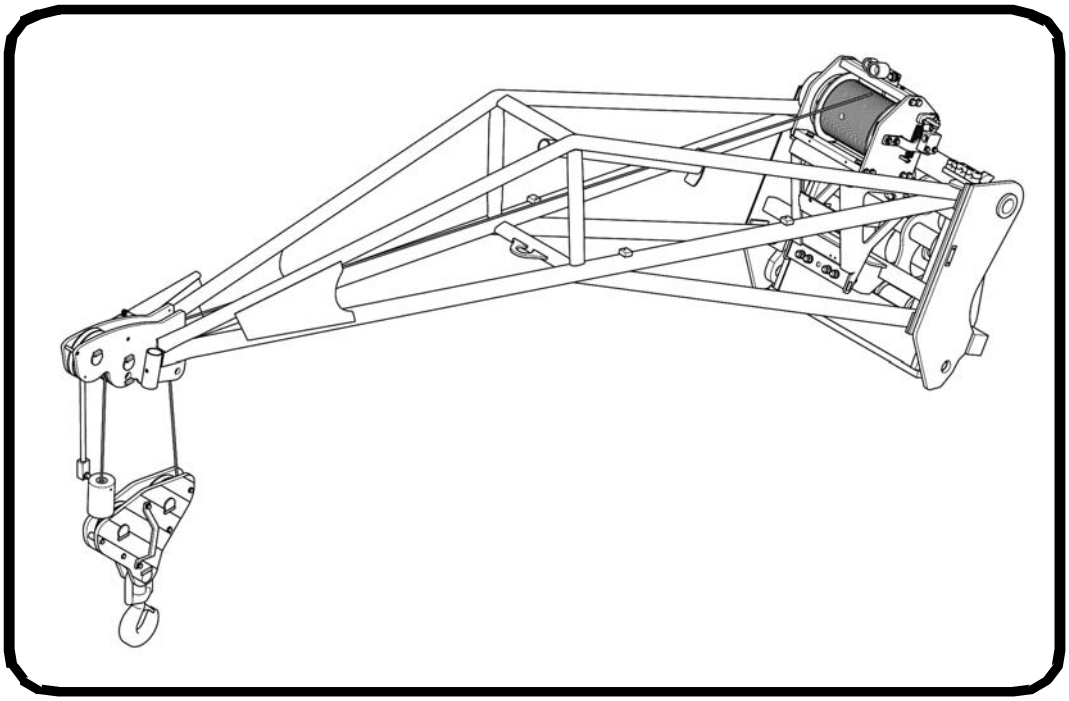
EN

Bobcat®

Operation & Maintenance Manual
Hoisting Winch with Jib

Jib + Hoist 1.0T: S/N AK3F00101 & Above
Jib + Hoist 0.6T: S/N AK3G00101 & Above



6989512enGB (02-17) (B)

Printed in Belgium

BOBCAT COMPANY IS ISO 9001 CERTIFIED

ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures which we use to design, develop, manufacture, and distribute Bobcat products.

British Standards Institute (**BSI**) is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner, North Dakota (U.S.A.), Pontchâteau (France), and the Bobcat corporate offices (Gwinner, Bismarck, and West Fargo) in North Dakota. **TÜV Rheinland** is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facility in Dobris (Czech Republic). Only certified assessors, like BSI and TÜV Rheinland, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

FIRE PREVENTION

Maintenance

The machine and some attachments have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Electrical

Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use petrol or diesel fuel for cleaning parts. Use commercial non-flammable solvents.

Fueling

Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Ultra Low Sulfur Diesel (ULSD) poses a greater static ignition hazard than earlier diesel formulations with higher Sulfur content. Avoid death or serious injury from fire or explosion. Consult with your fuel or fuel system supplier to ensure the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

Spark Arrester Exhaust System

The spark arrester exhaust system is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

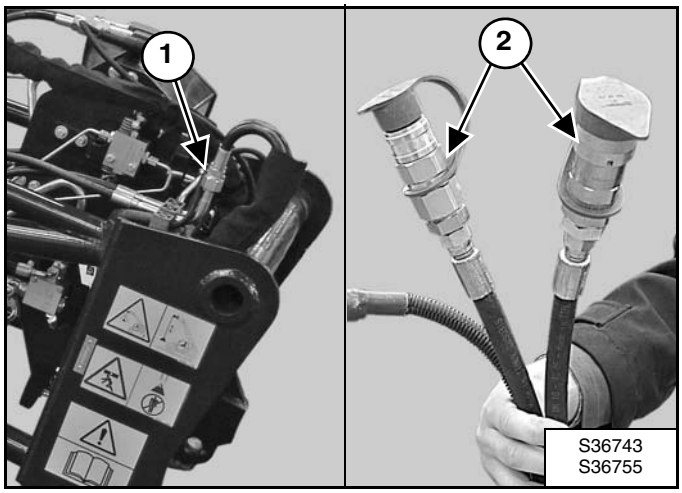
Check the spark arrester exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrester muffler (if equipped).

SI ATT EMEA-0913

DAILY INSPECTION

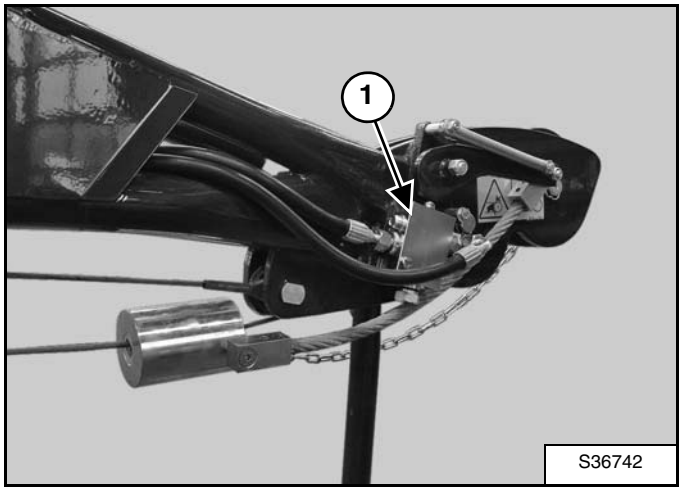
Hydraulic System Inspection

Figure 3



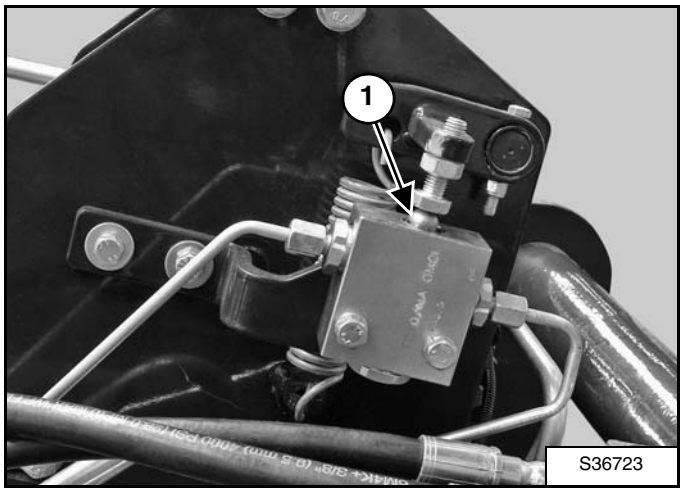
Check the tightness of hydraulic connections on the hoisting winch with jib (Item 1) and hydraulic quick couplers (Item 2) **[Figure 3]**.

Figure 4



Check the working of the upper limit valve (Item 1) **[Figure 4]**. (See UPPER LIMIT VALVE on Page 72.)

Figure 5



Check the working of the lower limit valve (Item 1) **[Figure 5]**. (See LOWER LIMIT VALVE on Page 72.)

Hydraulic Quick Couplers

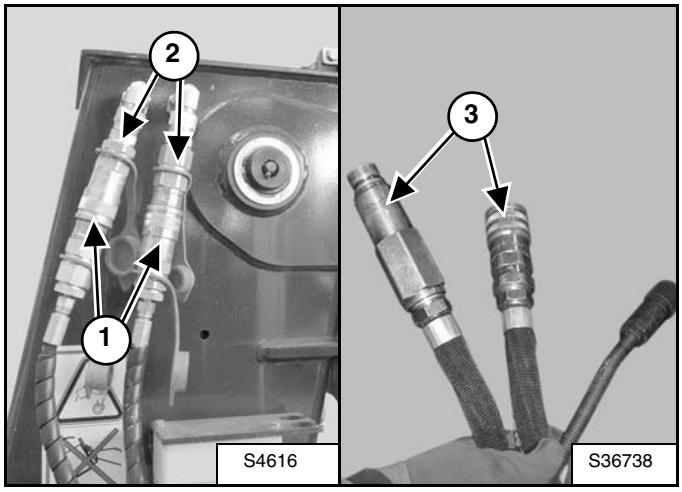
To Connect:

Remove dirt or debris from the surface of both couplers. Visually check the couplers for corrosion, cracks, damage, or excessive wear. If any of these conditions exist, the coupler(s) must be replaced.

Release the auxiliary hydraulic pressure. (See Auxiliary Hydraulic Release on Page 41.)

Telescopic Handlers With Single Auxiliary Hydraulic Couplers

Figure 20

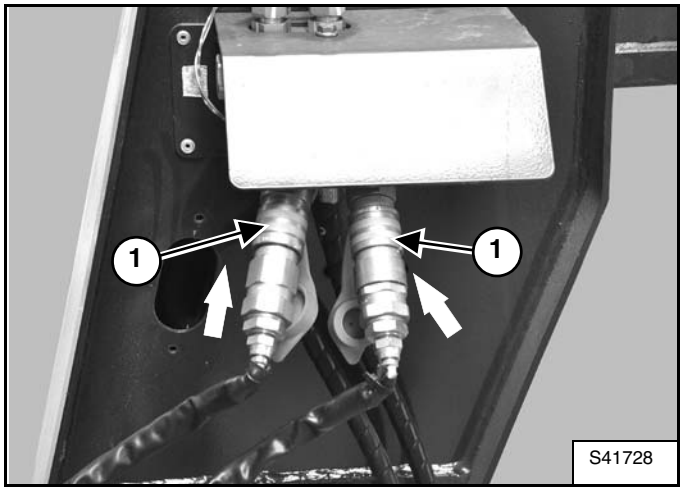


Disconnect the hydraulic couplers (Item 1) from the telescopic handler hydraulic quick couplers (Item 2) **[Figure 20]**. (Suppress Power Bob-Tach™).

Connect the hoisting winch with jib hydraulic couplers (Item 3) to the telescopic handler hydraulic quick couplers (Item 2) **[Figure 20]**.

Telescopic Handlers With Secondary Auxiliary Hydraulic Couplers

Figure 21



Leave the existing hydraulic couplers connected to the primary (inner) telescopic handler hydraulic quick couplers. (Suppress Power Bob-Tach™).

Remove the plug and connect hoisting winch with jib hydraulic couplers (Item 1) **[Figure 21]** to the free telescopic handler hydraulic quick couplers.

NOTE: Check that the attachment hydraulic hoses are not twisted or contacting any moving parts of the telescopic handler or attachment.

Operation With The Telescopic Handler (Cont'd)

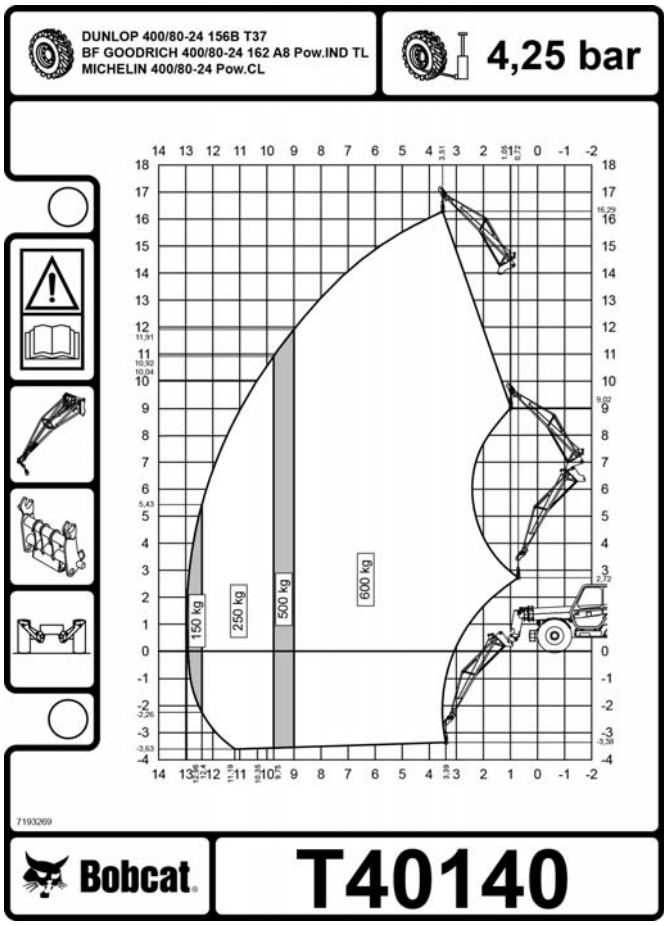
Load Capacity Charts For Hoisting Winch With Jib 0.6T (Cont'd)

Chart for the machine T40140 (S/N A8GA11001 & Above) on tyres (stabilisers raised):

- **DUNLOP 400/80-24 156B T37**
- with inflation pressure of 425 kPa (4,25 bar) (61 psi).
- with Jib + Hoist 0.6T

- **BF GOODRICH 400/80-24 162 A8 Pow. IND TL**
- with inflation pressure of 425 kPa (4,25 bar) (61 psi).
- with Jib + Hoist 0.6T

- **MICHELIN 400/80-24 Pow. CL**
- with inflation pressure of 425 kPa (4,25 bar) (61 psi).
- with Jib + Hoist 0.6T



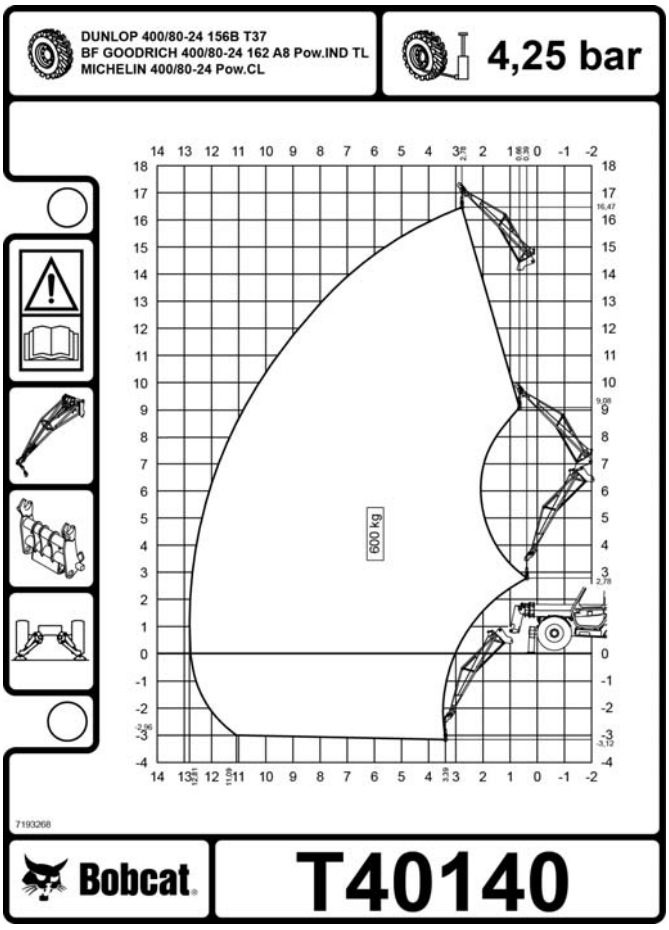
Complies with stability test EN1459 Annex B

Chart for the machine T40140 (S/N A8GA11001 & Above) on stabilisers:

- **DUNLOP 400/80-24 156B T37**
- with inflation pressure of 425 kPa (4,25 bar) (61 psi).
- with Jib + Hoist 0.6T

- **BF GOODRICH 400/80-24 162 A8 Pow. IND TL**
- with inflation pressure of 425 kPa (4,25 bar) (61 psi).
- with Jib + Hoist 0.6T

- **MICHELIN 400/80-24 Pow. CL**
- with inflation pressure of 425 kPa (4,25 bar) (61 psi).
- with Jib + Hoist 0.6T

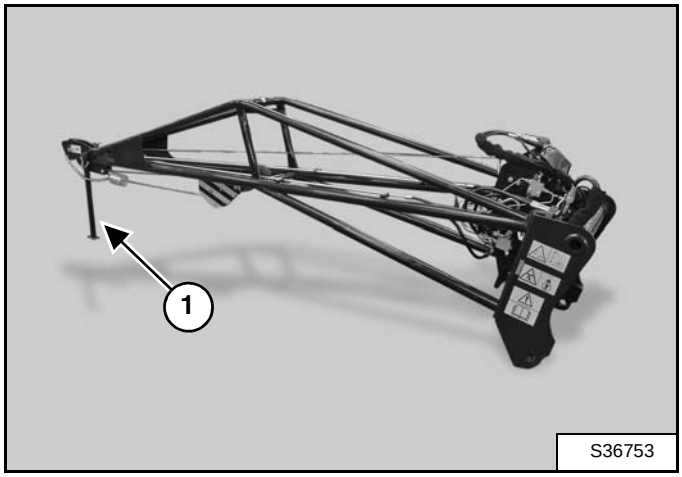


Complies with stability test EN1459 Annex B

Removal

NOTE: When disconnecting hydraulic hoses, always use plugs on unused couplers to protect them from the dirt.

Figure 41



Install the support (Item 1) and place the hoisting winch with jib flat on the ground **[Figure 41]**.

Release the auxiliary hydraulic pressure. (See Auxiliary Hydraulic Release on page 41.)

Stop the telescopic handler engine, engage the parking brake, unfasten the seat belt and exit the telescopic handler.

Remove the hydraulic quick couplers. (See Hydraulic Quick Couplers on Page 39.)

Remove the electrical harness. (See Electrical Harness on Page 42.)

⚠ WARNING

Before you leave the operator's position:

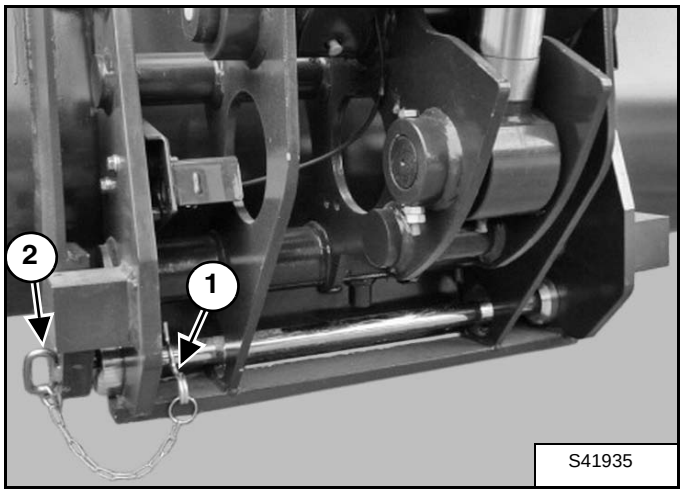
- **Put the travel Direction Control Lever and the Joystick in neutral.**
- **Engage the parking brake.**
- **Retract and lower the boom and attachment flat on the ground.**
- **Stop the engine. Raise the restraint bar (if equipped).**

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

W-2637-0607

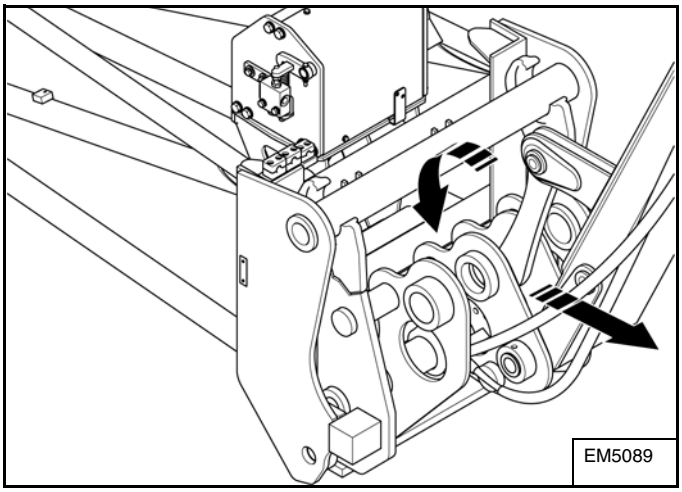
Telescopic Handler Manual Quick-Tach (If Equipped)

Figure 42



Remove the safety pin (Item 1) and the locking bar (Item 2) **[Figure 42]** and put them in their storage position.

Figure 43



Enter the telescopic handler, fasten the seat belt, disengage the parking brake and start the engine.

Tilt the telescopic handler attachment carrier forward while backing away from the hoisting winch with jib **[Figure 46]**. The quick-tach system will disconnect from the hoisting winch with jib's tube.

The hoisting winch with jib is removed from your telescopic handler.

Stop the telescopic handler engine, engage the parking brake, unfasten the seat belt and exit the telescopic handler.

LUBRICATING THE ATTACHMENT

Chart

NOTE: Always clean the grease fittings before injecting grease. Apply lubricant until extra grease shows. Remove all tracks of grease after lubrication.

LUBRICATION LOCATIONS	TYPE OF LUBRICANT
Reduction gear	Bobcat SAE 85W/90 - API GL5 (from -12°C to +50°C)*
Hook rotation	Bobcat SAE 15W/40 (from -20°C to +40°C)*
Cable	Thin film of lubricant with penetration properties, resistant to corrosion and wash-out (Bobcat Cable Rope Oil, P/N 6987718)

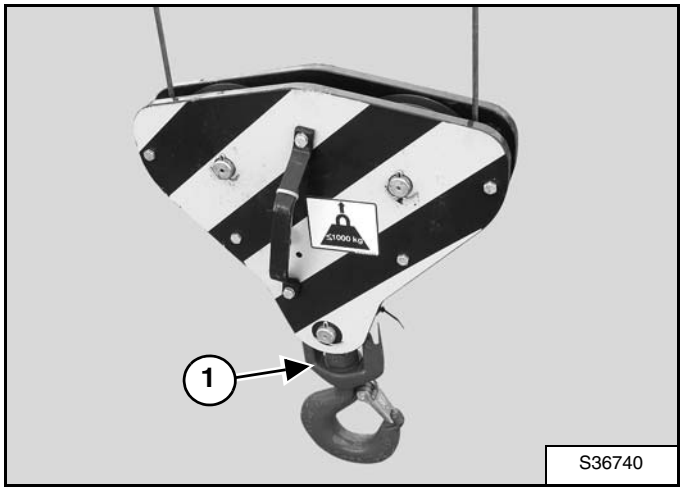
* (See Lubricants Table on Page 10.)

Lubrication Locations

Lubricate more frequently in case of saline or corrosive environment.

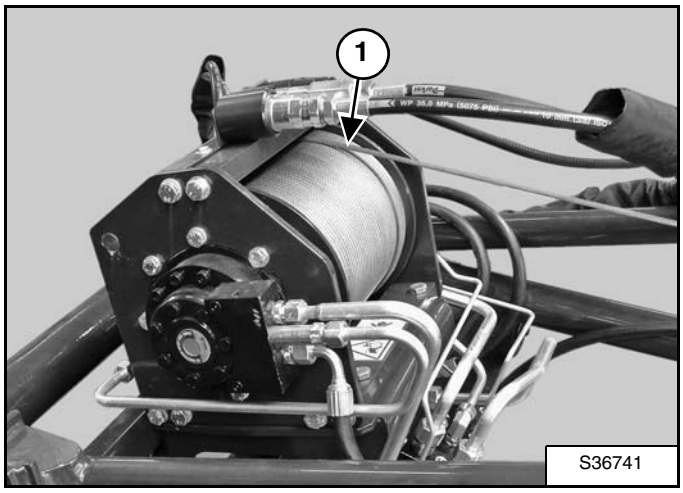
Lubricate the following locations on the hoisting winch with jib:

Figure 49



Lubricate the hook (Item 1) **[Figure 49]**. (See Chart on Page 69.)

Figure 50



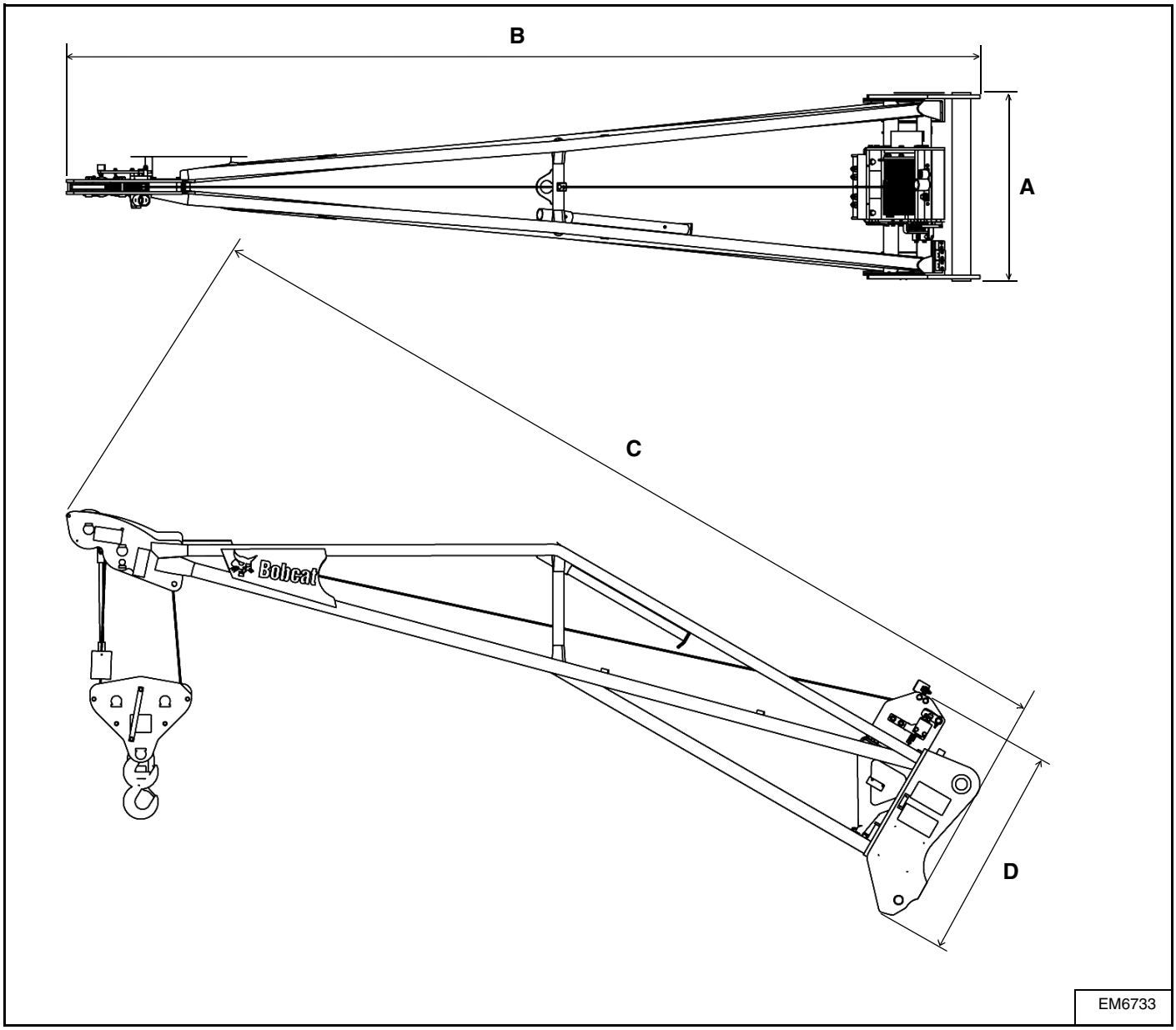
Lubricate the cable (Item 1) **[Figure 50]**.

NOTE: Unwind and rewind the cable for lubrication. (See CABLE on Page 70.)

(WINCH WITH JIB 1.0T) SPECIFICATIONS

Dimensions

- All dimensions are shown in SI units.
- Where applicable, specifications conform to **EN and ISO** standards and are subject to change without notice



Width A	795 mm (31.3 in)
Length B	3951 mm (155.5 in)
Total Length C	4019 mm (158.2 in)
Height D	952 mm (37.5 in)