Form No.
907212

4625

Skid Loader

SN 17248 and Later



SHOP MANUAL

GEHL®

PREVIEW ONLY - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Table of Contents

Specifications 1

General Information....1-1
Standard Features....1-1
Tire Options....1-1
Buckets & Capacities....1-1
Dimensions....1-2

Safety 2

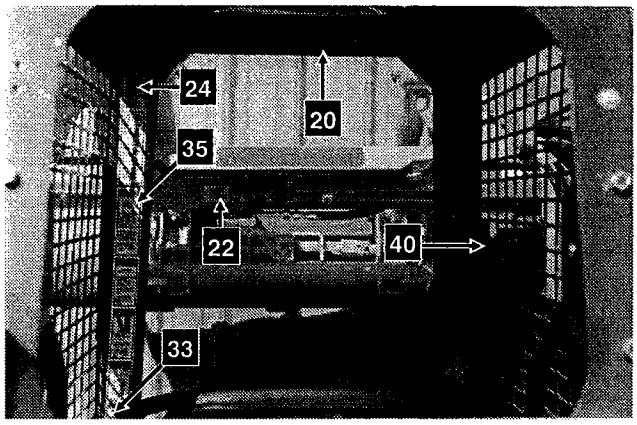
General Information....2-1
Signal Words....2-1
Additional Safety Reminders....2-1
Mandatory Safety Shutdown Procedure....2-2
Lift Cylinder Mechanical Lock....2-3
Cylinder Lock Engagement....2-3
Cylinder Lock Disengagement....2-4
Overhead Guard - Raising....2-5
Overhead Guard - Lowering....2-6
Relieving Hydraulic Pressure....2-6
Loader Raising Procedure....2-7
Loader Lowering Procedure....2-7
Safety Decals....2-8

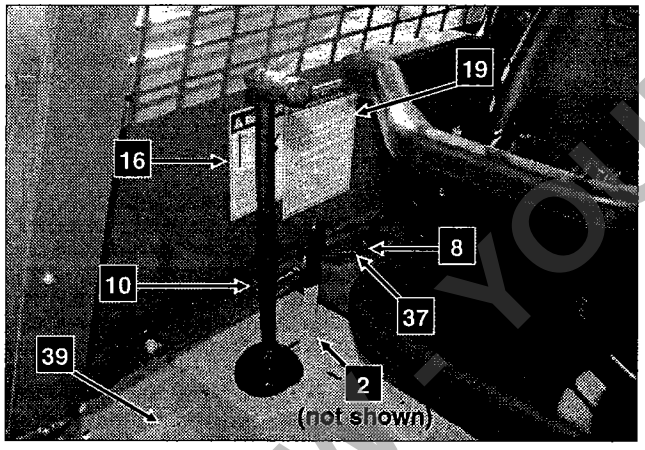
Decals 3

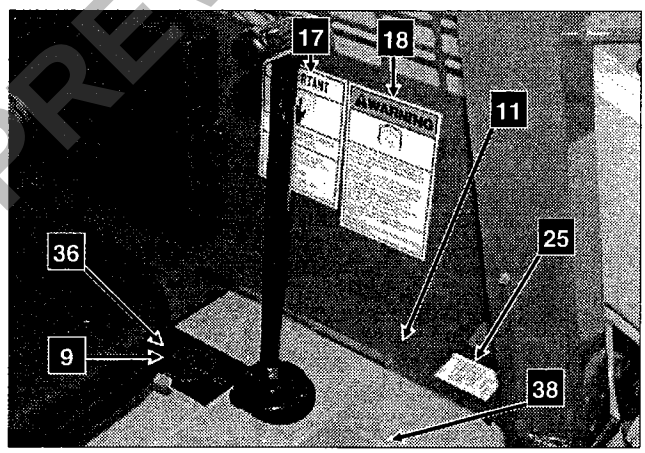
New Decal Application....3-1
Paint Finish....3-1
Decal List....3-2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com







Decal List

Decals may be purchased in kit form (4625- #122852, 4625SX- #122853, 4625DX- #122854) or individually.

Ref No.	Part No.	Description
1	056859	Coolant Mixture
2	123598	Dual Pump Operating Instructions (DX only)
3	064873	Non-Skid Surface Strip
4	067493	Red Reflector Strip (2 places)
5	072794	Hydraulic Oil Symbol
6	072797	Diesel Fuel Symbol
7	072798	Coolant Under Pressure
8	072853	Lift/Tilt Lever
9	072854	Traction Lever
10	073075	Slow-Fast (Turtle-Rabbit) Symbol
11	073076	Brake Symbol (*Before S/N 19720*)
12	079362	Hydraulic Oil Level
13	091033	WARNING - Jump Starting Loader
14	091035	DANGER - Lift Arm Raised
15	091050	DANGER - Rotating Component
16	093202	DANGER - Avoid Electrical Contact
17	093366	IMPORTANT - Locate Manual Here
18	093367	WARNING - Owner's Responsibility
19	093474	WARNING - General Safety Precautions
20	093475	WARNING - Carry Load Low
21	093477	WARNING - Overhead Guard Safety Pin
22	093479	WARNING - Carry Load Low
23	093484	DANGER - Proper Heating Unit Ground
24	094583	Operating Capacity
25	094584	Auxiliary Hydraulics
26	129267	Service Guide
27	121030	Non-Skid Strip (4 places)
28	122239	Radiator Inspection/Cleaning
29	122288	GEHL on vertical risers (2 places)
30	122289	GEHL 2-1/2 x 11-3/4 (on grill)
31	122432	GEHL 2 x 9 (on Lift Arm front)
32	122292	4625
32	122293	4625SX
32	122294	4625DX
33	122718	WARNING - Quick Tach Locking Pin
34	122745	WARNING - Gas Cylinder (2 places)
35	123912	WARNINGS (four) *(before S/N 19720)*
35	129258	WARNINGS (three) *(S/N 19720 & later)*
36	123378	Forward/Reverse (Hand/Foot only)
37	123379	Forward/Reverse-Aux (Hand/Foot only)
38	123380	Lift (Hand/Foot only)
39	123381	Tilt (Hand/Foot only)
40	094951	Made in USA
41	114316	Important/Starting
42	123783	Brake Switch
43	129130	WARNING - Do not open
44	129132	DANGER - Lift Arm Support
45	129133	Emergency Exit

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Loader Raising Procedure

The following procedure should be used to raise the Skid Loader so that all four (4) Tires ARE NOT contacting the ground.

⚠WARNING

BEFORE beginning this service procedure, perform the following SAFETY procedure:

❑ Shut down the Engine.

For detailed instructions on the above, refer to the Safety Chapter of this manual.

⚠WARNING

DO NOT rely on a jack or hoist to maintain the "raised" position without additional blocking and supports. Serious personal injury could result from improperly raising and/or blocking the Skid Loader.

1. For blocking the Loader, obtain solid wooden blocks that measure 6" to 8" wide and about 12" long. Obtain enough blocks so that when stacked, the blocks for each corner of the Loader will raise the Loader completely off the ground.

2. Using a jack or hoist of sufficient capacity, lift the rear of the Loader until the rear Tires are off the ground.

3. Place a stack of wooden blocks under the flat part of the Loader Chassis. They should run parallel with, but not touch, the rear Tires. **See Fig. 2-9**

4. Lower the Loader so its weight rests on the blocks. If the Tires still touch the ground, raise the Loader again and add more blocks, then lower again.

