



Operation and Maintenance Manual

SH150 Shield Trailer

Serial Number JES00547

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

Store fuels and lubricants in properly marked containers away from unauthorized personnel. Store oily rags and flammable materials in protective containers. Do not smoke in areas that are used for storing flammable materials.



Illustration 6

Use caution when you are fueling a machine. Do not smoke while you are fueling a machine. Do not fuel a machine near open flames or sparks. Always stop the engine before fueling. Fill the fuel tank outdoors. Properly clean areas of spillage.

Never store flammable fluids in the operator's compartment of the machine.

Fire Extinguisher

Know the location of your fire extinguishers on the prime mover. Be familiar with the operation of the fire extinguisher.

Inspect the fire extinguisher and service the fire extinguisher regularly. Follow the recommendations on the instruction plate.

Fire Safety

The underground operation of this machine in a coal mine is a potentially hazardous situation. Methane gas that is expelled by mining coal can be extremely deadly if an open flame is present.

If you find that you are involved in a machine fire, your safety and that of others on site is the top priority. Remember, if you are unable to do anything else, shut off the prime mover before exiting the operator's compartment and engage the parking brake.

Electrical Storm Injury Prevention

If the machine is above ground and lightning is striking in the vicinity of the machine, the operator should never attempt the following procedures:

Mount the machine.

Dismount the machine.

If you are on the ground during an electrical storm, stay away from the vicinity of the machine.

Hazard Sources

Always be aware of the hazard sources on the prime mover and the trailer:

- Engine coolant temperature.
- Engine coolant pressure.
- Engine exhaust temperature.
- Rotating radiator fan.
- Spinning engine auxiliary drives and belts (ex: drive belt for the water pump).
- Stored hydraulic pressure.
- Stored air pressure in the air receiver.
- Engine oil temperature.
- Engine oil pressure.
- Transmission oil temperature.
- Articulation areas.
- Lift arm area.
- Machine size and mass.
- Unplanned trailer movements.

General Operational Safety Precautions

Only trained and authorized operators should operate this equipment or trainees under an appointed trainer.

- Do not allow anyone to ride in or on any part of the trailer during operation.
- Do not use the trailer for anything other than its intended purpose.

