



XR5519



**OPERATOR'S
MANUAL**

Part Number 157-0070-000
August 2017

PROTOTYPE

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Warning



Wear appropriate protective clothing. Personal protective equipment can include, but is not limited to hardhat, gloves, footwear, safety glasses or goggles, and hearing protection. Make sure clothing is snug and properly belted. **DO NOT** wear loose clothing, jewelry, watches, or anything that can catch on forklift controls, moving parts, etc. Failure to wear the proper protective clothing could result in death or serious injury.

Before Starting Forklift

Warning



Keep the Operation and Safety Manual on the forklift at all times. Contact Snorkel Manufacturing for replacement manuals.



Clearly define responsibilities and procedures for operating the forklift and all attachments. **DO NOT** proceed until seeking expert assistance from a qualified person if any doubt or question arises about the correct or safe methods for operating the forklift.



To avoid death or serious injury, carefully read and understand all instructions before operating the forklift. **DO NOT** operate, modify, repair, or maintain the forklift without reading and understanding the instructions and warnings in this and all other applicable manuals and technical publications. Follow all State and Federal health and safety laws and/or local regulations.



Consult Material Safety Data Sheets (MSDS) for chemical hazards and first aid instructions. MSDS should be available from the manufacturer or supplier of the fluid.

Warning



Perform a pre-operation inspection and functional tests at the beginning of each work shift. Perform the pre-operation inspection first. **DO NOT** perform the pre-operation inspection with the engine running or hot. Allow the engine and associated components to cool before performing an inspection. Contact with moving or heated parts could cause death or serious injury.



Perform the pre-operation inspection and functional tests in an open area and away from any other obstacles or equipment. Inspections and functional tests may require assistance. Keep the assistant visible and a safe distance from the forklift to prevent death or serious injury.



Become familiar with all safety and hazard labels, regulations, and procedures. Make sure all proper safety and hazard labels are attached to the forklift and remain legible.



A brief description of controls, indicators, and instruments is provided as a convenience for the operator. These descriptions **DO NOT** provide complete operation instructions. Read and understand the entire manual to prevent death, serious injury, or equipment damage.



Keep fingers and feet away from moving parts or pinch points to prevent pinching or crushing. **DO NOT** allow anyone between the tires and the forklift frame while operating the forklift. Doing so can result in death or serious injury.

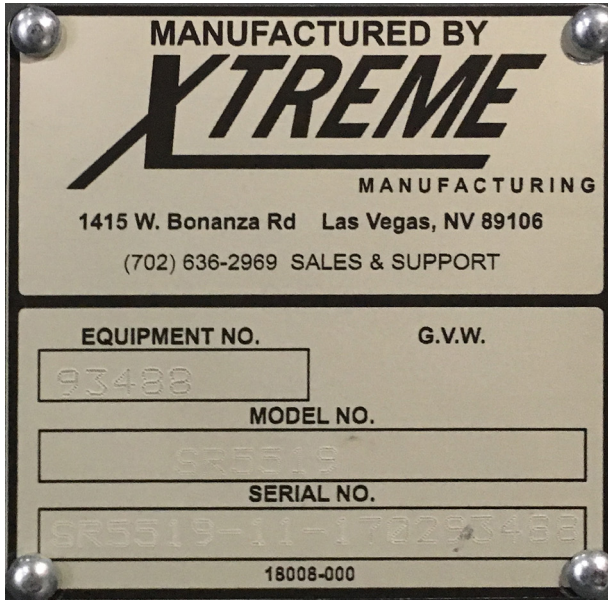


Always check the condition of the seat belt and mounting hardware before operating the forklift. If the seat belt or mounting hardware is defective, it may not properly restrain the operator, resulting in death or serious injury.

