switch in the TILT RIGHT or TILT LEFT position. The pressure gauge should read 1500 PSI (103 Bar) as the frame is tilting.

If the pressure is less than 1500 PSI (103 Bar) proceed to Step 3.

If the pressure is more than 1500 PSI (103 Bar) proceed to Step 7 (Tilt Right) or Step 12 (Tilt Left).

STEP 3



G1224MP

Hold the switch in the TILT RIGHT or TILT LEFT Position until the frame leveling cylinder reaches the end of its stroke. The pressure gauge should read 2500 PSI (172 Bar).

If the pressure is less than 2500 PSI (172 Bar) go to the Frame Leveling Cylinder Direct Test.

If the pressure is 2500 PSI (172 Bar) proceed to Step 5.

STEP 4

Repeat Steps 2 and 3 in the opposite direction.

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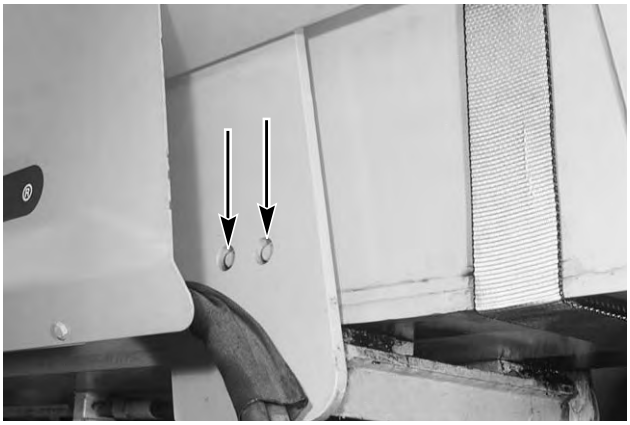
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STEP 29



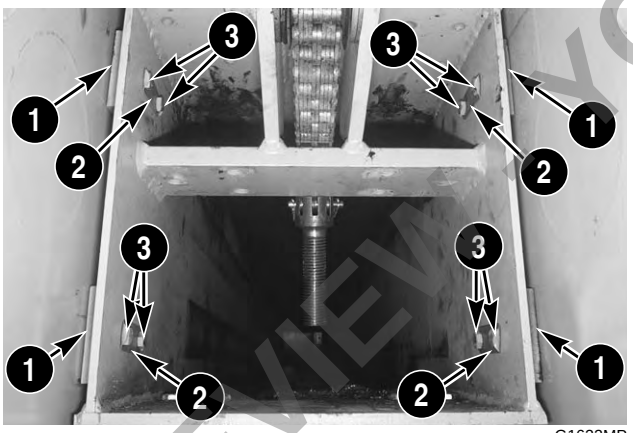
G1624MP

Reinstall the lower side slide pad and shims to the front of the outer boom using the two bolts. Use Loctite 271 (red) Thread Lock (or equivalent) on the threads of the bolts and tighten to 30 ft lbs (40.7 Nm) torque.

STEP 30

Remove the lifting strap and push the intermediate boom section into the outer boom as far as possible.

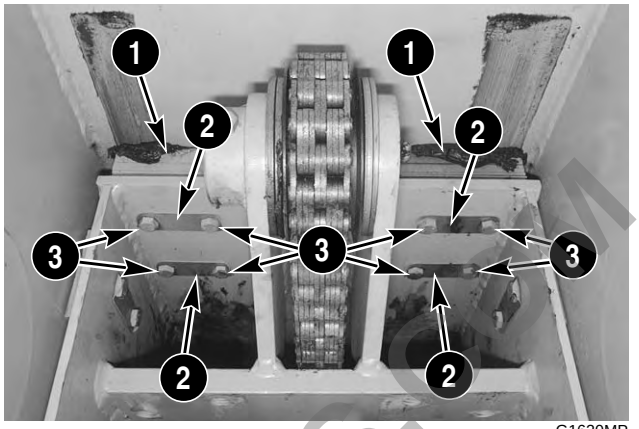
STEP 31



G1622MP

Reinstall the four side slide pads and shims (1) to the rear of the intermediate boom, using the lockplates (2) and bolts (3). Use Loctite 271 (red) Thread Lock on the threads of the bolts and tighten to 30 ft lbs (40.7 Nm) torque. Bend each end of the lockplates up.

STEP 32



G1620MP

Reinstall the two top slide pads and shims (1) to the rear of the intermediate boom, using the lockplates (2) and bolts (3). Use Loctite 271 (red) Thread Lock (or equivalent) on the threads of the bolts and tighten to 30 ft lbs (40.7 Nm) torque. Bend each end of the lockplates up.

STEP 33



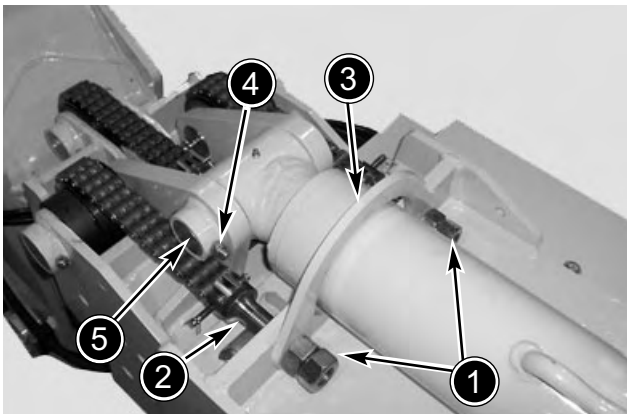
G1623MP

Apply grease to the inside bottom and top surfaces of the intermediate boom section where the pads of the inner boom will contact when assembled. Use a brush attached to a rod or pole to reach inside the boom.

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STEP 10



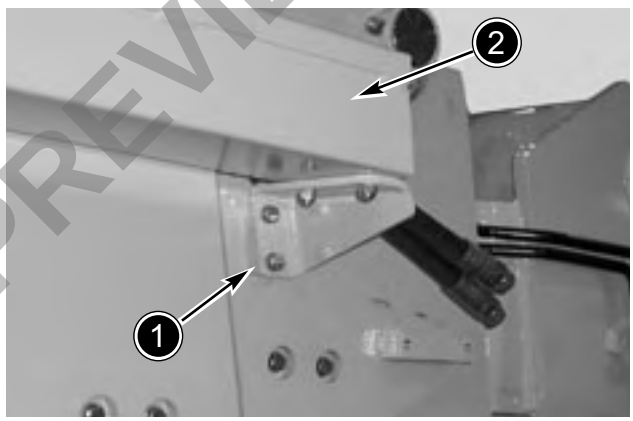
Remove the four nuts (1) that secure the top two chain adjusters (2) to the outer boom. Remove the extend cylinder bracket (3) and hang the boom chains over the front of the boom. Remove the bolt and nut (4) from the extend cylinder mount bracket. Remove the extend cylinder pin (5) from the 1st intermediate boom.

STEP 11



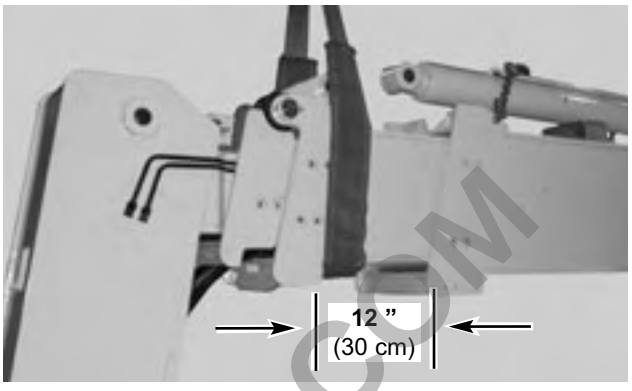
Lift the extend cylinder out of the extend cylinder mount and block as shown.

STEP 12



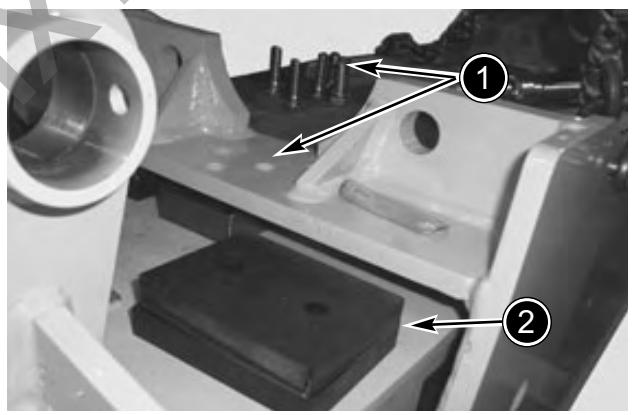
Remove the two hose tray mount bolts and lock washers (1). Move the hose tray (2) away from outer boom. Secure the hose tray to the 1st intermediate boom using mechanic's wire.

STEP 13



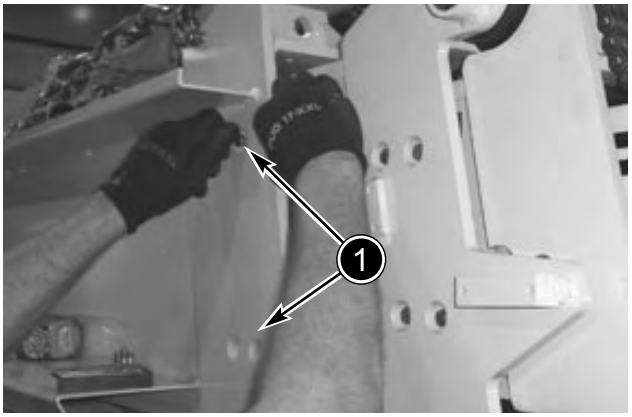
Using a hoist and lifting strap around the 1st intermediate boom section, pull the 1st intermediate boom assembly out of the outer boom section approximately 12 inches (30 cm). Using the hoist and lifting strap, maintain upward pressure on the 1st intermediate boom section

STEP 14



Remove the three center chain clevis block bolts (1) and lock washers. Remove the top slide pads (2) and shims from the top of the outer boom (both sides).

STEP 15

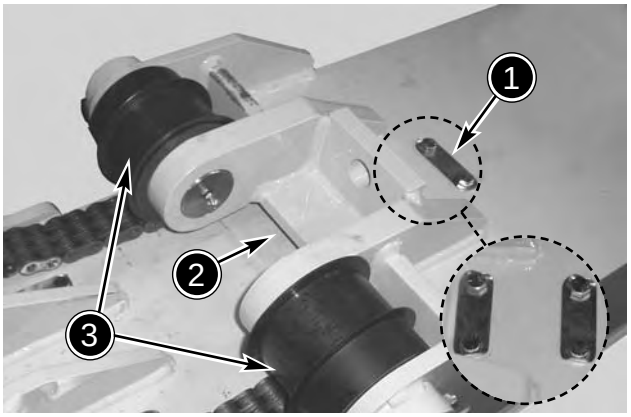


Remove the bolts (1) and lock washers from outer boom side slide pads (both sides). Remove the side slide pads and shims (both sides).

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STEP 22



Remove the four bolts and two lock plates (1) from the top slide pad of the 1st intermediate boom section. Pull the top slide pad and shims (2) out from the top of the 1st intermediate boom section. Remove the chain roller assemblies (3) (both sides).

STEP 23



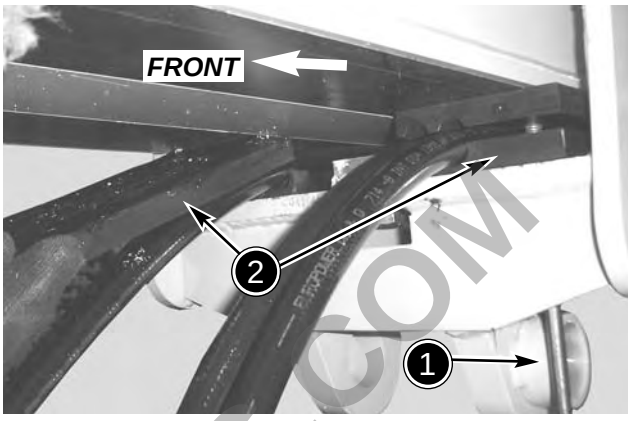
Remove the side slide pads and shims from both sides of the 1st intermediate boom.

STEP 24



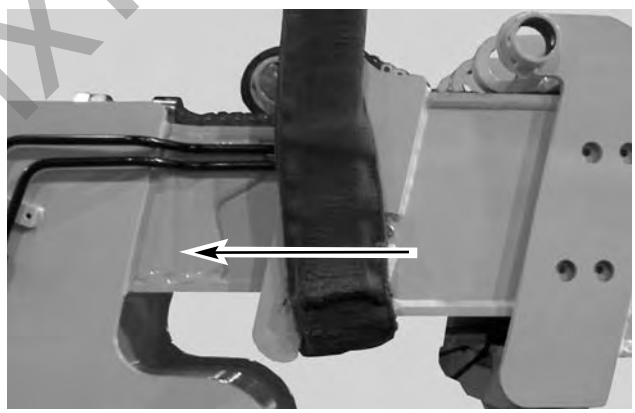
Using a hoist and lifting strap around the 2nd intermediate boom, apply upward pressure on the 2nd intermediate boom section.

STEP 25



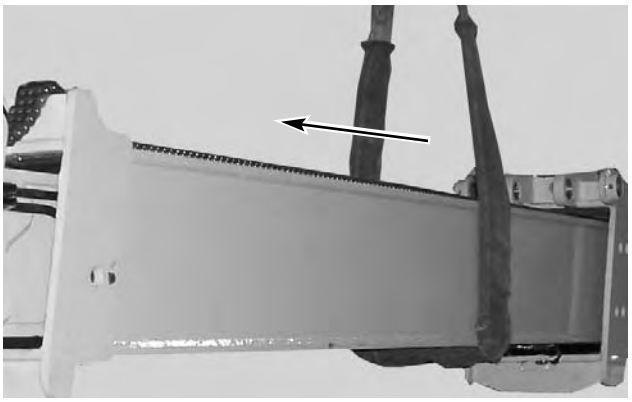
Remove the four 3/8" studs (1) and the two bottom slide pads (2) from the 1st intermediate boom. The hoses (3) will remain in the 1st intermediate boom section.

STEP 26



Using a hoist and lifting strap around the 2nd intermediate boom, pull the 2nd intermediate boom section out of the 1st intermediate boom section.

STEP 27



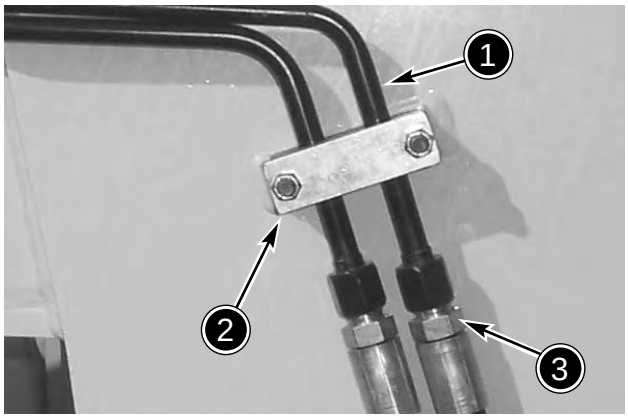
Reposition the hoist and lifting strap to achieve a balanced lifting point. Resume sliding the 2nd intermediate boom and inner boom assembly out of the 1st intermediate boom.

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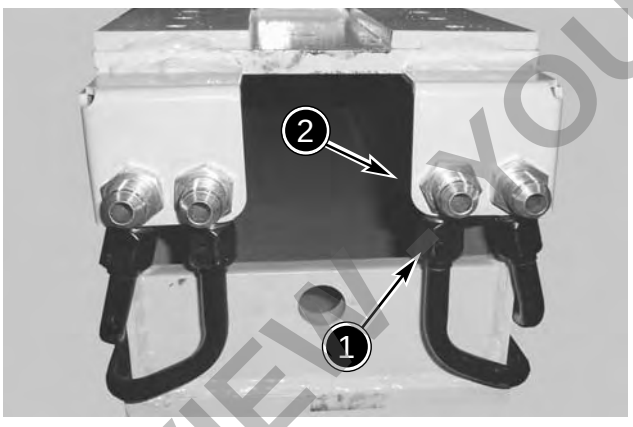
INNER BOOM HYDRAULIC TUBES INSTALLATION

STEP 5



Reinstall the hydraulic tube clamps (1) and hydraulic tubes (2) on both sides of the front inner boom, but do not tighten the clamps. Connect the front hoses (3) and hydraulic tubes (not shown; located on other side), do not tighten the hose and tube connections.

STEP 6



Connect the four hydraulic tubes (1) to the four bulkhead adapters (2) on the rear of the inner boom; leave the connections loose.

STEP 7



Reinstall all the vinyl clamps to the rear, side and front of the inner boom (both sides). Use Loctite® 271 (red) Thread Lock (or equivalent) on the threads; do not over tighten.

STEP 8

Tighten the hydraulic tube connections to the hoses and tubes on the front of the inner boom (Step 5).

STEP 9

Tighten the hydraulic tube connections to the bulkhead adapters on the rear of the inner boom (Step 6).

STEP 10

Reinstall the inner boom following the procedures in Section 715 of this manual.

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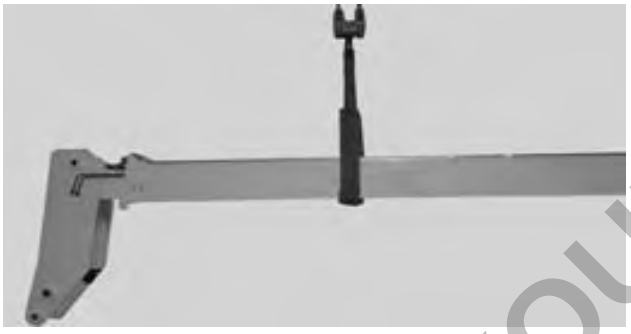
INNER BOOM

GENERAL INFORMATION

In order to replace the rear pads on the inner boom, it is necessary to remove the 2nd intermediate boom and the inner boom as an assembly. See Sections 713 (low boom models) and 714 (high boom models) of this manual for the correct procedure.

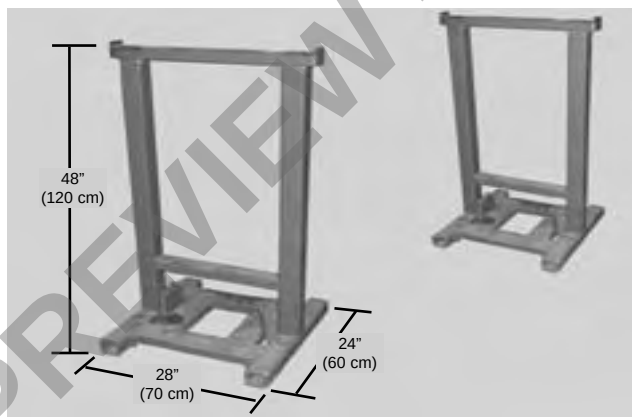
Because of the time involved with removing the inner boom, it is strongly recommended to replace all slide pads on the rear inner boom.

STEP 114



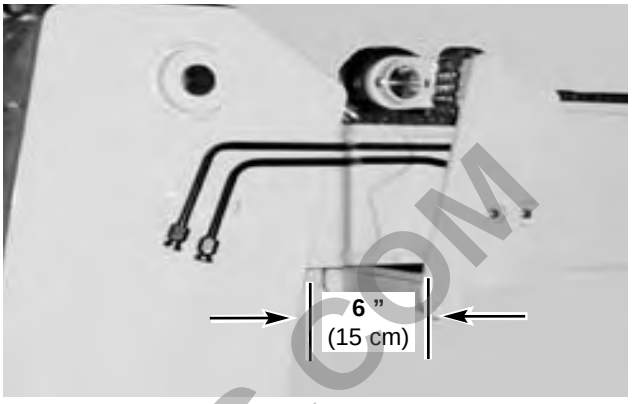
Remove 2nd intermediate boom, see Sections 713 (low boom models) and 714 (high boom models) of this manual for the correct procedure.

STEP 115



Place the 2nd intermediate/inner boom assembly on two sturdy stands capable of safely holding 2,000 lbs. (900 kg).

STEP 116



Using a prybar, or other device, pull the inner boom out of the 2nd intermediate boom approximately 6 inches (15 cm).

Inner boom pad replacement procedure continues on next page.

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Section

722

2ND INTERMEDIATE BOOM CHAIN AND ROLLER REPLACEMENT 4-SECTION HIGH AND LOW BOOM MODELS

DL Series Dynalift

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