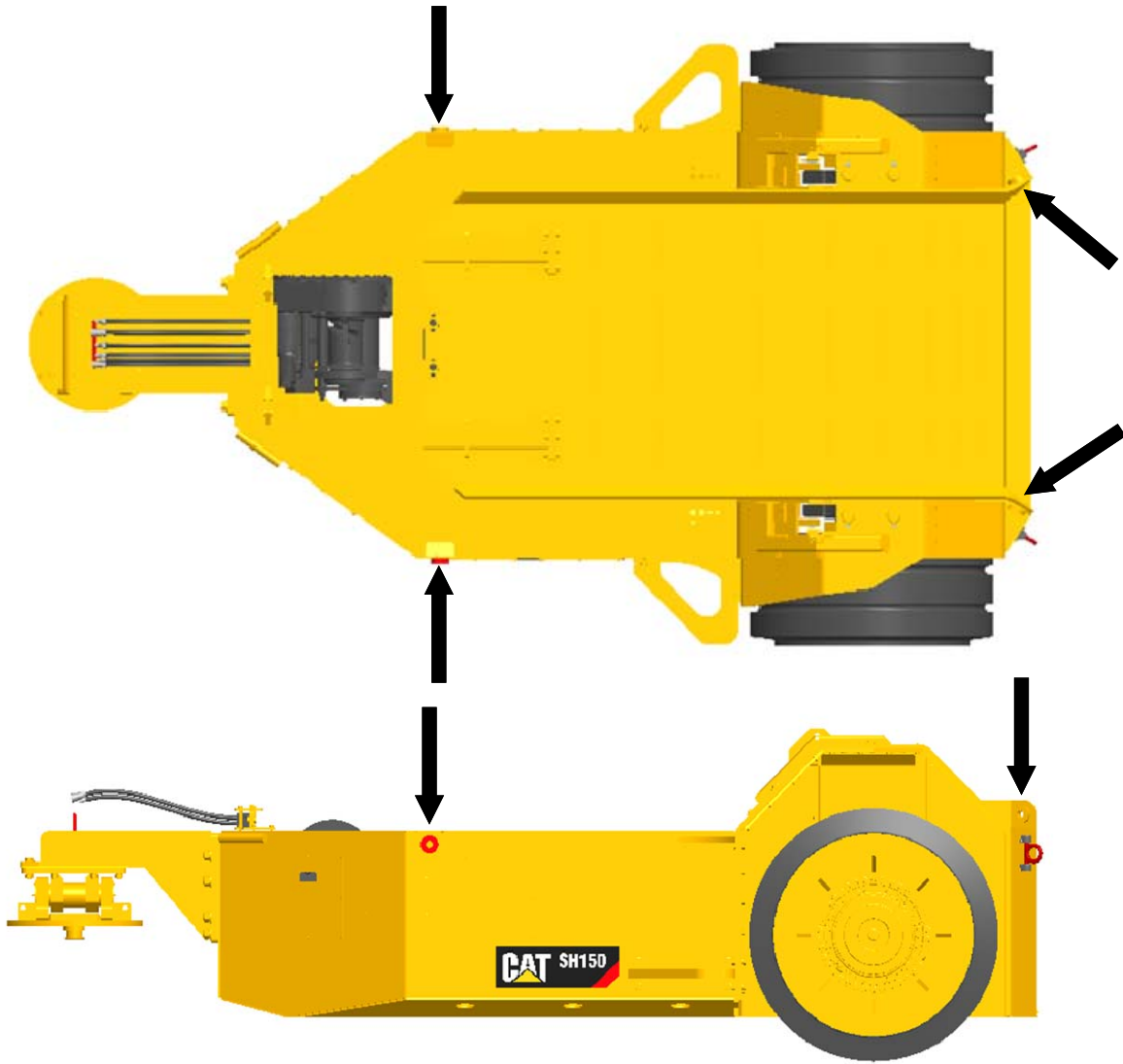


Illustration 15

Trailer Lifting Points Diagram



Illustration 42

6. Identify the attachment connections (terminals) on the utility vehicle (CL210 shown in images) on each side of the RAS (Illustration 43, 44).



Illustration 43

- 1) Terminal 1



Illustration 44

- 1) Terminal 2
7. Locate the hose connection nameplate on the SH150 above the hose manifold.
8. On Terminal 1, always make sure that the case drain is the first hose to be hooked up to the trailer, followed by actuating the pressure relief on the trailer.
9. The brake, extend and retract hoses are the remaining hose connections on Terminal 1 (Illustration 45).
10. Terminal 2 contains the pilot and raise hose connections (Illustration 46).



Illustration 45

- 1) Brake
2) Case Drain
3) Extend
4) Retract



Illustration 75

Power Assist PTOs

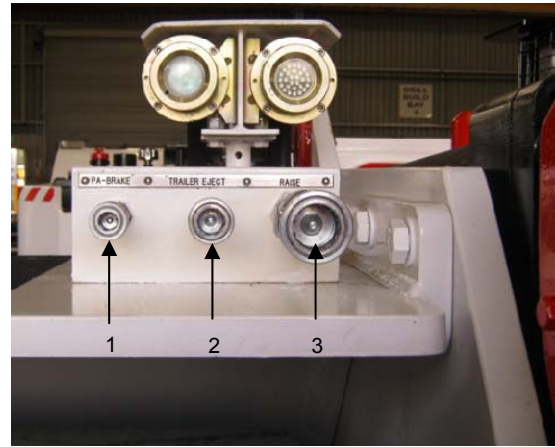


Illustration 77

Off Driver's Side Wheel Guard

- 1) Brake Head
- 2) Eject
- 3) Raise

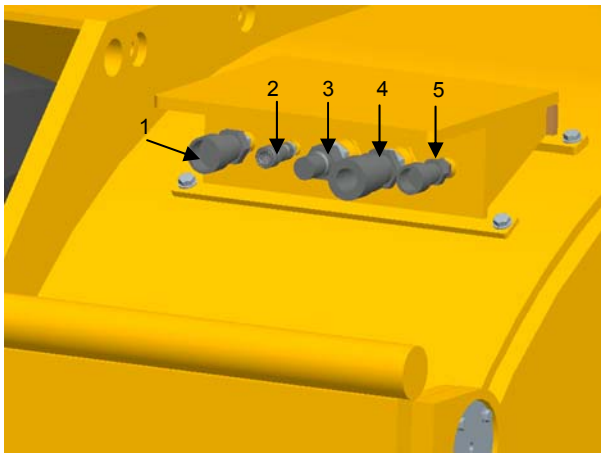


Illustration 76

- 1) Clutch
- 2) Brake Head
- 3) Motor Port A
- 4) Motor Port B
- 5) Traction Motor Case Drain

On the SH660, the hydraulic ports to accommodate the SH150 Power Assist trailer are located above the wheel guards.

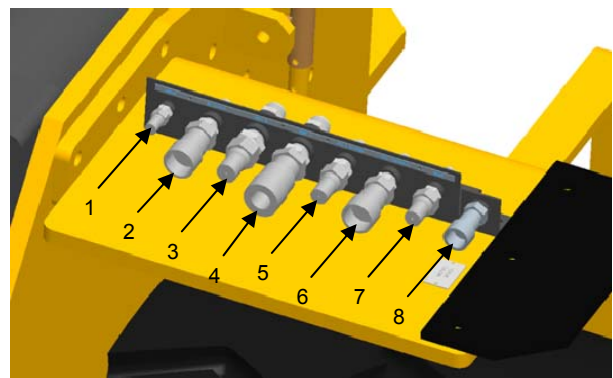


Illustration 78

Driver's Side Wheel Guard

- 1) Case Drain
- 2) Clutch
- 3) Motor Port B
- 4) Motor Port A
- 5) Extend
- 6) Retract
- 7) Brake
- 8) Traction Motor Case Drain

Imperial

Use the following chart to determine torque ranges for imperial fasteners. (UNC)

Table 6

Recommended Torque Range for Imperial Capscrews				
Nominal Size	Grade 5		Grade 8/Socket Head	
	(Nm)	(ft-lbs)	(Nm)	(ft-lbs)
1/4	9	6.5	13	9.5
5/16	19	14	26	19
3/8	32	24	46	34
7/16	52	38	73	54
1/2	80	60	110	82
9/16	113	83	160	117
5/8	155	115	220	160
3/4	275	203	388	286
7/8	440	325	620	460
1	660	488	930	687
1-1/8	815	600	1320	974
1-1/4	1137	840	1840	1360
1-3/8	1500	1106	2430	1970
1-1/2	1980	1460	3200	2360

Winch Rope Assembly

The winch rope is mounted to the winch rope drum via a clamp that is mounted on the drum and is tightened with two bolts (torque to 41 Nm). The drum is grooved so that the clamp bolts do not protrude above the surface of the drum and to allow additional wraps on the first layer of the drum.

Care and Maintenance

Daily:

1. Visually inspect rope clamp for security and damage.
2. Check the rope for any sign of damage (bending or tearing).
3. Ensure the winch rope guide rollers are free to turn.
4. Ensure that the rope clamp on the drum is sitting below the surface of the drum to prevent the bolt heads from damaging the winch rope.

Servicing

Refer to the Maintenance Interval Schedule.

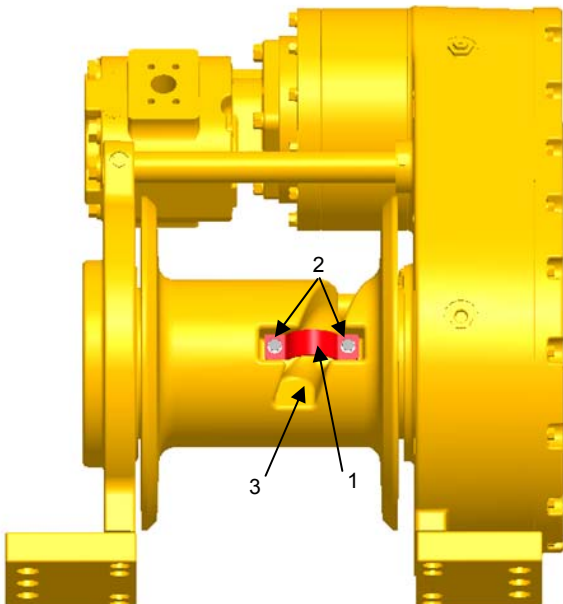


Illustration 116

- 1) Winch Clamp Plate
- 2) Clamp Plate Bolts
- 3) Drum Groove

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL