



EM012901  
Revision No 1  
27 January 2016



# Operation Manual

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## SH640 D Roof Support Carrier

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Serial Number 5004087

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## SAFETY LABELS AND INSTRUCTIONS

This manual contains important information affecting the safety of personnel and the equipment being used.

The safety instructions and behavioural rules are intended to protect operators from potentially dangerous situations and assist in the safe operation of the trailer and associated equipment.

The following symbols are used with safety instructions and identify varying degrees of hazardous conditions.

The safety instructions associated with these symbols are to be considered the minimum requirements for effective hazard and operational control.



**DANGER**

Points in the text marked with this symbol draw attention to immediately impending danger. Possible consequences are very serious or fatal injury.



**WARNING**

These points contain information on potentially dangerous situations. Possible consequences are very serious or fatal injury.



**CAUTION**

This symbol draws attention to potentially dangerous situations. Possible consequences are light to moderately serious injury and machine damage.



**NOTICE**

Points in the text marked with this symbol draw attention to potentially harmful situations. Possible consequences are damage to machine or equipment in immediate vicinity



**IMPORTANT**

Text marked with this symbol contains useful information associated with the machine and its application.

## STEERING WHEEL

The steering wheel controls the flow of hydraulic oil to the steering cylinder via an orbital steering valve. As the cylinder strokes, the machine articulates to the *left* or to the *right*.

Turning the wheel *anti-clockwise* articulates the machine towards the operator. This effectively turns the machine to the *left* in the forward direction (lift arms end).

Turning the wheel *clockwise* articulates the machine away from the operator. This effectively turns the machine to the *right* in the forward direction (lift arms end).



**NOTICE**

The machine will turn in the opposite directions when travelling in forward and reverse. Operator training and familiarity with Roof Support Carrier operation is important to ensure that collisions are avoided.



**NOTICE**

If the engine should stall, the machine is fitted with a system that will begin to dump the steering pressure. This allows the operator time to steer the machine via a 6 litre back up accumulator following an engine stall to bring the machine to a safe controlled stop.



**NOTICE**

If the door is opened or the park brake is applied, the machine is fitted with fail-safe steering system that will immediately begin to dump the steering system pressure. This is to protect the operator or personnel from being crushed in the articulation area. Steering cannot be used until the door is shut and latched and the park brake button pulled out to the released position.



STEERING WHEEL



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## Section 6

### Pre-Start Procedure

Walk around the machine:

1. Ensure the area is clear of any obstructions and the area is fit for carrying out safe operation and maintenance.
2. Check condition of all tyres. Inspect for sidewall cuts, tread cuts and separation.
3. Look for damaged or missing wheel nuts and studs.
4. Check for loose wheel nuts.
5. Guards and covers are in place and secure.
6. Missing or loose bolts.
7. Check for oil leaks.
8. Check for hose damage.



**WARNING**

**Never start or operate the machine if the diesel control system has been bypassed, report to service personnel.**



**WARNING**

**Always ensure the machine is correctly isolated before undertaking any tasks.**

Check the hydraulic tank oil level:

1. Be sure the machine is on a level surface when checking oil level.
2. Ensure the lift arms are in the lower position, the engine is turned off and the machine is isolated as per Section 5 Pneumatic Isolation.
3. Check the level at normal operating temperature.
4. When the oil level has dropped below the mark shown below, add hydraulic oil to restore the correct operating level.
5. The tank fill cap is located on the off driver's side of the machine on the top of the hydraulic tank.

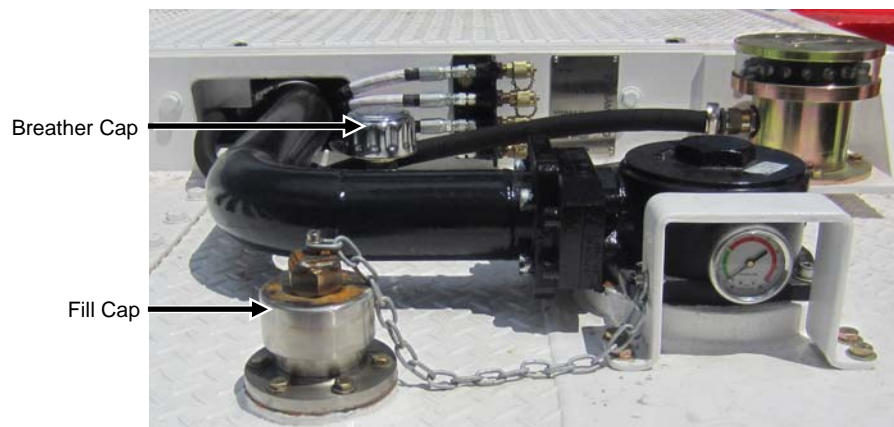


**CAUTION**

**Always use the specified fuel for the application and the region's seasonal temperatures. (See Section 21).**



**HYDRAULIC LEVEL  
SIGHT GAUGE**



**WARNING**

Excessive use of starting fluid can cause serious backfire and violent explosions within the engine. Serious engine damage may occur. Avoid the use of starting aids and **DO NOT** use starting fluid (Aerostart) underground

**WARNING**

The steering and brake pressure gauges register in the normal operating range only when the park brake is released.

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## Section **12** Driving on a Ramp

1. Stop and shift into first gear, and check the brakes before travelling up or down a ramp.
2. Always use a low gear when travelling down a ramp.
3. Avoid changing gears while travelling on a steep ramp.
4. If you have a mechanical or brake failure:
  - a. Immediately apply the brakes.
  - b. If the brakes do not function, apply park brake.
  - c. If the machine does not stop, turn the machine into the rib.

**WARNING**

**The machine should not be operated on more than the recommended grades (Section 1).**

**NOTICE**

**Operators must be competent in Emergency Stop Procedure (Section 11).**

**WARNING**

**Always be aware of the impact of the payload on the visibility available to the operator. The recommended maximum speed when loaded is 10 km/h, however, the impact of the payload on the operator's field of vision must be considered when operating the machine with payload. Drive to the conditions.**



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