5. Repeat steps 2 thru 4 for the front end of the Loader. When the procedure is finished, all four Tires should be off the ground so they can be removed if necessary. **See Fig. 2-9**

Loader Lowering Procedure

When service or adjustment procedures are complete, the Skid Loader can be taken down from the "raised" position. Lower the Loader back onto its Tires as follows:

1. Using a jack or hoist, raise the Loader until its weight no longer rests on the front blocks.

2. Carefully remove the blocking under the front of the Loader.

3. Lower the Loader slowly until the front Tires are resting on the ground.

4. Repeat Steps 1 thru 3 for the rear of the Loader. When the procedure is finished, all four (4) Tires should be on the ground and the blocking should be removed from under the Loader.

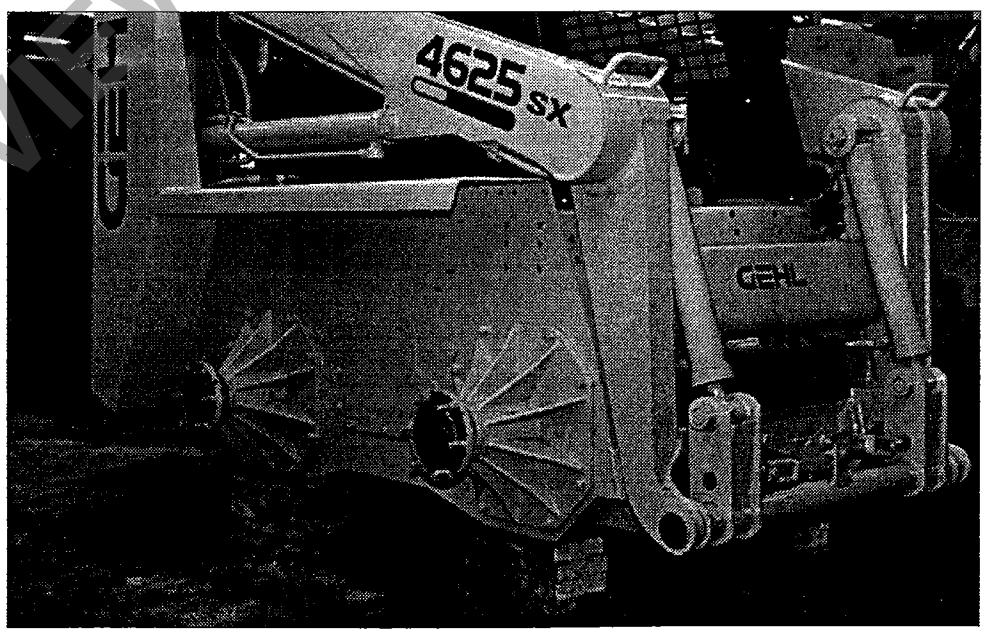


Fig. 2-9 Skid Loader properly blocked up (tires and wheels removed to show blocks).

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

T-Bar and Crosstube Assembly - T-Bar Controls

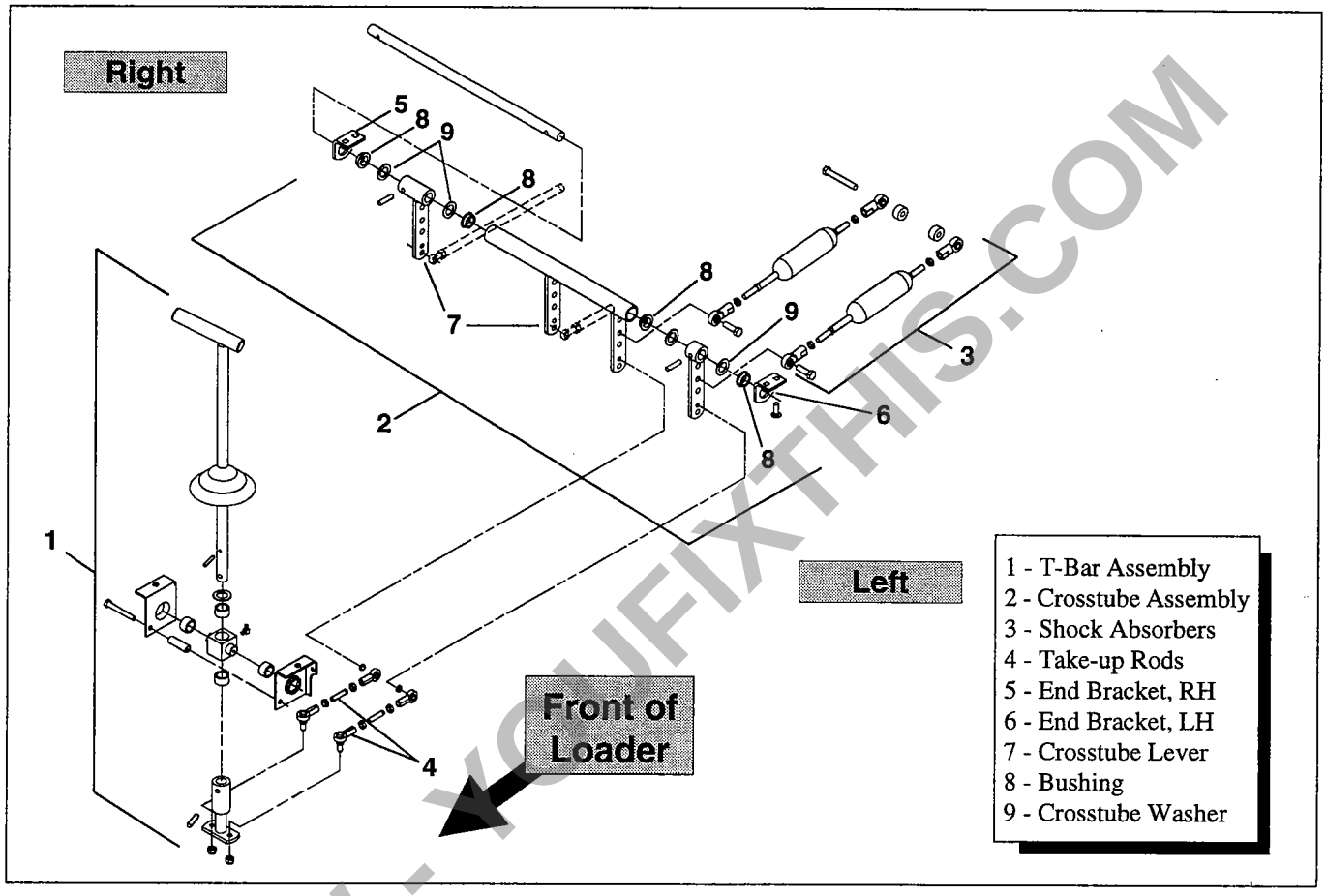


Fig. 7-53 T-Bar and Crosstube Assembly (For breakdown of T-Bar, refer to **Fig. 7-7**)

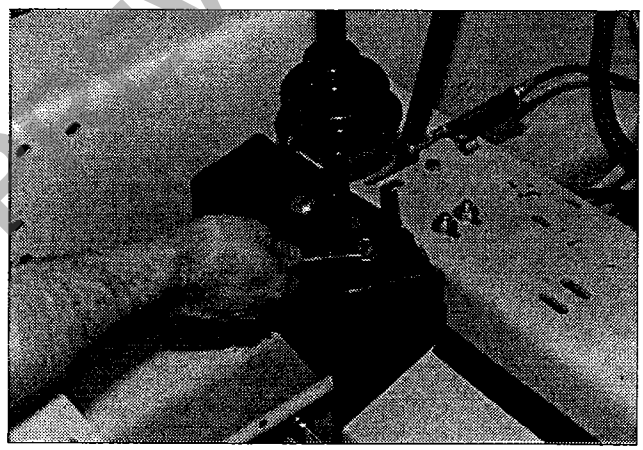


Fig. 7-54 Remove the T-Bar Covers.

NOTE: For models ***before S/N 19720*** begin with step 1 below.

For models ***S/N 19720 & later***, remove the T-Bar/Pump Cover according to the "T-Bar/Pump Cover Removal & Installation" procedure in the Chassis Chapter of the manual; continue with step 3 on following page.

1. Remove the T-Bar Covers from both T-Bar assemblies. **See Fig. 7-54**

Procedure continued on following page...

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

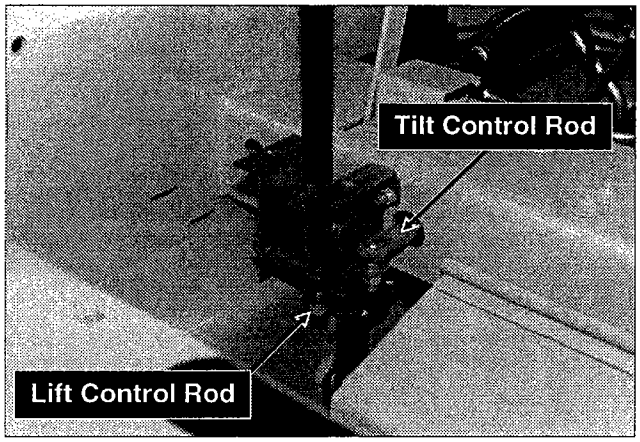


Fig. 7-20 Right-hand T-Bar adjustment on Loader with T-Bar Controls.

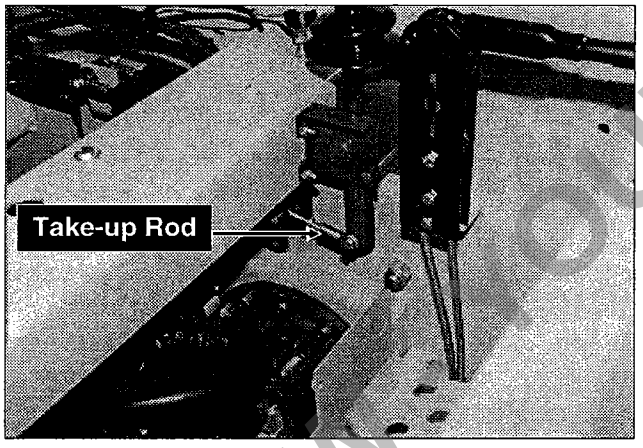


Fig. 7-21 Left-hand T-Bar adjustment on Loader with Hand / Foot Controls.

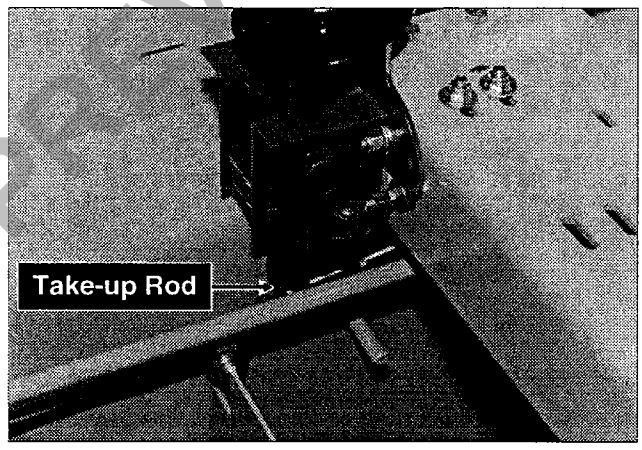


Fig. 7-22 Right-hand T-Bar adjustment on Loader with Hand / Foot Controls.

2. RH T-Bar, T-Bar Controls

❒ *Vertical Orientation* - Adjustment is made by changing the length of the Hydraulic Lift Control Rod attached to the bottom of the Tilt Tab Assembly . **See Fig. 7-20**

❒ *Handle Orientation* - Adjustment is made by changing the length of the Hydraulic Tilt Control Rod attached to the tab of the Tilt Tab Assembly . **See Fig. 7-20** The Handle should point to the ROPS mounting hole on the Chassis as shown in **Fig. 7-17.**

3. LH T-Bar, Hand/Foot Controls

❒ *Vertical Orientation* - Adjustment is made by changing the length of the Take-Up Rod attached to the side of the Trunnion Assembly. **See Fig. 7-21**

❒ *Handle Orientation* - No adjustment.

4. RH T-Bar, Hand/Foot Controls

❒ *Vertical Orientation* - Adjustment is made by changing the length of the Take-Up Rod attached to the bottom of the Auxiliary Hub Assembly. **See Fig. 7-22**

❒ *Handle Orientation* - No adjustment needed. Refer to the Auxiliary Hydraulics Cable Adjustment procedure in this chapter.

PREVIEW ONLY YOUFIXTHIS.COM

Download full manual at youfixthis.com

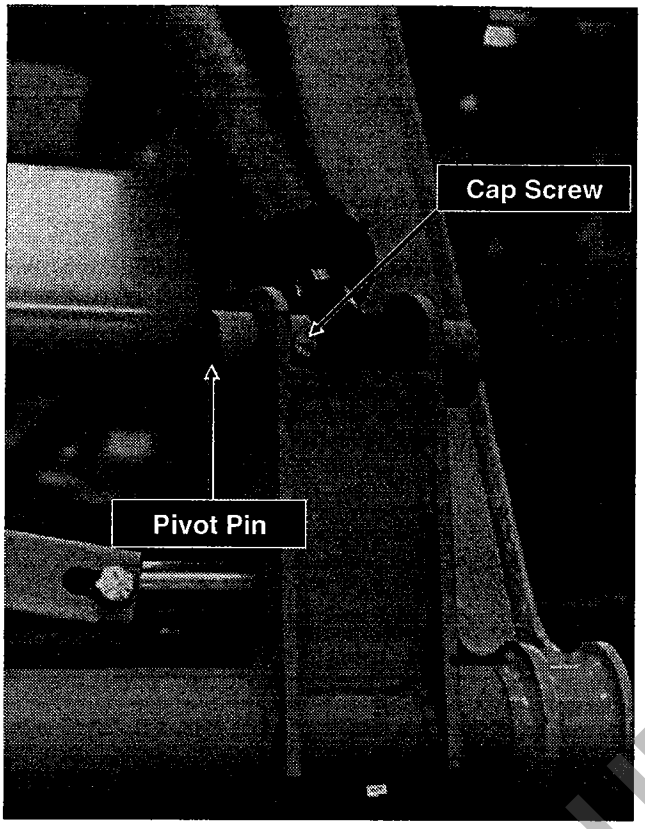


Fig. 9-30 Lower Tilt Cylinder and Quick-Tach Assembly

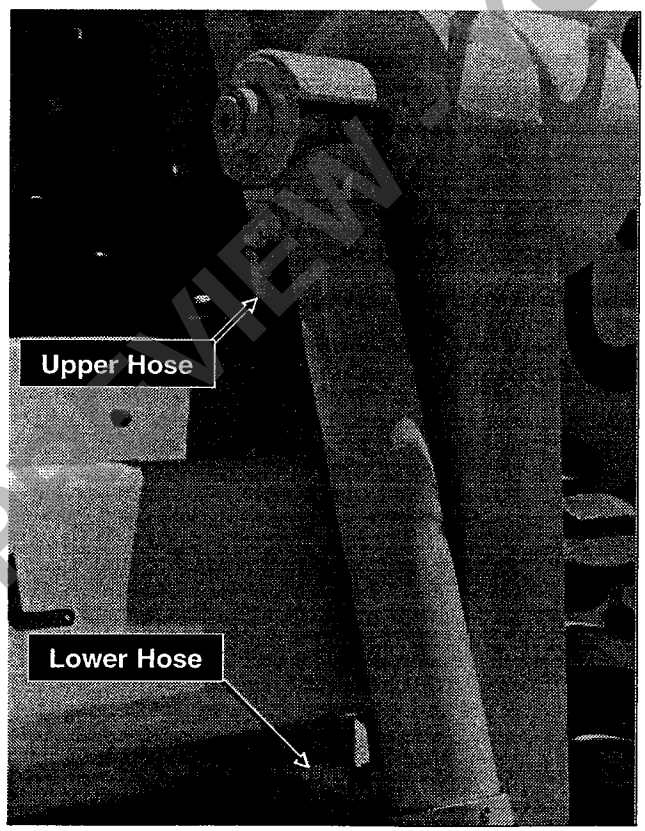


Fig. 9-31 Hydraulic Hose connections on Tilt Cylinder

NOTE: After removing and/or replacing any component in the Hydraulic System, ALWAYS check the level of Hydraulic Fluid in the Reservoir. Add Fluid if necessary. Refer to the Lubrication Chapter in this manual for Hydraulic Fluid requirements and specifications.

⚠ WARNING

NEVER use your hands to search for hydraulic fluid leaks. Use a piece of paper or cardboard. Escaping fluid under pressure can be invisible and penetrate the skin causing serious injury. If any fluid is injected into your skin, see a doctor at once. Injected fluid MUST be surgically removed by a doctor familiar with this type of injury or gangrene may result.

ALWAYS wear safety glasses when checking for hydraulic fluid leaks. Escaping fluid under pressure can be invisible and can cause permanent eyesight damage or loss if safety glasses are not worn.

6. ALWAYS check for hydraulic fluid leaks after assembling components of the Hydraulic System.

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

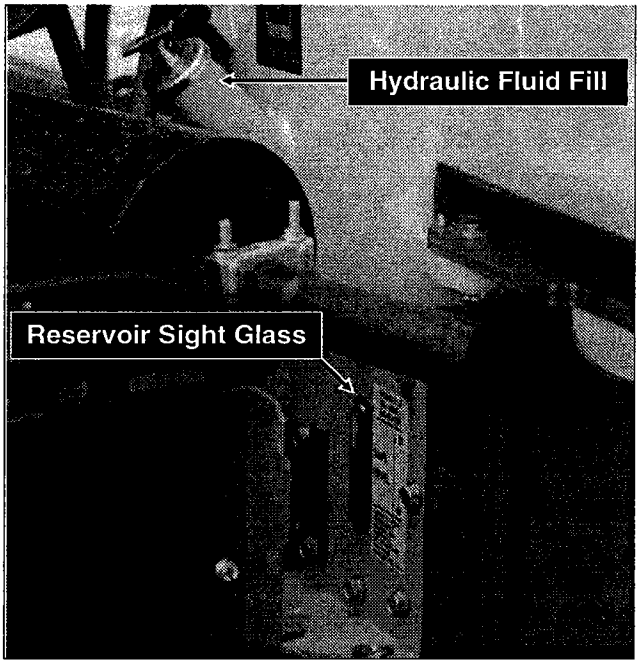


Fig. 6-41 Hydraulic Reservoir Components

9. Reinstall the Chain Case Drain Plug, then refill the Chain Case with oil. Consult the Specifications Chapter for the correct type and quantity of oil.

10. Install the Drive Chain Access Cover using oil resistant RTV sealant (or equivalent), then install the Wheels and Tires.

NOTE: DO NOT overfill the Hydraulic Reservoir. Check the level of fluid in the Reservoir after the Lift Arm is lowered, and after priming the Tandem Pump (see NOTE below). Add or remove hydraulic fluid to obtain the correct level according to the Reservoir Sight Glass. **See Fig. 6-41**

NOTE: After removing and replacing any component in the Hydrostatic Drive System, ALWAYS prime the Tandem Pump by running the Engine at idle for a short time. Drive the Skid Loader slowly forward and backward (with no load) until noise, caused by air in the system, stops. Then, stop the Loader and check the level of Hydraulic Fluid.

⚠ WARNING

NEVER use your hands to search for hydraulic fluid leaks. Use a piece of paper or cardboard. Escaping fluid under pressure can be invisible and can penetrate the skin causing serious injury. If fluid is injected into your skin, see a doctor at once. Injected fluid MUST be surgically removed by a doctor familiar with this type of injury or gangrene may result.

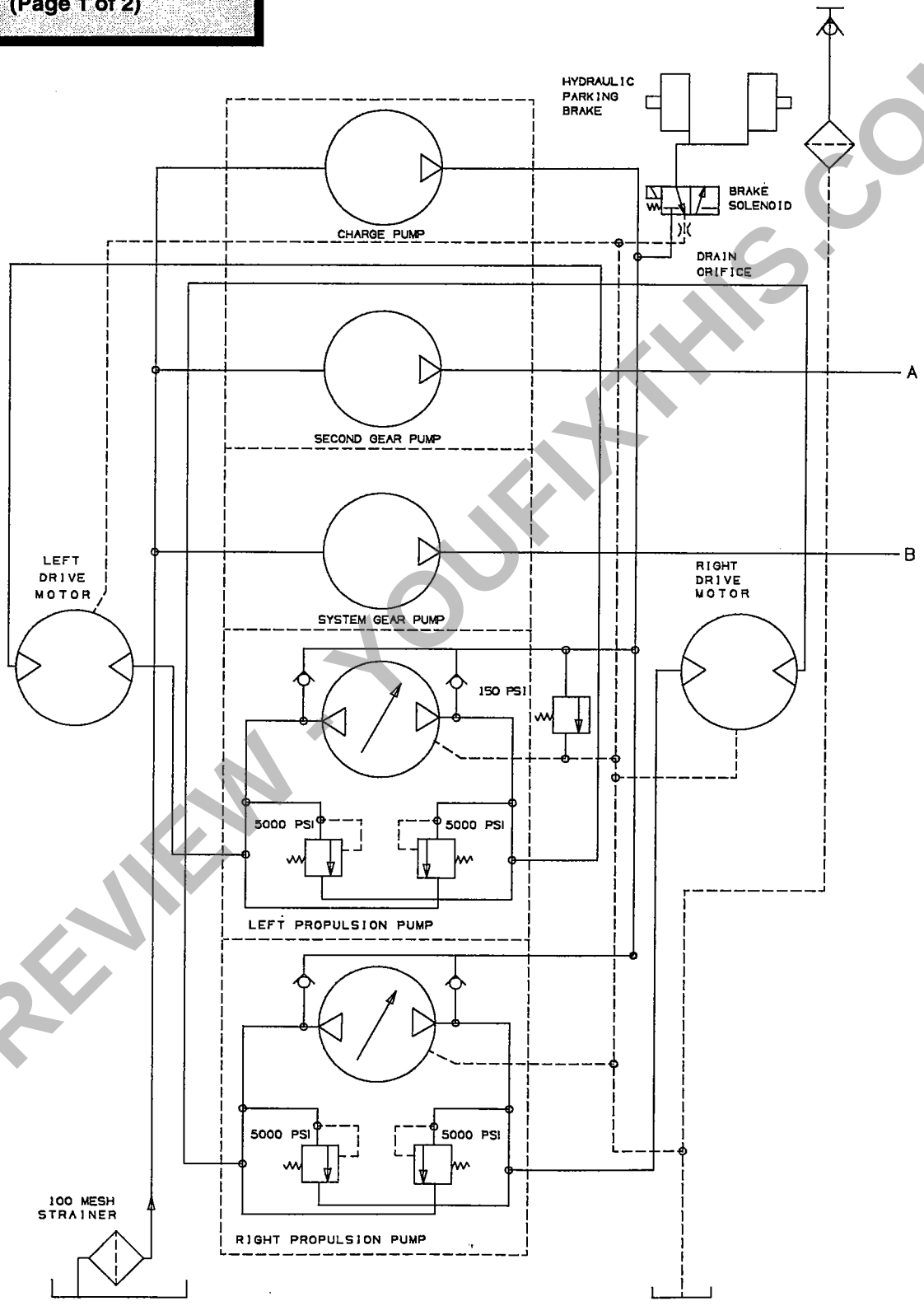
ALWAYS wear safety glasses whn checking for fluid leaks. Escaping f luid under pressure can be invisible and can cause permanent eyesight damage or loss if safety glasses are not worn.

11. ALWAYS check for hydraulic fluid leaks whenever reassembling any component of the Hydrostatic or Hydraulic Systems.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SL4625DX
Hydraulic System Schematic
S/N 19720 & later
(Page 1 of 2)



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

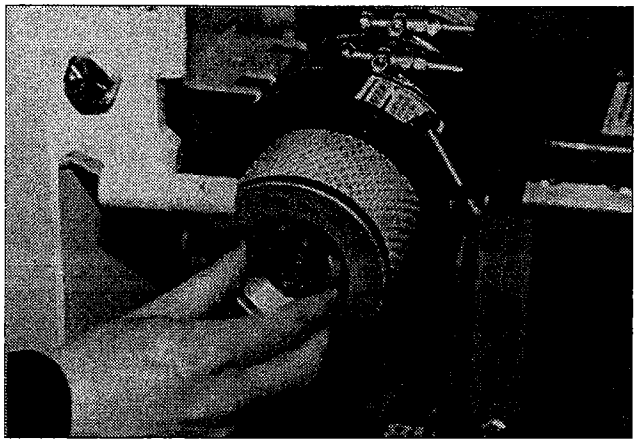


Fig. 11-8 Remove the Primary Filter Element.

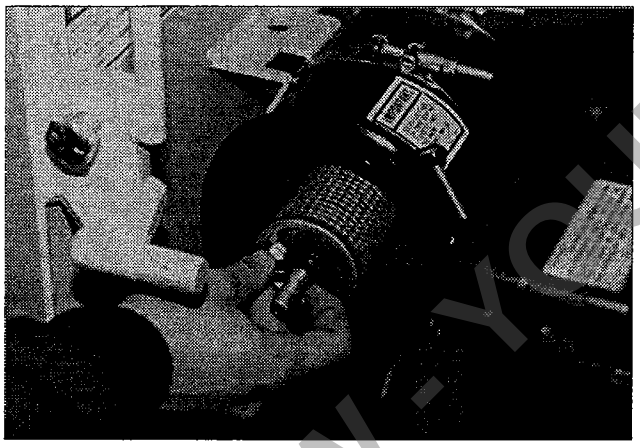


Fig. 11-9 Remove the Secondary Filter Element.

2. Loosen but do not remove the Clamp Band Eyebolt which secures the Element Cover and remove the Cover. **See Fig. 11-7**

3. Remove the Wing Nut which secures the Primary Air Filter Element and slide the Element from the Housing. **See Fig. 11- 8**

   A. On single Filter Element models go to Step 4.

   B. On Dual Filter Element models remove the Wing Nut which secures the secondary Filter Element and slide the Element from the Housing. **See Fig. 11-9**

4. Replace or clean (see NOTE below) the Air Filter Element(s). To clean the Air Filter Primary Element, refer to "Air Filter Element Cleaning" procedure that follows.

5. Install Air Filter Elements in reverse order of removal.

NOTE: The Primary Element on Dual Element Air Filters may be cleaned according to the following procedure.

Air Filter Element Cleaning

The following procedure applies ONLY to the Primary Element on Dual Element Air Filters.

1. Using clean, dry compressed air with a pressure of less than 30 PSIG (210 kPa), blow air up and down the pleats from the inside of the Primary Element.

2. Use a light bulb (from the inside of the Element) to inspect for thin spots, pin holes or ruptures; replace the Primary Element if any damage is noted.

3. If the Element is oil and soot-laden, replace the Primary Element.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Bottom Cover Removal

1. Remove two (2) Cap Screws and Washers located on the rear underside of the Loader and remove the Bottom Cover. **See Fig. 5-64**

Bottom Cover Installation

1. Install the Bottom Cover so that the lip on the front edge of the Cover slips inside the opening on the Chassis.

2. Attach the Bottom Cover to the Chassis with two (2) Cap Screws and Washers. **See Fig. 5-64**

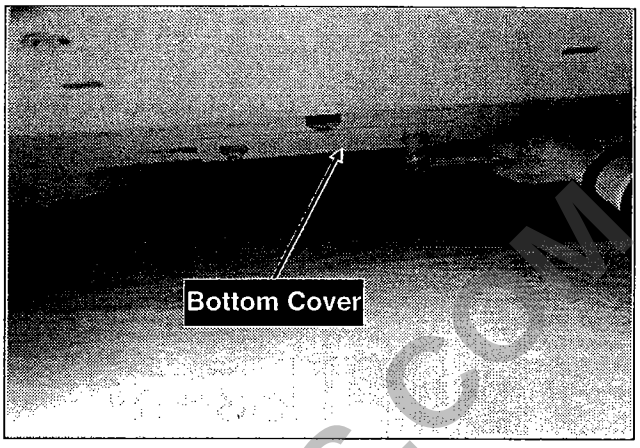


Fig. 5-64 Rear-view of Loader

Fuel Tank Removal

1. Remove the Lift Arms as per the "Lift Arm Removal" procedure in this chapter. Also remove the left-hand Lift Cylinder as per the "Lift Cylinder Removal" procedure in the Hydraulics Chapter.

2. Disconnect the Fuel Hose at the Fuel Filter and COMPLETELY drain the Fuel Tank into a clean approved container. **See Fig. 5-65**

3. Loosen the Fuel Hose Clamp and disconnect the Hose from the Fuel Tank. **See Fig. 5-66**

4. Disconnect the Fuel Return Hose from the Fuel Fitting Elbow and cap the ends to prevent contamination. **See Fig. 5-67**

5. Disconnect two (2) Wires from the Fuel Level Sender. **See Fig. 5-68**

6. Remove the Fuel Tank Clamp. **See Fig. 5-69**

7. After removing the Fuel Cap, use a flat-blade screwdriver to pry the Spill Guard from the Chassis. **See Fig. 5-70**

8. Slide the Fuel Tank up and out the top of the Loader Left Riser.

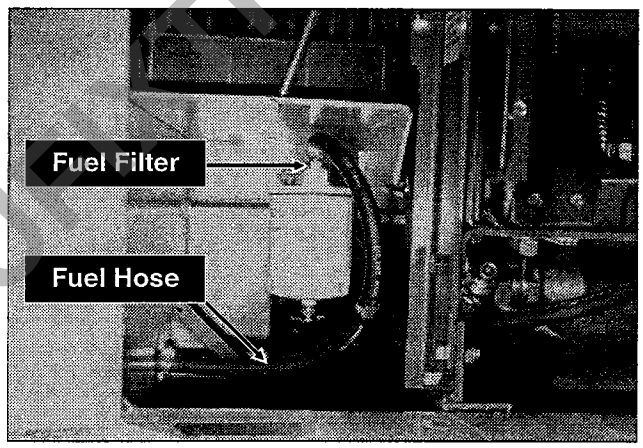


Fig. 5-65 Disconnect the Fuel Hose at the Fuel Filter in order to drain the Fuel Tank.

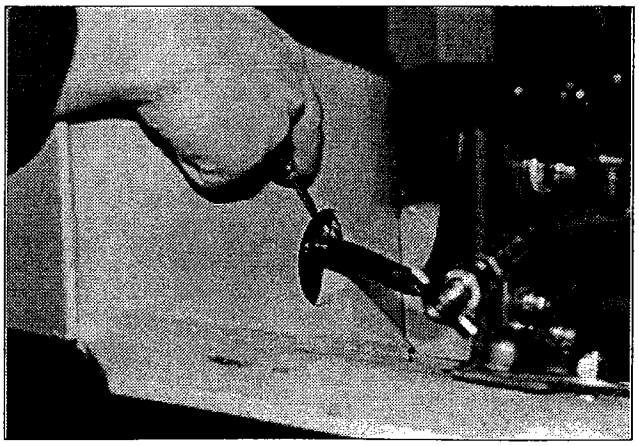


Fig. 5-66 Fuel Hose connection to the Fuel Tank

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Drive 6

Introduction....6-1
Drive Chain Adjustment....6-2
Drive Chain Removal....6-3
Drive Chain Installation....6-4
Axle & Sprocket Removal....6-5
Axle & Sprocket Installation....6-5
Axle & Wheel Bearing Disassembly....6-6
Axle & Wheel Bearing Assembly....6-7
Idler Sprocket & Bearing Removal....6-8
Idler Reassembly and Installation....6-10
Planetary Gearcase Removal....6-12
Planetary Gearcase Installation....6-14
Planetary Gearcase Disassembly....6-16
Planetary Gearcase Assembly....6-19

Controls 7

Introduction....7-1
T-Bar Removal....7-1
T-Bar Installation....7-4
T-Bar Position Adjustment....7-6
T-Bar Tracking Adjustment, Traction Controls....7-8
Left T-Bar Assembly, T-Bar Controls....7-9
Left T-Bar Assembly, Hand / Foot Controls....7-12
Right T-Bar Assembly....7-14
Crosstube Removal, T-Bar Controls....7-16
Crosstube Installation, T-Bar Controls....7-19
Crosstube Removal, Hand / Foot Controls....7-20
Crosstube Installation, Hand / Foot Controls....7-23
Neutral Centering Mechanism Removal....7-25
Neutral Centering Mechanism Installation....7-27
Neutral Centering Adjustment....7-30
Pump Arm Removal....7-32
Pump Arm Installation....7-32
Lift / Tilt Control Removal, T-Bar Controls....7-33

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

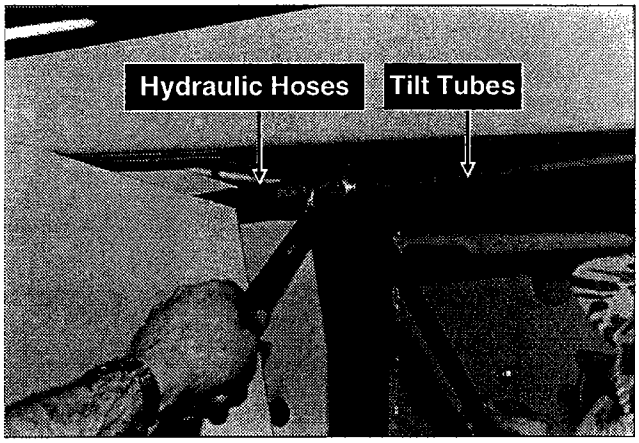


Fig. 5-34 Connect the Hydraulic Hoses to the Tilt Tubes.

4. Connect the inner and outer Tilt Cylinder Tubes to the Hydraulic Hose assemblies. **See Fig. 5-34** If so equipped, attach the Auxiliary Hydraulics Tubes to the Hydraulic hoses on the left-hand Lift Arm according to the markings made at removal. If no markings were made, see **Fig. 9-23** or **9-69** in the Hydraulics Chapter of this manual.

5. Install the Tilt Cylinders on the Lift Arm as per the "Lift Cylinder Installation" procedure found in the Hydraulics chapter of the manual.

6. Install the Quick-Tach Assembly as per the "Quick-Tach Assembly" procedure found in this chapter of the manual.

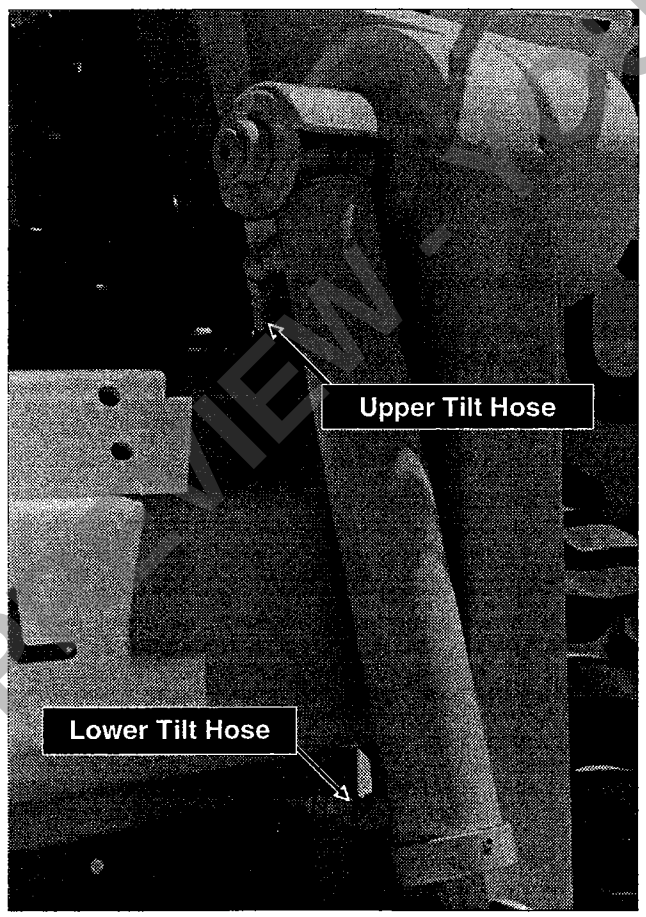


Fig. 5-35 Upper and lower Tilt Cylinder Hoses

7. Connect the Upper Tilt Cylinder Hoses to the 45° elbow on the upper Fittings of the Tilt Cylinder. **See Fig. 5-35**

8. Connect the Lower Tilt Cylinder Hoses to the 45° elbow on the lower Fittings of the Tilt Cylinder, similar to step 7. **See Fig. 5-35**

Procedure continued on following page...

REVIEW.YOUFIXTHIS.COM

Download full manual at youfixthis.com

T-Bar Position Adjustment

The T-Bars can be adjusted in two ways so they are correctly oriented for proper operation. First, T-Bars are normally adjusted so that the Handle shaft is vertical when in a "neutral" position. On T-Bar Control units, the RH T-Bar can also be adjusted for proper handle orientation. **See Fig. 7-17**

Each T-Bar assembly is adjusted in a slightly different way, depending on Loader equipment. The following procedures cover each type of T-Bar for the two different orientation adjustments. Removing the T-Bar Cover (or T-Bar/Pump Cover) is the first step in each procedure (see NOTE below and refer to **Fig. 7-18**).

NOTE: T-Bar and/or Pump Cover removal varies according to the serial number of the Loader. For models ***S/N 19720 & later*** refer to the "T-Bar/Pump Cover Removal & Installation" procedure in the Chassis Chapter of the manual.

⚠ WARNING

BEFORE beginning this service procedure, perform the following SAFETY procedures:

- ❒ **Raise the Lift Arm and Lock it in place.**
- ❒ **Shut down the Engine.**
- ❒ **Roll the Overhead Guard back and lock it in place.**

For detailed instructions on the above, refer to the Safety Chapter of this manual.

1. **LH T-Bar, T-Bar Controls**

   ❒ *Vertical & Handle Orientation* - Adjustment is made by changing the length of one or both of the Take-Up Rods connected at the T-Bar Pivot Assembly. **See Fig. 7-19** Adjust so that Bracket on the bottom of the Pivot Assembly is oriented 90° to the Chassis as shown in **Fig. 7-17.**

Procedure continued on following page...

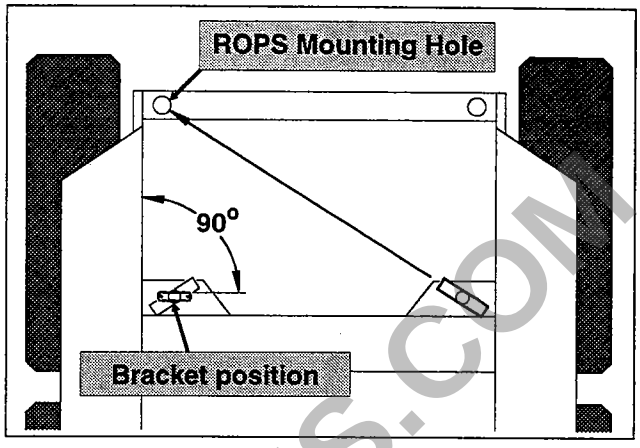


Fig. 7-17 T-Bar orientation, T-Bar control units

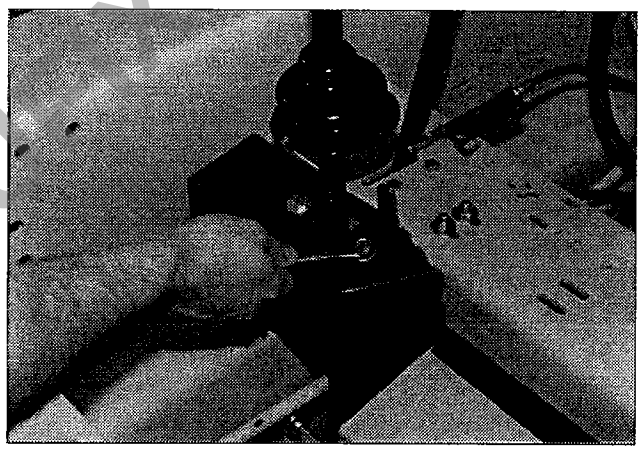


Fig. 7-18 Remove the T-Bar Covers. *Before S/N 19720*

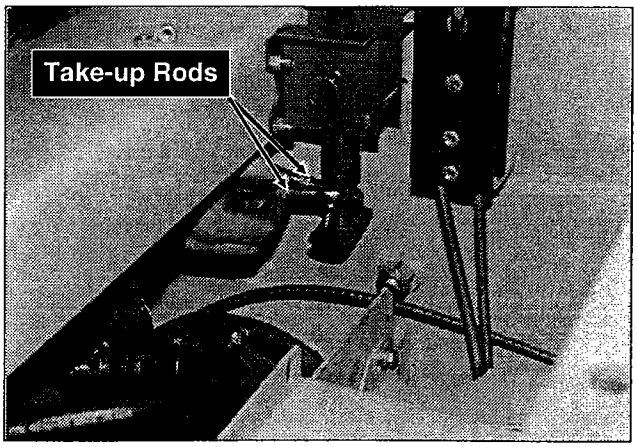


Fig. 7-19 Left-hand T-Bar adjustment on Loader with T-Bar Controls.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

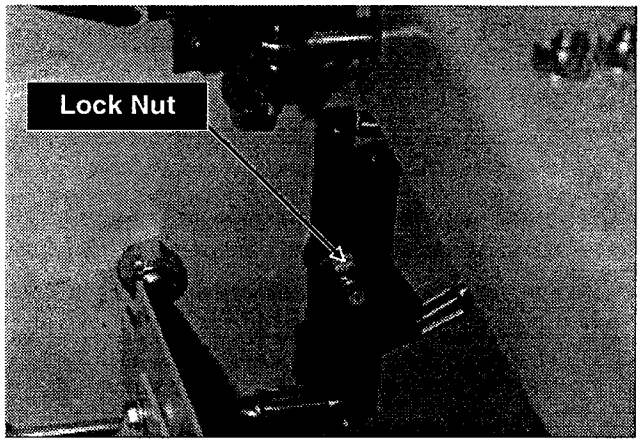


Fig. 7-137 Throttle Link Assembly

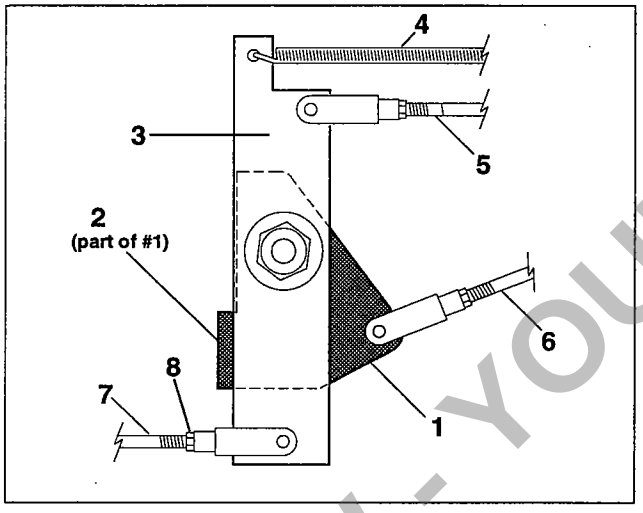


Fig. 7-138 Throttle Link Components

1 - Throttle Link
2 - Throttle Link Stop
3 - Link Lever
4 - Extension Spring
5 - Engine Throttle Cable
6 - Hand Throttle Cable
7 - Foot Throttle Rod
8 - Jam Nut

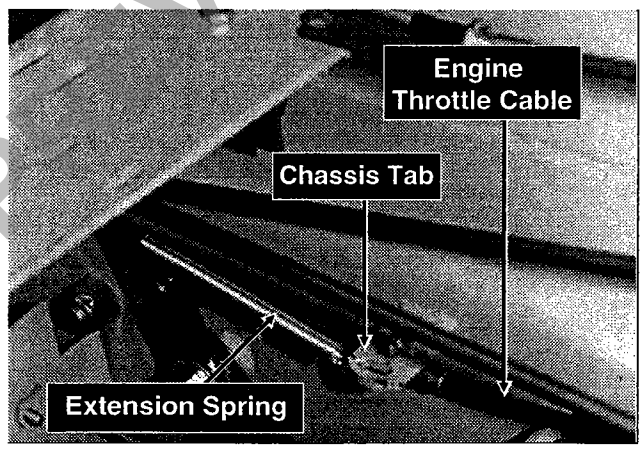


Fig. 7-139 Extension Spring and Engine Throttle Cable attachment

Throttle Link Assembly Installation

T-Bar Controls

NOTE: The following procedure assumes that components of the Throttle Link Assembly have been removed and that proper Safety procedures have been followed. Refer to **Fig. 7-133** and **7-138** for the location and names of Throttle Link Assembly components.

