

TA Series Air Winches

Lubricating the Winch

Important!

Increase the frequency of maintenance procedures if the winch is:

- · Operated for long periods.
- Used to pull heavy loads.
- Operated in wet, dirty, hot or cold surroundings.

Important!

- Do not leave plug holes in the reducer or motor open. Open plug holes will allow dirt and moisture to contaminate the lubrication.
- Make sure lubricant has a temperature rating appropriate for the ambient temperatures of the operation.
- Lubricate the winch properly to help protect it from wear and rust. Read the following instructions carefully.

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Make sure the breather plugs are clean and open to vent heat and pressure. Poor ventilation will cause overheating and result in damage to oil seals and other equipment.

Fill the reducer, disc brake and motor to the proper level without overfilling. Too much or too little lubricant will cause overheating and result in damage to equipment.

For shipment, the winch motor, disc brake and reducer are filled with lubricant and motor breather and disc brake plug(s) installed.

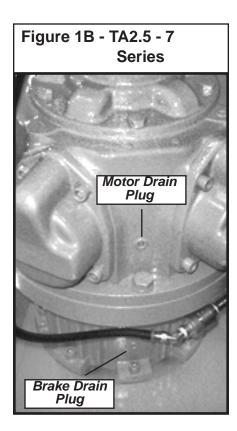
- 1.1.1 LUBRICATE THE REDUCER, DISC BRAKE AND MOTOR according to the manufacturer's instructions.
 - ^a FILL THE REDUCER, DISC BRAKE AND MOTOR with oil before operating the winch. Fill the reducer, disc brake and motor until oil reaches the level check plug. **Do not mix different lubricants.**
 - b CHECK OIL LEVEL before every operation and every 10 hours during operation. Remove the level plug and make sure oil is even with the plug hole. See Figure 2.
 - CHANGE REDUCER, DISC BRAKE AND MOTOR LUBRICANT at least every 2 years, or whenever it is dirty or contaminated. See Figures 1A and 1B
 - d THE REDUCER is not equipped with a breather plug.
- 1.1.2 LUBRICATE THE WIRE ROPE by following the wire rope manufacturer's recommendations.
- 1.1.3 IF WINCH IS DISASSEMBLED, clean all parts thoroughly and coat bearings and seals with clean grease. Use sufficient grease to provide a good protective coat.
- 1.1.4 OIL DRAIN/FILL PROCESS
 - a LOCATE 2 OF THE LARGE PIPE PLUGS in the sides of the drum located at approximately 90 degrees to one another. These are access plugs to the reducer drain and fill plugs. (Dependent on the model there may be two or three pipe plugs in the drum.)
 - REMOVE THE FIRST OF THE ACCESS PLUGS from the drum. See Figure 2 - Lubricating the Winch.
- c LOOK INTO THE NOW OPENED ACCESS PLUG HOLE. You will find another pipe plug which is in the reducer. Remove it. (This will become the drain hole.)
- ROTATE THE DRUM so that the open access plug hole is down at the 6 o'clock position and a second access plug is located approximately 90 degrees from it on the side of the drum.
- REMOVE THE ACCESS PLUG in the side of the drum.

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Motor Drain Plug

Brake Drain Plug

- f LOOK INTO THE OPENED ACCESS PLUG HOLE in the side of the drum and you will find another pipe plug which is in the reducer. Remove it. (Removing this plug will speed up the drain process and will become the fill hole.)
- g ALLOW THE OIL TO COMPLETELY DRAIN.
- h ROTATE THE DRUM so that one hole is at the 3 o'clock or the 9 o'clock position and the other is approximately at the 12 o'clock position. The hole in the 12 o'clock position will now become the fill hole and the hole on the side of the drum will become the level hole. (The 12 o'clock position may vary per model.)
- i FILL THE REDUCER with oil until the oil shows at the reducer level hole in the side of the drum.
- j INSERT THE OIL LEVEL REDUCER PLUG into the reducer and tighten and then install the access plug into the drum.
- k FINISH BY INSTALLING THE REDUCER FILL PLUG into the reducer and install the access plug into the drum.



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Figure 2 – Lubricating the Winch

Reducer Fill Plug Inside Drum

Reducer Level Hole

Table 1 – Motor and Reducer Lubrication Table			
SERIES	OIL TYPE OR EQUIVALENT	MOTOR (FL OZ)	REDUCER (FL OZ)
TA2 SERIES	MOBIL SHC 630	13	55
TA2.5 SERIES	MOBIL SHC 630	38	84
TA5 SERIES	MOBIL SHC 630	38	122
TA7 SERIES	MOBIL SHC 630	38	199

Table 2 – Disc Brake Lubrication Table			
SERIES	OIL TYPE OR EQUIVALENT	DISC BRAKE (FL OZ)	
TA2 SERIES	MOBIL 424	76	
TA2.5 SERIES	MOBIL 424	110	
TA5 SERIES	MOBIL 424	110	
TA7 SERIES	MOBIL 424	110	

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