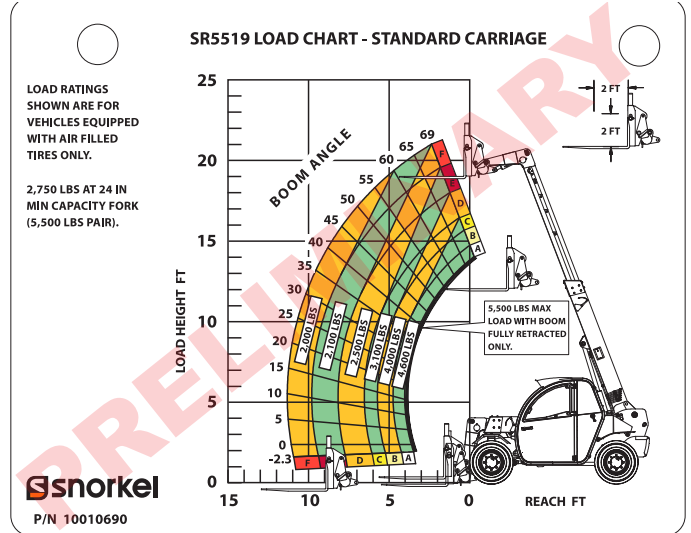
- **DO NOT** operate the forklift until the seat belt or mounting hardware is replaced, if worn or damaged.
- The seat belt **MUST** be worn while operating the forklift. Failure to wear the seat belt could result in death or serious injury.

Replacement Labels

Replacement labels can be obtained by contacting Snorkel Manufacturing at (800) 497-1704. Please have the appropriate label number available when you call.



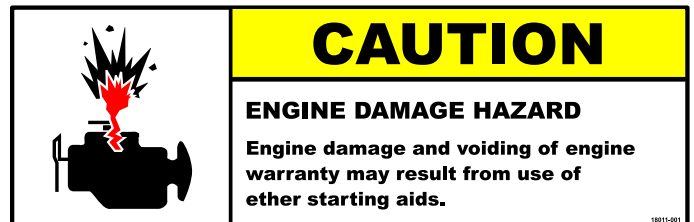
1) 18008-000



2) 10010690



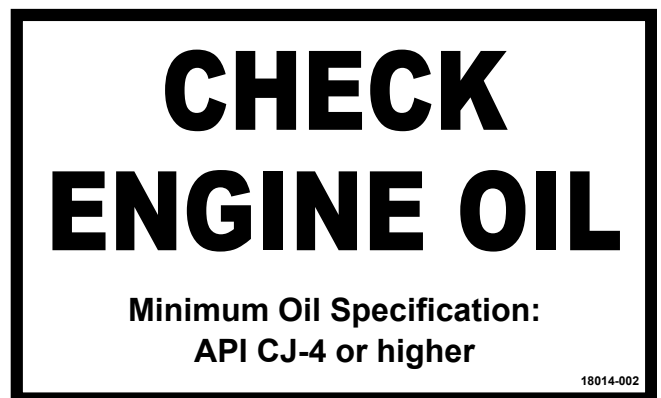
3) 18010-100



4) 18011-001



5) 18013-002



6) 18014-002

Service Brake Pedal

Press the service brake pedal to slow or stop the forklift. The service brake pedal activates the service brakes on the front (2) wheels.



Fig 13. Service Brake Pedal

Steering Wheel

Turn the steering wheel left or right to steer the forklift in the corresponding direction.



Fig 14. Steering Wheel

Horn Button

Press the horn button to sound the horn.



Fig 15. Horn Button

Operator Seat

Operator Seat Controls

The operator seat can be adjusted two (2) ways: fore and aft, and backrest angle.



Fig 16. Operator Seat

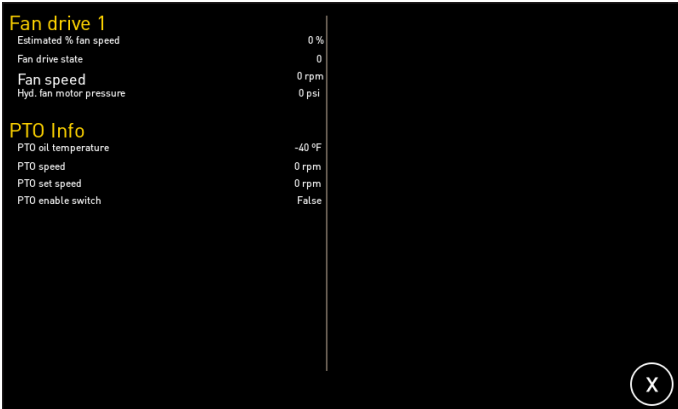


Fig 48. Engine Status, Page 3

MVEC FUSE SCREEN

Select this option to view the status of the Multiplexed Vehicle Electrical Center (MVEC) fuse panel.