1. With Washers and Spacers as shown in **Fig. 7-133**, put the Throttle Link and Link Lever onto the threaded stud which is welded to the Chassis. Secure the components to the stud with a 1/2" Lock Nut (See **Fig. 7-137**). If Washers and Spacers have been installed correctly, the Throttle Link and Link Lever should be free to pivot with the Lock Nut tightened.

2. Attach the Foot Throttle Rod to the Link Lever with a Spring Clevis Pin. Refer to the "Foot Throttle Installation" procedure in this chapter. **See Fig. 7-138**

3. Attach the Hand Throttle Cable to the Throttle Link with Spring Clevis Pin. Refer to Step 4 of the "Hand Throttle Installation" procedure in this chapter.

4. Fasten the Engine Throttle Cable to the bottom side of the metal Chassis Tab on the Chassis with a U-Clamp and two (2) Lock Nuts. Then, attach the Yoke End to the Link Lever (second hole from the top) with a Spring Clevis Pin as shown in **Fig. 7-138** and **7-139.**

NOTE: Attach the Engine end of the Engine Throttle Cable to the Throttle Pivot Mount by tightening two Nuts on the Cable against the slotted Tab on the Throttle Pivot Mount. Then attach the Yoke End of the Cable to the Throttle Pivot with a Spring Clevis Pin. **See Fig. 7-134**

5. Attach the Extension Spring to the top hole on the Link Lever, then stretch it and attach the other end to the Chassis Tab. **See Fig. 7-139**

6. Refer to the "Throttle Link Adjustment" procedure in this chapter.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

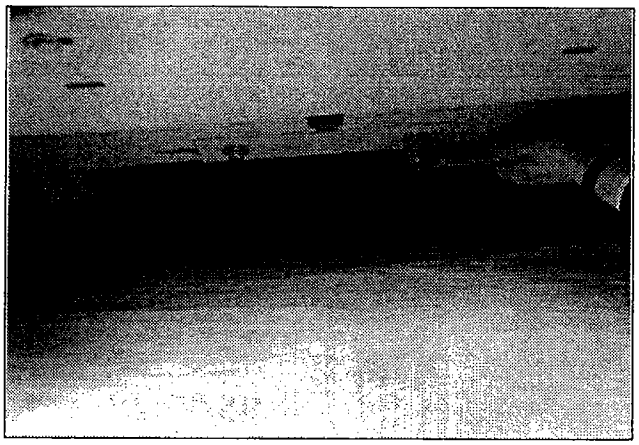


Fig. 8-57 Rear view of Loader showing Bottom Cover

4. Attach the three (3) Hydraulic Hoses to the Drive Motor. On the two (2) larger hoses, be careful to attach them correctly to the Motor based on how they were marked when removed. Also refer to **Fig. 8-68 and 8-69**, and/or the Service Parts Manual, for an illustration of correct hose connection.

5. Reinstall the Parking Brake Cable to the Brake assembly. **See Fig. 8-54**

6. If the Hydraulic Reservoir had been drained, install the Drain Plug and fill with the correct type and quantity of fluid. Refer to the Specifications and Lubrication chapters of this manual.

7. ALWAYS check for hydraulic fluid leaks whenever reassembling any component of the Hydrostatic or Hydraulic Systems.

NOTE: After removing and/or replacing any component in the Hydrostatic Drive System, ALWAYS prime the Tandem Pump by running the Engine at idle for a short time. Drive the Loader slowly forward and backward (with no load) until noise, caused by air in the system, stops. Then, stop the Loader and recheck the level of Hydraulic Fluid in the Reservoir. Add Fluid if necessary.

⚠ WARNING

NEVER use your hands to search for hydraulic fluid leaks. Use a piece of paper or cardboard. Escaping fluid under pressure can be invisible and can penetrate the skin causing serious injury. If any fluid is injected into your skin, see a doctor at once. Injected fluid MUST be surgically removed by a doctor familiar with this type of injury or gangrene may result.

ALWAYS wear safety glasses when checking for hydraulic fluid leaks. Escaping fluid under pressure can be invisible and can cause permanent eyesight damage or loss if safety glasses are not worn.

8. Replace the Bottom Cover and re-attach with two (2) Cap Screws. **See Fig. 8-57**

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Lift / Tilt Control Valve Removal

The Lift/Tilt Control Valve is located on the right-hand side of the Chassis. Depending on Loader equipment, refer to **Fig. 9-15**, **9-16**, **9-25**, and **9-72** which illustrate Hydraulic System component connections to the Lift/Tilt Control Valve.

⚠ WARNING

BEFORE beginning this service procedure, perform the following SAFETY procedures:

- ❒ **Raise the Lift Arm and Lock it in place.**
- ❒ **Shut down the Engine.**
- ❒ **Relieve Hydraulic System pressure.**
- ❒ **Roll the Overhead Guard back and lock it in place.**

For detailed instructions on the above, refer to the Safety Chapter of this manual.

1. Disconnect two (2) Lift/Tilt Control Rods from the Control Valve by removing Cotter Pins and Clevis Pins. **See Fig. 9-68**

2. If necessary (see NOTE below), drain the oil from the Hydraulic Reservoir. **See Fig. 9-69** Refer to the Hydraulic Chapter for details on draining Hydraulic oil.

NOTE: If Hydraulic Hoses and Tubes are properly plugged after removal to prevent oil leakage, it should not be necessary to drain the Hydraulic Reservoir. As a minimum, BE SURE to cap ALL Hydraulic Hose and Tube fittings after removal to prevent introduction of contaminants into the Hydraulic System.

To allow for simple and correct reassembly, make notes on the connection of Hydraulic Hoses and Tubes to the Control Valve BEFORE removal. Mark Hoses and Tubes as needed.

3. Disconnect all Hydraulic Hoses and Tubes from Fittings on the Control Valve. Fittings can be left attached to the Valve. It may be necessary to remove some Tubes completely in order to allow removal of the Valve. **See Fig. 9-70**

4. Remove three (3) Cap Screws and Lock Nuts that secure the Control Valve to the mounting bracket. **See Fig. 9-70** Then remove Valve from the Chassis. **See Fig. 9-71**

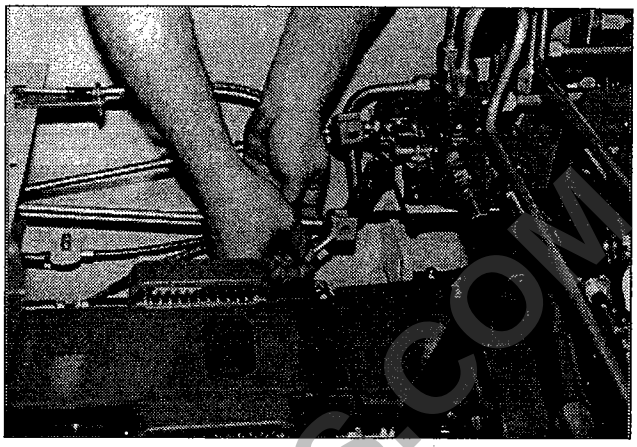


Fig. 9-68 Lift and Tilt Control Rod locations. (T-Bar unit shown)



Fig. 9-69 Hydraulic Reservoir Drain location at rear of Loader

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

NOTES

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 306 pages

The full manual includes:

- All 306 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Gehl 4625 Shop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual