



Doosan Infracore
Portable Power

Service Letter

Field Modification

SL: 35001
Date: 15 June 2012
Product: Light Tower
Subject: Cable Winch Adjustment (Y02)

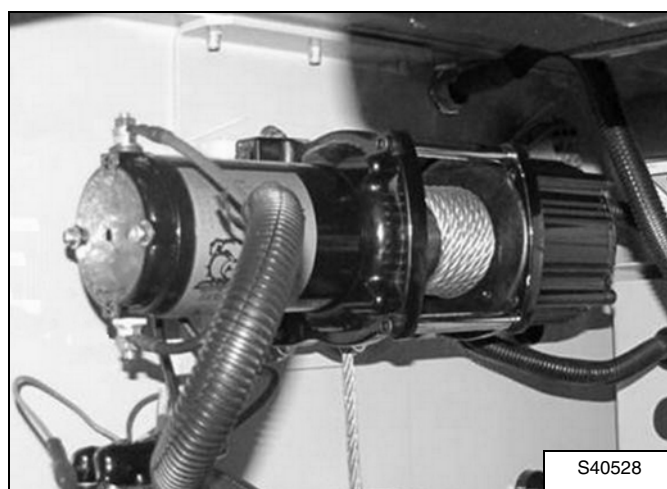
PROCEDURE & WARRANTY GUIDELINES

Repair Priority	Mandatory - Class A
Parts Required	Yes - parts will be shipped free of charge
Parts Return	No - dispose of old parts
Parts Credit	No
Labor Credit	Yes - Two (2) hours
Travel Credit	Yes - Two (2) hours for retailed machines
Causal Part Number	333002
Warranty Code	Y02
DVP Application	Yes

MODEL	SERIAL NUMBER
LT6K	366965 thru 366969 366972 thru 366999 367001 thru 367003 367005 thru 367006 367008 thru 367009

[Figure 1] Doosan Benelux SA has determined the cable winch does not meet engineering specifications for the Light Towers listed in this letter. The cable spring is controlling the correct winding of the cable on the spool side by side and protecting the cable from damage caused by bad winding. The absence of this cable spring on these Light Towers can cause an issue in case of cable rupture during operation.

Figure 1



Parts

QTY	P/N	DESCRIPTION
1	333002	Cable Winch Kit

The above parts will be shipped to you for each affected machine.

Doosan Benelux SA asks its dealers to **immediately** contact all owners of affected machines and make arrangements for this modification and to correct all affected machines in their dealer inventory prior to delivery.

Procedure

Figure 2

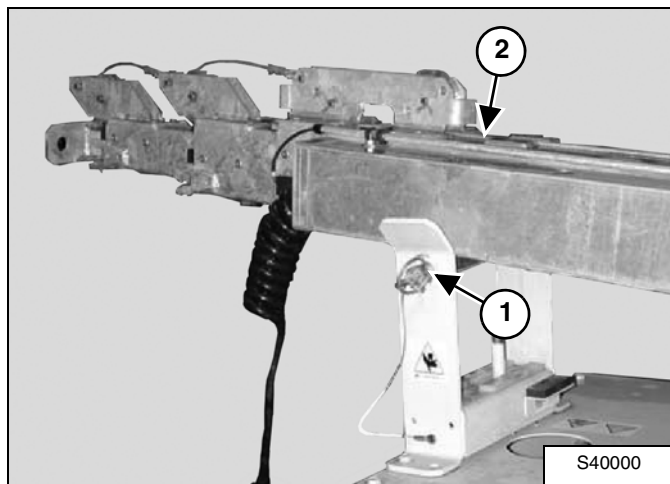
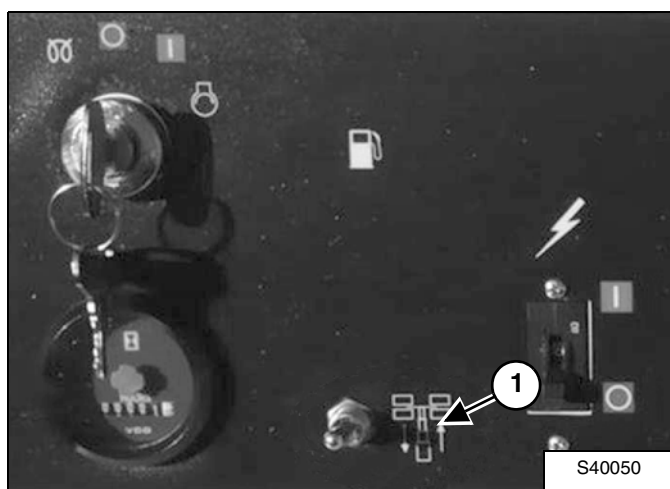


Figure 3



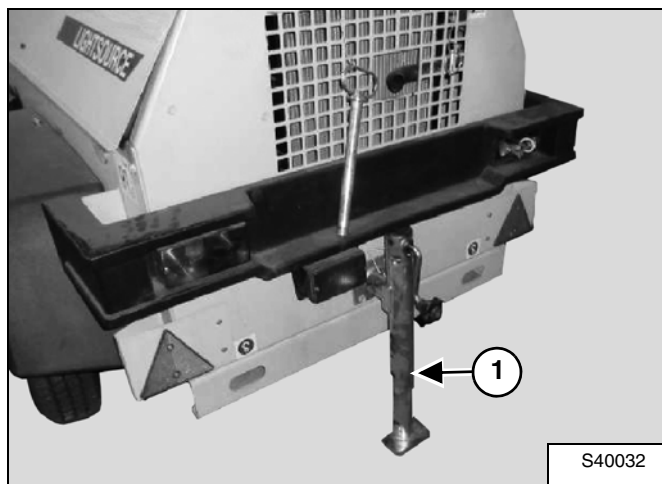
Remove the lynch pin and remove the horizontal pin (Item 1) [Figure 2].

Push the switch (Item 1) [Figure 3] up to raise the mast (Item 2) [Figure 2] out of the cradle (using the winch).

Reinstall the horizontal pin (Item 1) [Figure 2] and secure with the lynch pin.

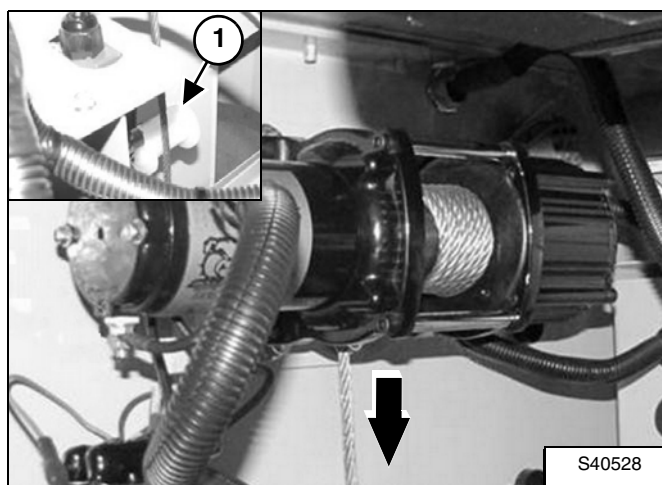
Push the switch (Item 1) [Figure 3] down to lower the mast (Item 2) [Figure 2] (using the winch) until it is securely supported on the horizontal pin.

Figure 4



Install the rear jack (Item 1) [Figure 4] to stabilize the machine.

Figure 5

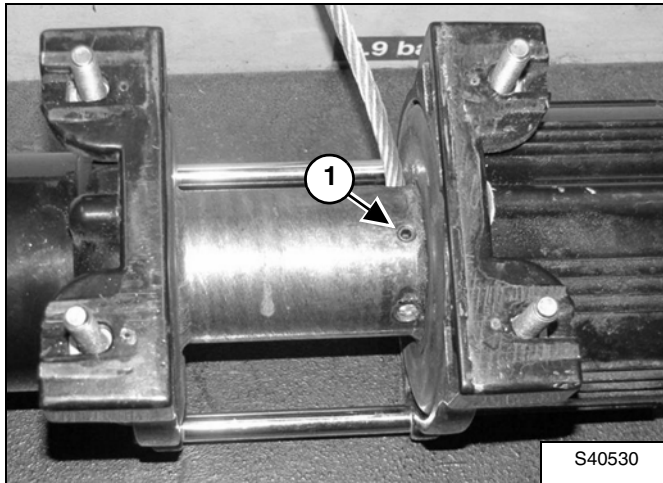


Push the switch (Item 1) [Figure 3] down to unroll the cable from the drum (as shown) [Figure 5].

NOTE: Keep the cable switch (Item 1) [Figure 5] pushed to allow the winch to completely unroll the cable.

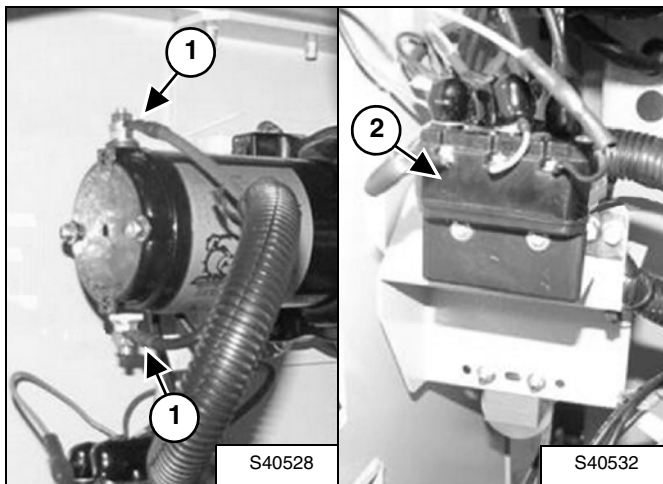
NOTE: Disconnect the battery cables.

Figure 6



Loosen the drum screw (Item 1) **[Figure 6]** and remove the cable from the winch.

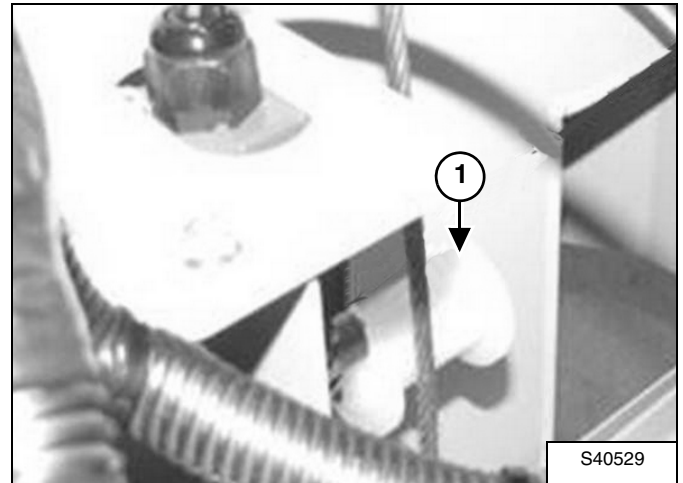
Figure 7



Disconnect the power cables (Item 1) **[Figure 7]** from the winch.

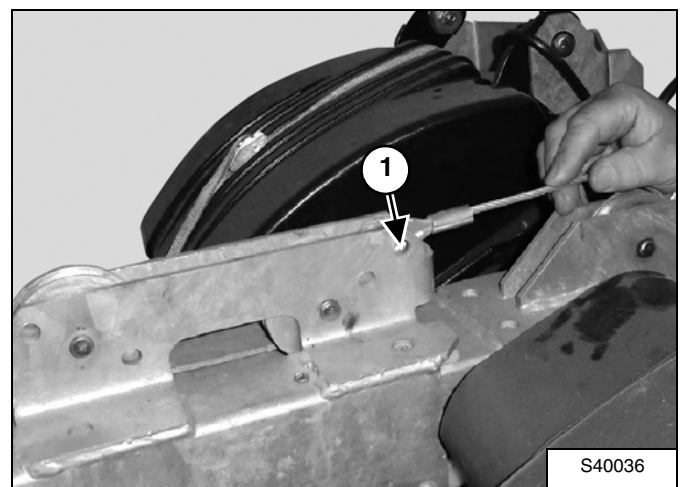
Remove the relay (Item 2) **[Figure 7]** and its mounting plate.

Figure 8



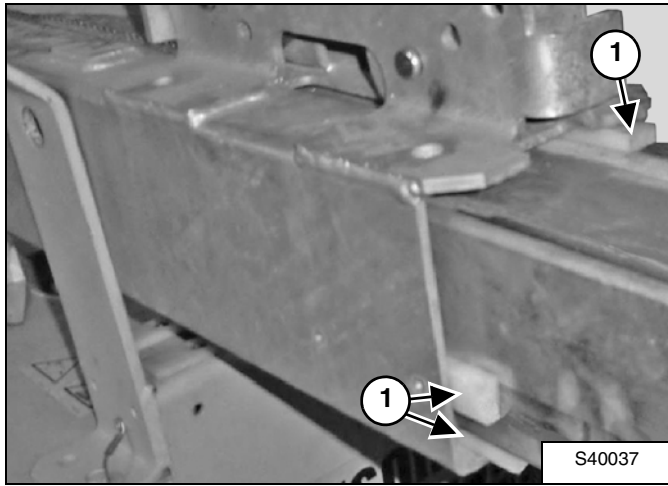
Remove the cable switch (Item 1) **[Figure 8]**.

Figure 9



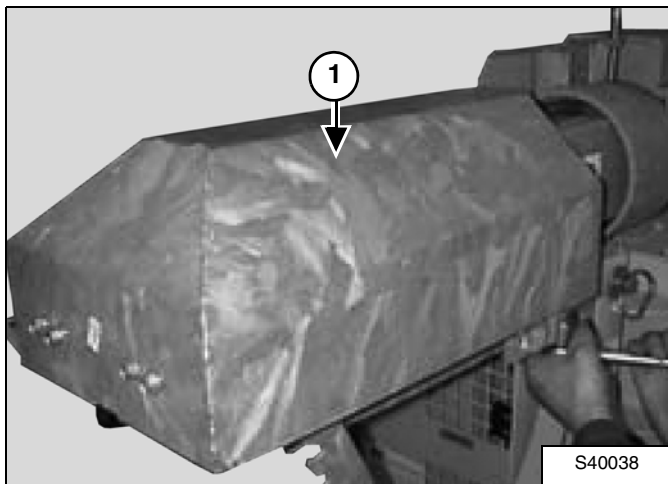
Remove the cotter pin and pin (Item 1) **[Figure 9]** from the cable thimble end.

Figure 10



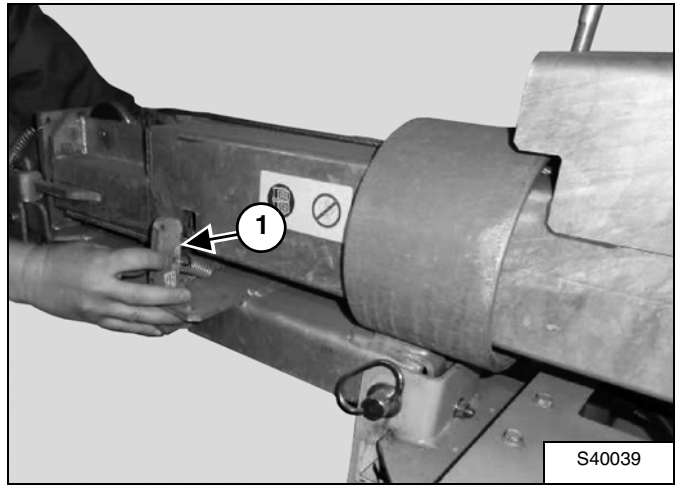
Remove the six mast slides (Item 1) [Figure 10] by removing the screws.

Figure 11



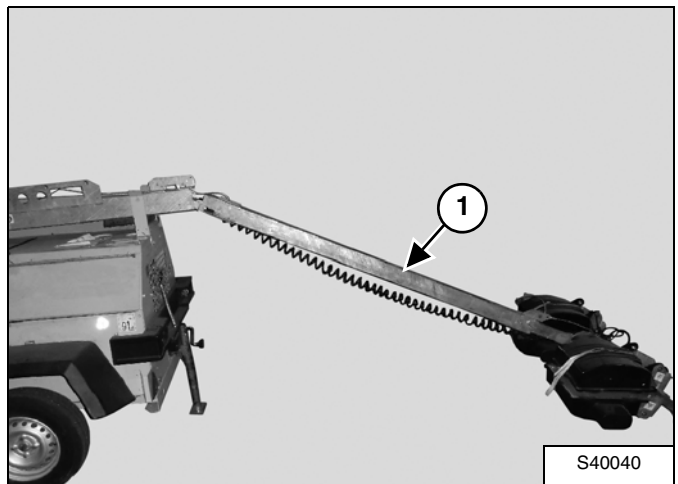
Remove the screws and remove the mast lock cover (Item 1) [Figure 11].

Figure 12



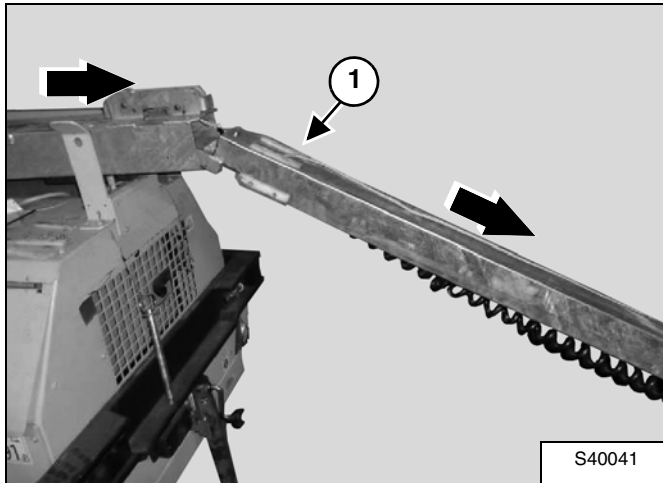
Release the telescope latches (Item 1) [Figure 12] to allow the tube to extend.

Figure 13



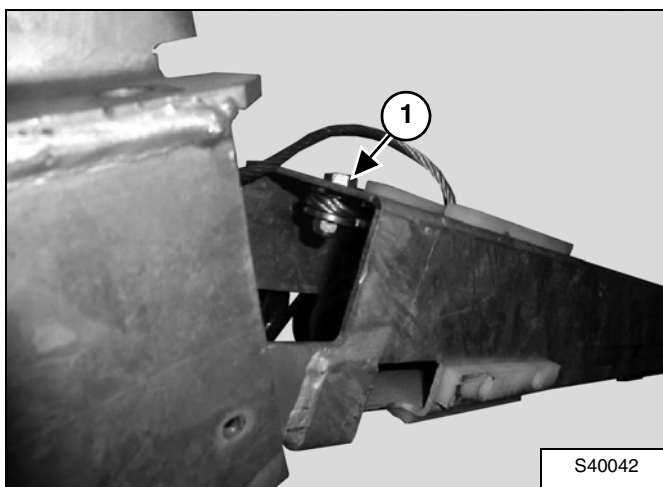
Using a lifting device, pull out the tube (Item 1) [Figure 13] until its end can be put on the ground.

Figure 14



Pull out the mast cable (Item 1) [Figure 14] as shown.

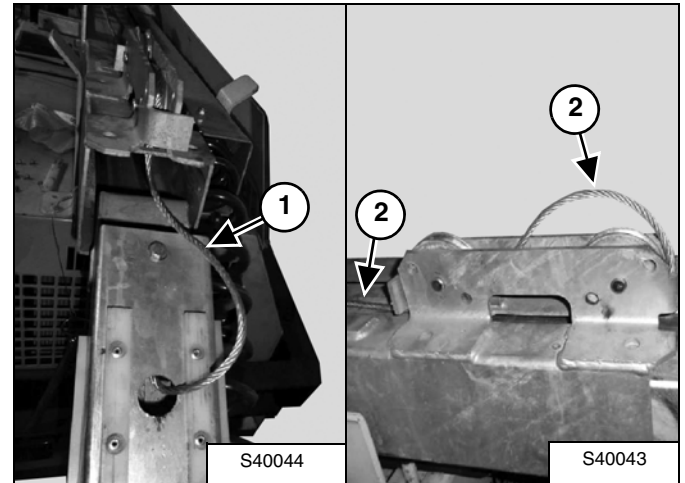
Figure 15



Remove the nut, washer and bolt (Item 1) [Figure 15]. Remove and discard the mast cable.

Install the cable ring end of the new mast cable to the tube using the bolt, washer and nut.

Figure 16



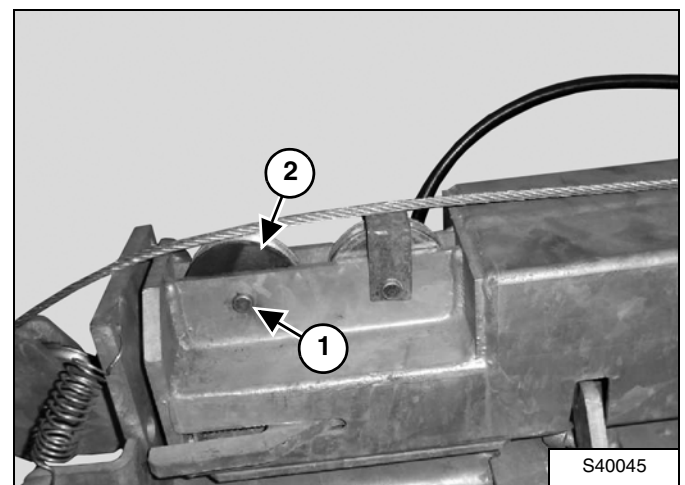
Route the new mast cable to the pulley as shown (Item 1) [Figure 16].

Using a lifting device, push the tube back into the lower mast tube. make sure the mast cable is rolling on the pulley and routed as shown (Item 2) [Figure 16].

Reinstall the six mast slides (Item 1) [Figure 10].

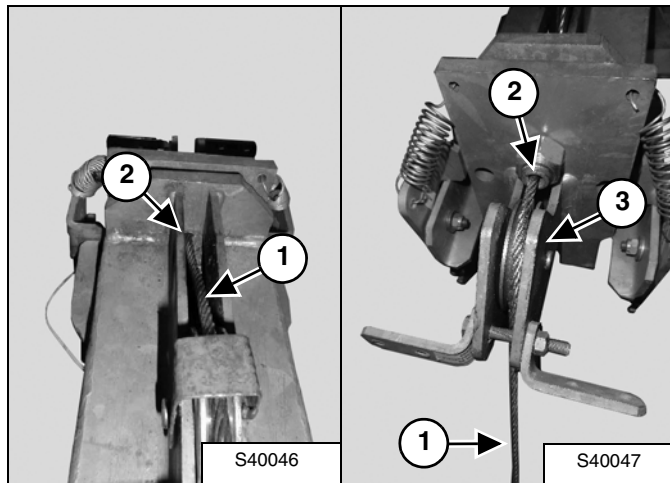
Reinstall the cable thimble end using the pin (Item 1) [Figure 9] and cotter pin.

Figure 17



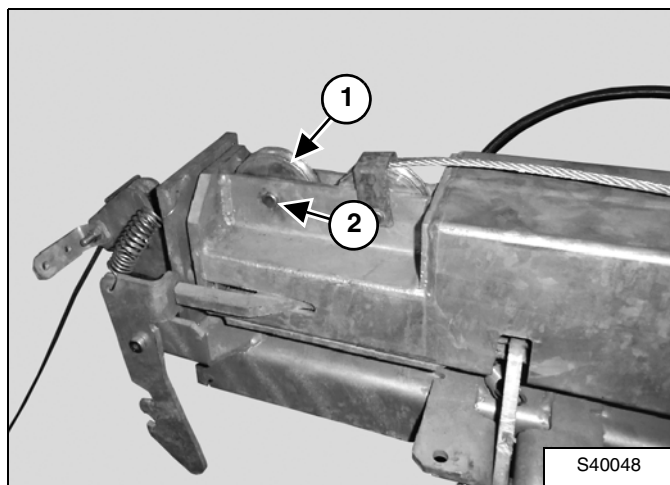
Remove the cotter pin and pin (Item 1) and remove the pulley (Item 2) [Figure 17].

Figure 18



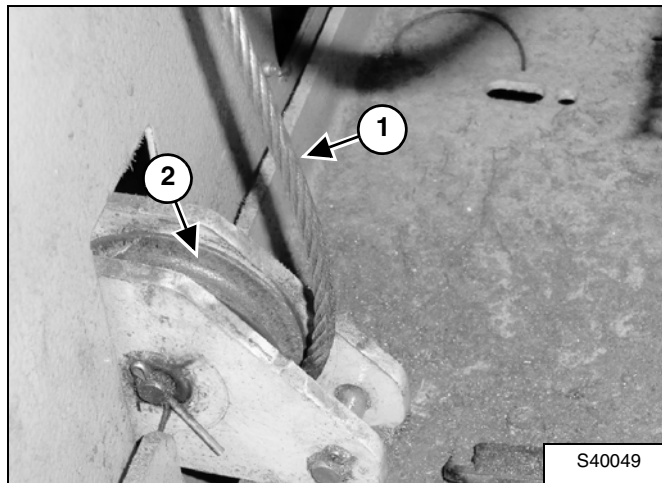
Route the mast cable (Item 1) over the pulley, through the hole (Item 2) at the bottom of the lower mast and over the pulley (Item 3) **[Figure 18]**.

Figure 19



Reinstall the pulley (Item 1) using the cotter pin and pin (Item 2) **[Figure 19]**. Make sure the mast cable is routed under the pulley.

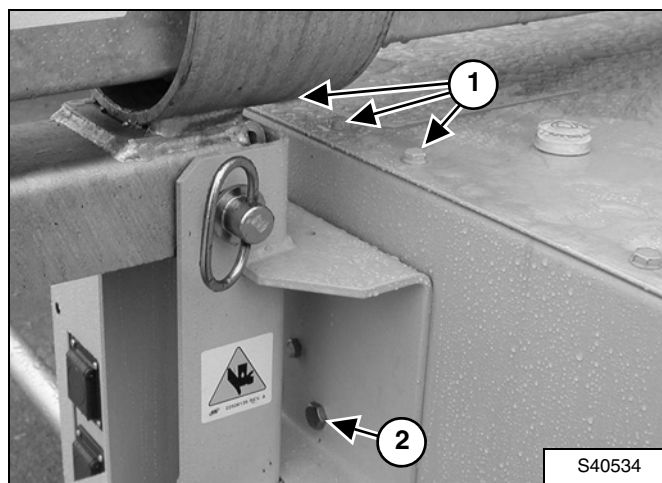
Figure 20



Route the mast cable (Item 1) inside the canopy, under the canopy pulley (Item 2) **[Figure 20]**.

Reinstall the lock cover (Item 1) **[Figure 11]** using the screws.

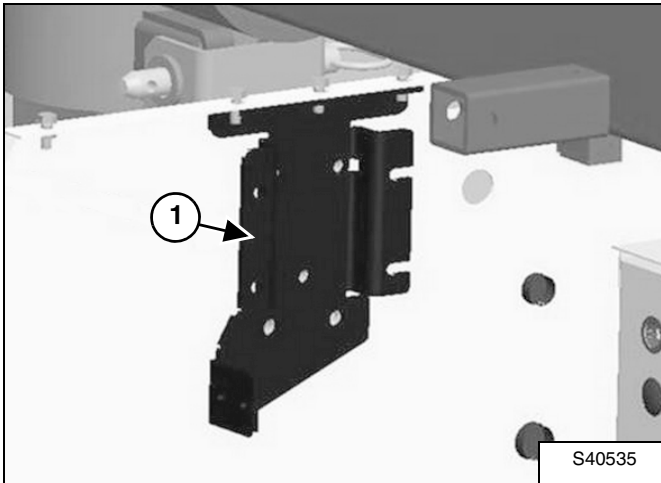
Figure 21



Remove the three bolts (Item 1) **[Figure 21]** from the roof panel.

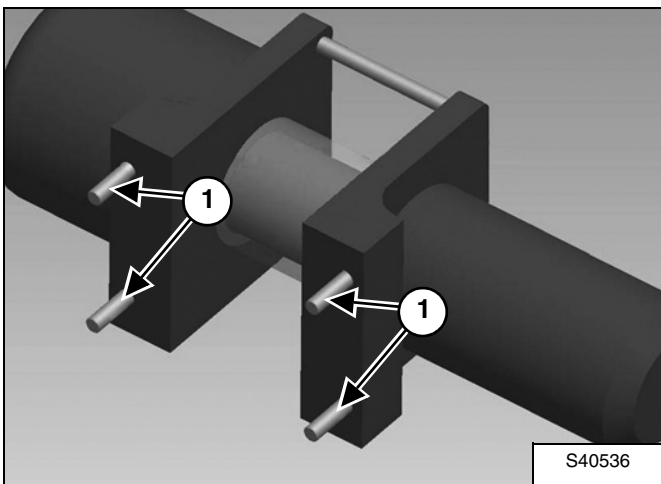
Remove the four bolts (Item 2) **[Figure 21]** from the front panel and remove the winch and fitting plate from inside the canopy.

Figure 22



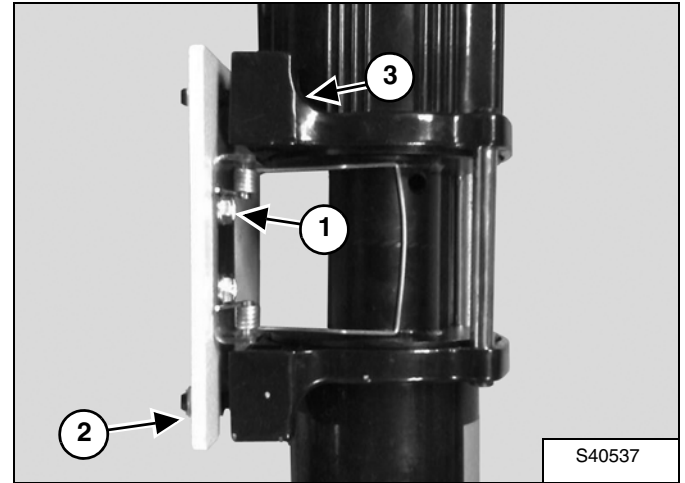
Install the new mounting plate (Item 1) **[Figure 22]** inside the canopy, using the bolts removed in **[Figure 21]**.

Figure 23



Remove the winch from the fitting plate and install the M8 studs (Item 1) **[Figure 23]** to the winch.

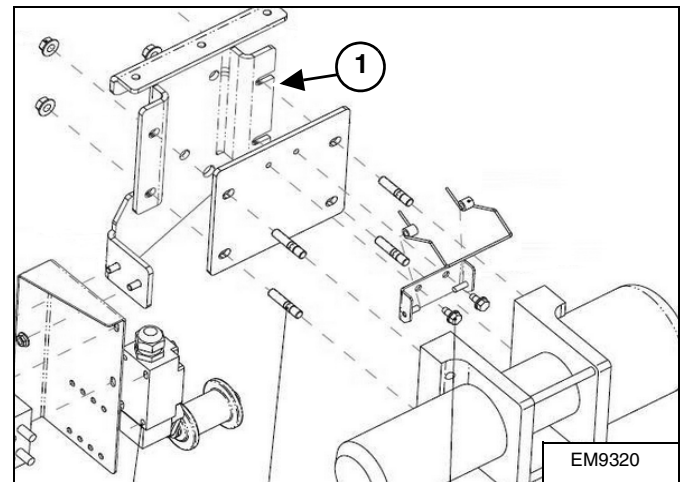
Figure 24



Install the new winch spring assembly to the winch plate using the screws (Item 1) **[Figure 24]**.

Install the new winch plate (Item 2) on the studs of the winch (Item 3) **[Figure 24]**.

Figure 25

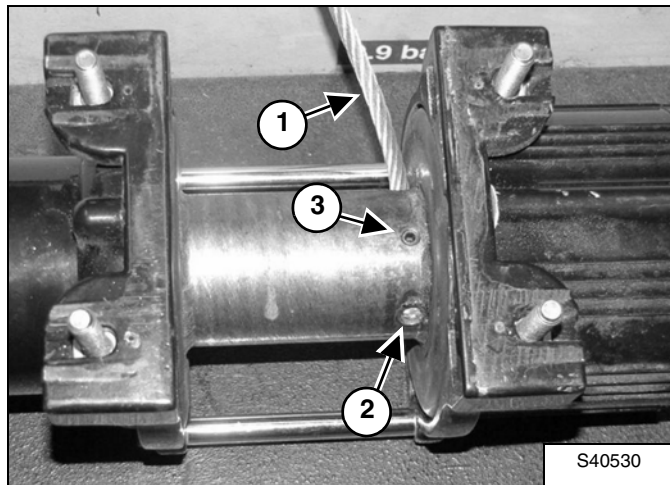


Install the winch and winch plate to the new mounting plate (Item 1) **[Figure 25]** inside the canopy as shown.

Reinstall the cable switch (Item 1) **[Figure 8]**.

Reinstall the power cables (Item 1) and the relay (Item 2) **[Figure 7]** with mounting plate.

Figure 26

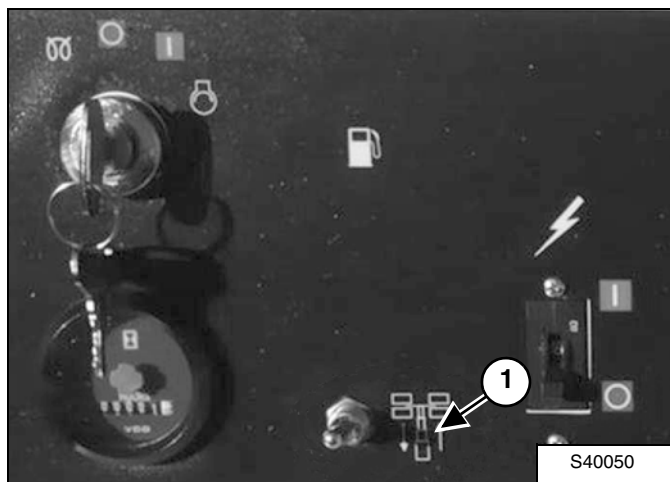


Install the new cable (Item 1) [Figure 26] in the drum hole.

Leave a 1 mm clearance from the outer surface of the drum (Item 2) [Figure 26].

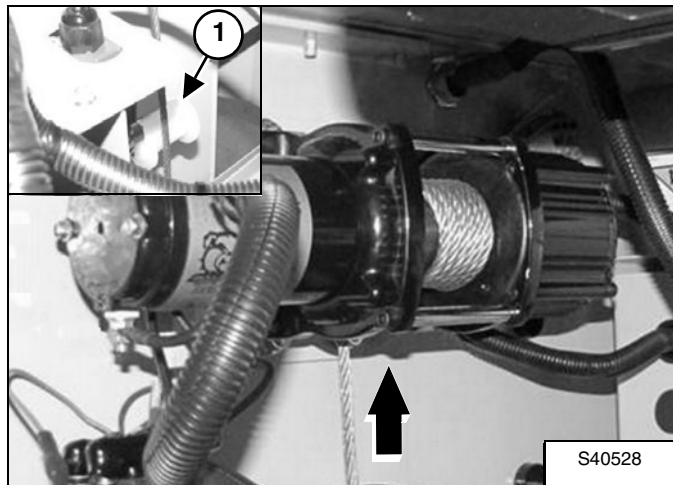
Fasten the cable with the drum screw (Item 3) [Figure 26].

Figure 27



NOTE: Reconnect the battery cables.

Figure 28



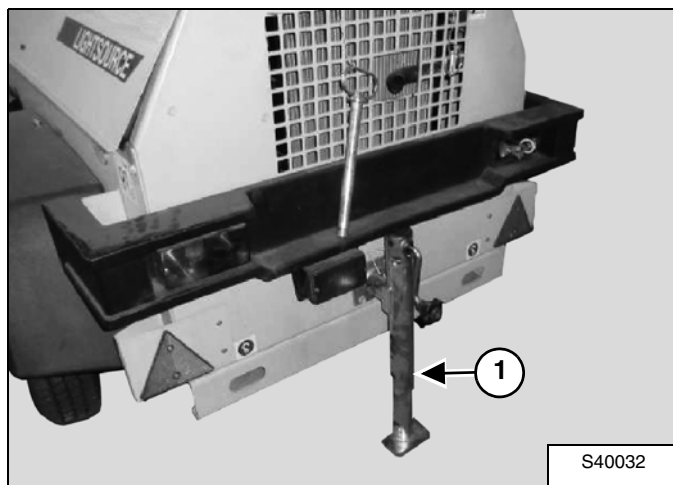
Push the switch (Item 1) [Figure 27] up to roll the cable on the drum (as shown) [Figure 28].

NOTE: Keep the cable switch (Item 1) [Figure 28] pushed to allow the winch to roll the cable.

Make sure the cable rolls up properly on the winch, side by side.

Stop the winch operation as soon as the cable reaches a little tension, just enough to keep the cable switch pushed back.

Figure 29



Remove the rear jack (Item 1) [Figure 29].

Figure 30

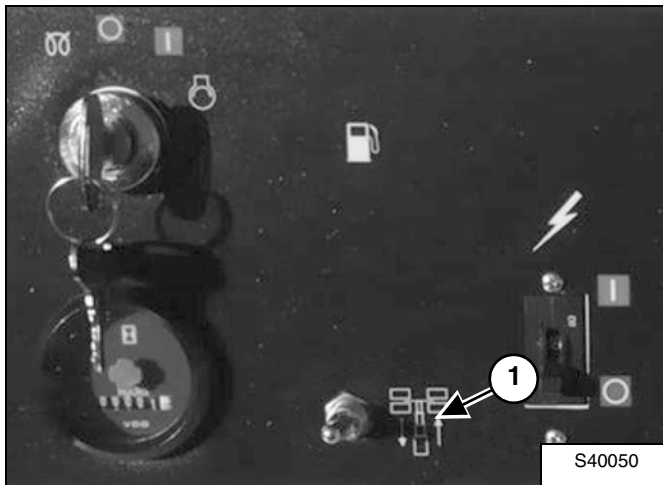
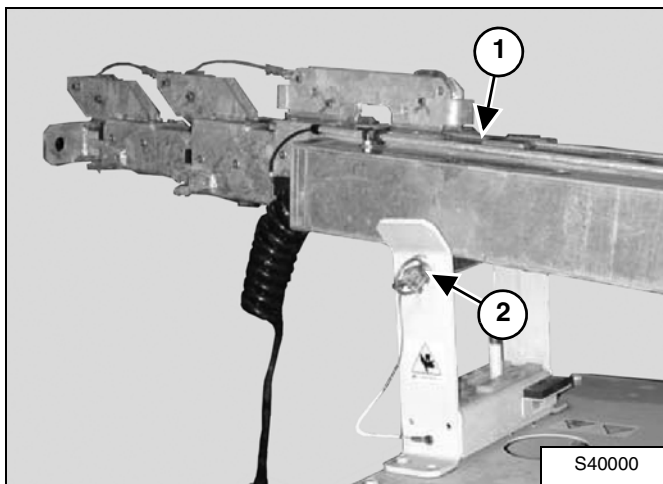


Figure 31



Push the switch (Item 1) **[Figure 30]** up to raise the mast (Item 1) **[Figure 31]** from the horizontal pin.

Remove the lynch pin and remove the horizontal pin (Item 2) **[Figure 31]**.

Push the switch (Item 1) **[Figure 30]** down to lower the mast (Item 1) **[Figure 31]** in the cradle.

Reinstall the horizontal pin (Item 2) **[Figure 31]** and secure with the lynch pin.

Test the mast function and check if the cable rolls up properly on the winch.