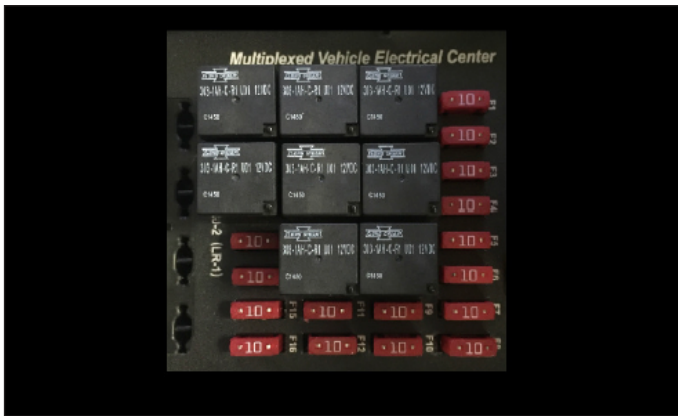


Fig 49. MVEC Fuse Screen

MVEC RELAY SCREEN

Allows for viewing the status of the MVEC relay panel.

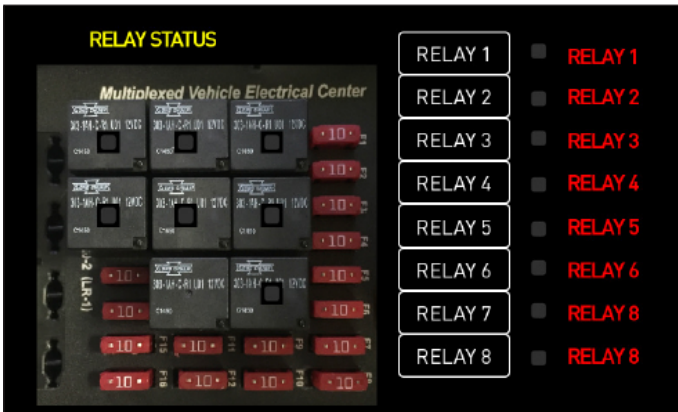


Fig 50. MVEC Relay Screen

DAY/NIGHT MODE

This touch button allows for selecting the brightness of the screen: brighter, appropriate for day operation or dimmer, for operating the machine at night.

MACHINE OPERATION MANUAL

This touch button allows for viewing of all the available operation and instructional documentation related to the current machine.

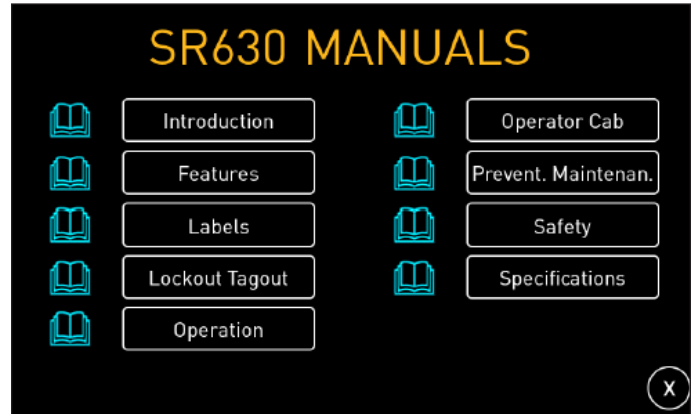


Fig 51. Instructional On-Screen Manuals

ON-SCREEN LOAD CHART

Besides the printed load chart attached to the front control console, the load chart can be viewed on-screen by selecting the "Labels" option and then navigating to the available load charts.

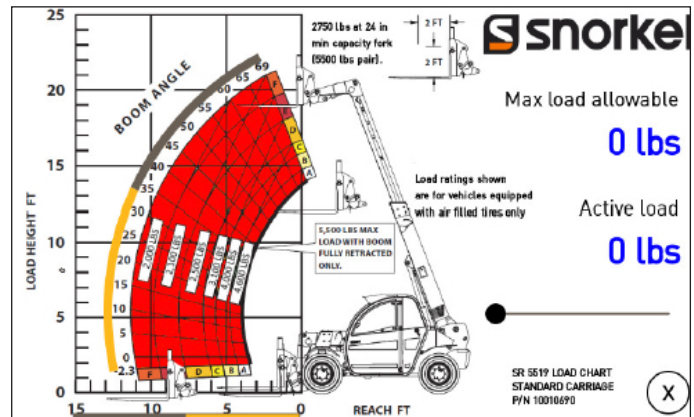


Fig 52. On-Screen Load Chart

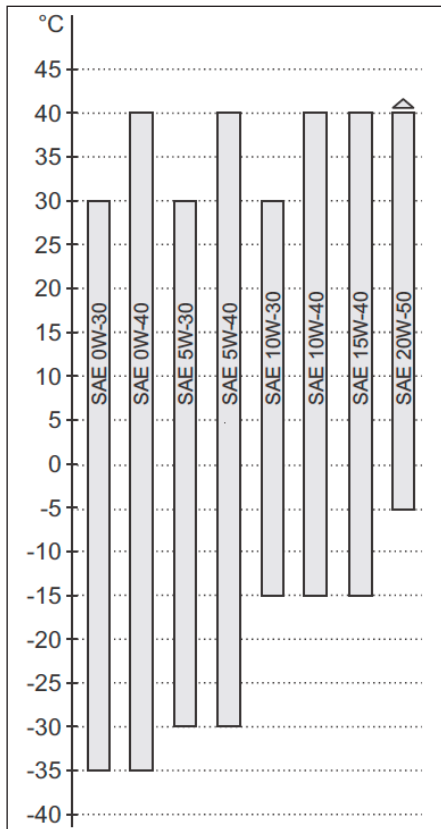
In principle, all engine oils of the same specification can be mixed. However, mixing of engine oils should be avoided because the worst properties of any of the components in the mixture are always dominant, affecting the result.

The following lubricating oils are permissible for the engine in this operating manual:

Engines without exhaust aftertreatment system	
DQC II	Please contact your DEUTZ partner
DQC III	
DQC III LA *	
DQC IV	
DQC IV LA *	
* Sulphur content in the fuel < 15 mg/kg	

The ambient temperature at the installation site or in the application area of the engine is decisive for choosing the right viscosity class. Too high a viscosity can lead to starting difficulties, too low a viscosity can endanger the lubrication effect and cause a high lubricating oil consumption.

Depending on the ambient temperature, the following common viscosity classes are recommended:



Check the engine oil level by pulling out the yellow oil dipstick handle (A), located adjacent to the fuel filter can. Unscrew the oil fill cap (B) and add engine oil (API CJ-4), if necessary.

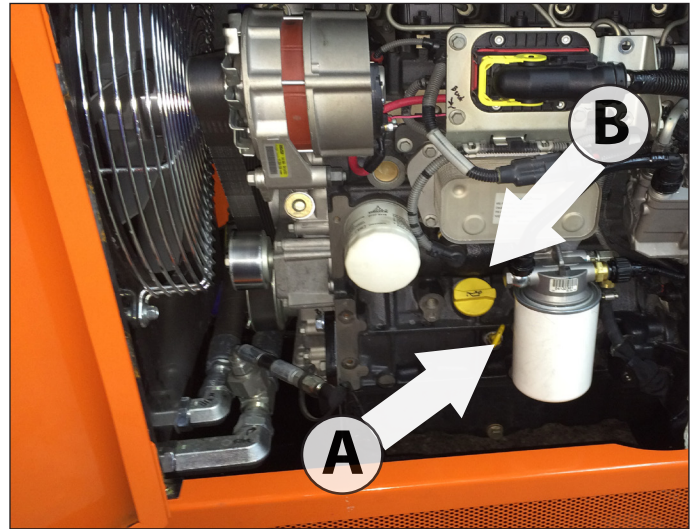


Fig 67. Engine Oil Level Dipstick (A) and Oil Fill Cap (B)

Check the battery, the case and the battery terminals.

Warning



Lead-acid batteries produce flammable and potentially explosive gases. To avoid death or serious injury when checking, testing, or charging batteries:

- DO NOT use smoking materials near batteries.
- Keep arcs, sparks, and open flames away from batteries.
- Provide ventilation for flammable vapors.
- Wear proper personal protective equipment, including safety glasses.

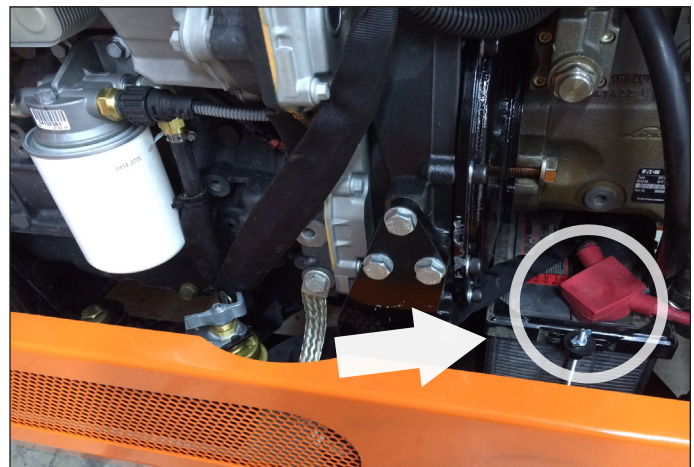


Fig 68. Battery and Terminals

Attachment Removal

NOTE: To remove a standard carriage with forks, spread the forks apart on the carriage shaft. This provides adequate support for the carriage to stand alone.

1. Bring the forklift to a complete stop.
2. Move the travel select lever to NEUTRAL (N).
3. Set the parking brake switch to ON (engaged).
4. Extend the boom approximately 18 to 20 inches (0.46 to 0.5 meters).
5. With attachment 10" to 12" off of the ground, tilt the attachment backward.
6. Disconnect the quick attach couplers (this only applies to attachments with a quick attach hydraulic system).



Fig 81. Disconnect Quick Attach Couplers

7. Remove the quick attach pin keeper.

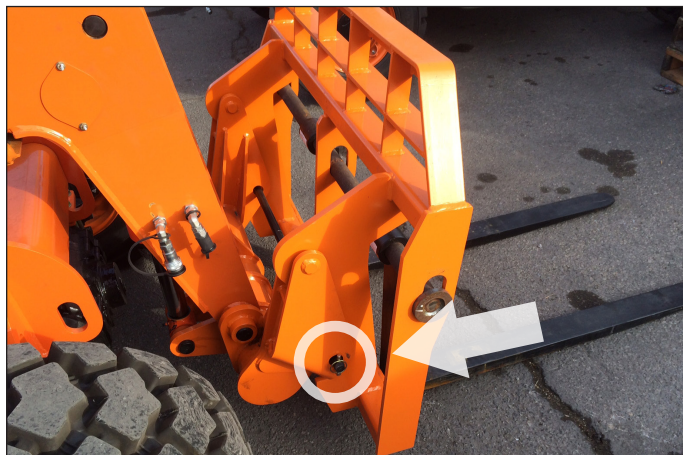


Fig 82. Remove Quick Attach Pin Keeper

8. Remove the pin at the bottom of the adapter.

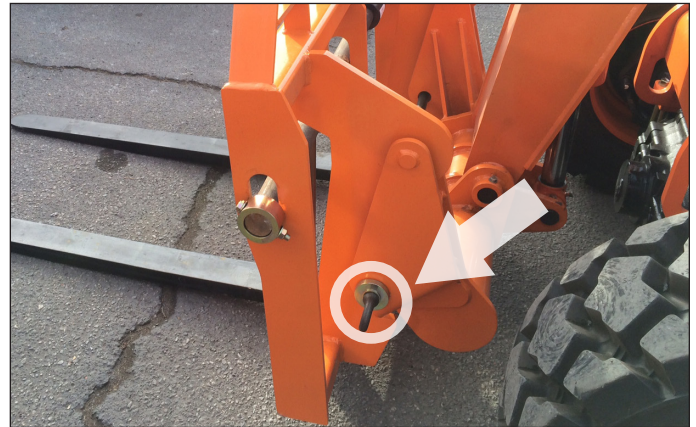


Fig 83. Remove Pin from Attachment

9. Lower the attachment to the ground in a level position.



Fig 84. Lower Attachment to Ground in Level Position

10. Tilt and lower boom until pivot pins (A) have disconnected from attachment hooks (B).

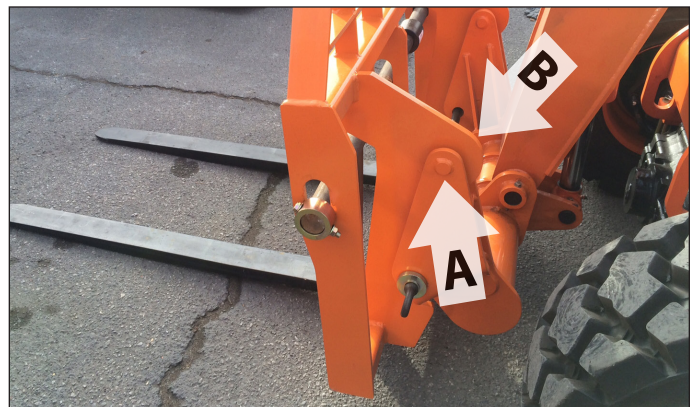


Fig 85. Pivot Pins and Attachment Hooks

11. Retract the boom to fully disconnect the attachment from the quick attach adapter.

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