

ATB Cable

Replacement for A240700
Reel Assembly



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31917-6506**

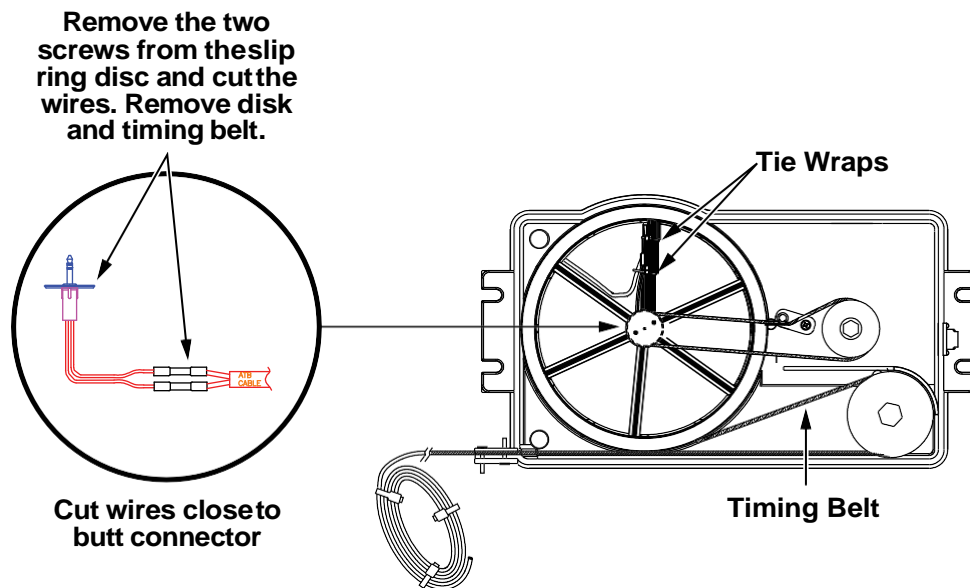
Packing List

- P045106 Extension Cable, 60 feet.
- P040097 Butt-Splices w/Heat Shrink Sleeve, three each (two required, one additional)
- P051026 Tie wraps, three each (two required, one additional)
- P050715 Temporary Cable Clamp.
- P050775 Rope Thimble (for the boom tip)
- P050776 Link Connector (for the boom tip)
- P0050891 Rope Clamp (for the boom tip)

Required Tools

- Medium and small Phillips head screw driver.
- Wire cutters.
- Standard Crimp Tool. (to crimp the butt-splices.)
- Heat gun or “flame” (to shrink the butt-splice heat shrink sleeve.)
- Pliers, nut driver, or small wrench (for the rope clamp at the boom tip)

Remove the Old Cable



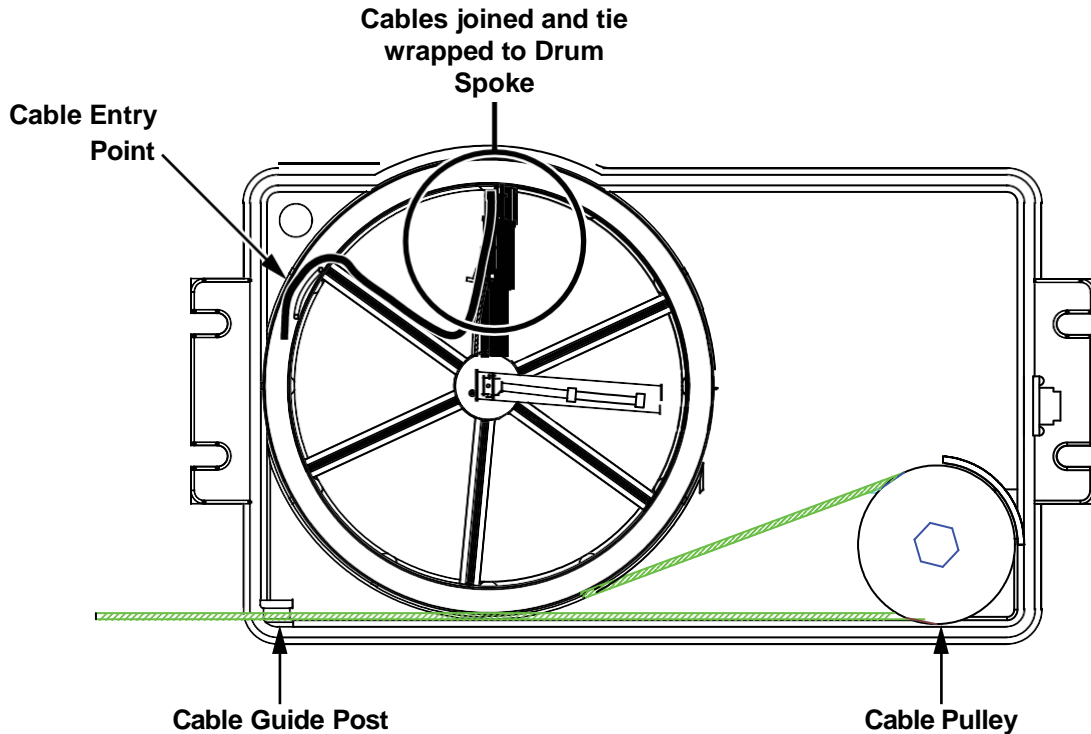
1. Remove the screws and main cover.
2. Cut the tie wraps holding the cable on the drum spoke.
3. Cut the brown and black wires near the butt splice. Remove the slip ring disc.
4. Lift the belt off the center of the drum.
5. Cut the old cable off and remove it from the drum and boom tip.

Install the New Cable

The reeling drum winds the cable on the drum with a “Power Spring. As the boom extends, the spring winds tighter. As the boom retracts the spring unwinds. It’s important to note that when the boom is fully retracted the spring must have 5 turns on of “pre-tension” it to keep the cable tight. This pre-tensioning is during the cable installation.

IMPORTANT!

DO NOT KINK OR TWIST THE CABLE. LAY THE CABLE ON THE GROUND IN A STRAIGHT LINE BEFORE WINDING IT ON THE REEL.

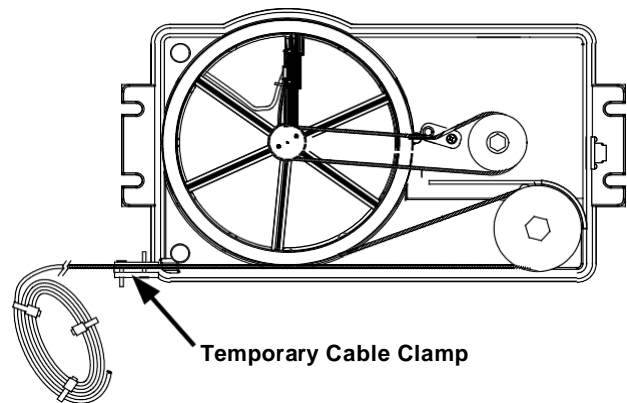


1. Feed the cable through the reeling drums cable guide post, around the pulley and back to the drum.
2. Push the end of cable through the slot on the sidewall of the drum. Insert enough cable so it can be connected to the center hub (about six feet).
3. Turn the drum clockwise until ALL the cable is wound up on the drum.

Note: At this point there will be will be one complete layer on the drum plus seven extra turns. The extra turns will be taken off later and run to the boom tip.

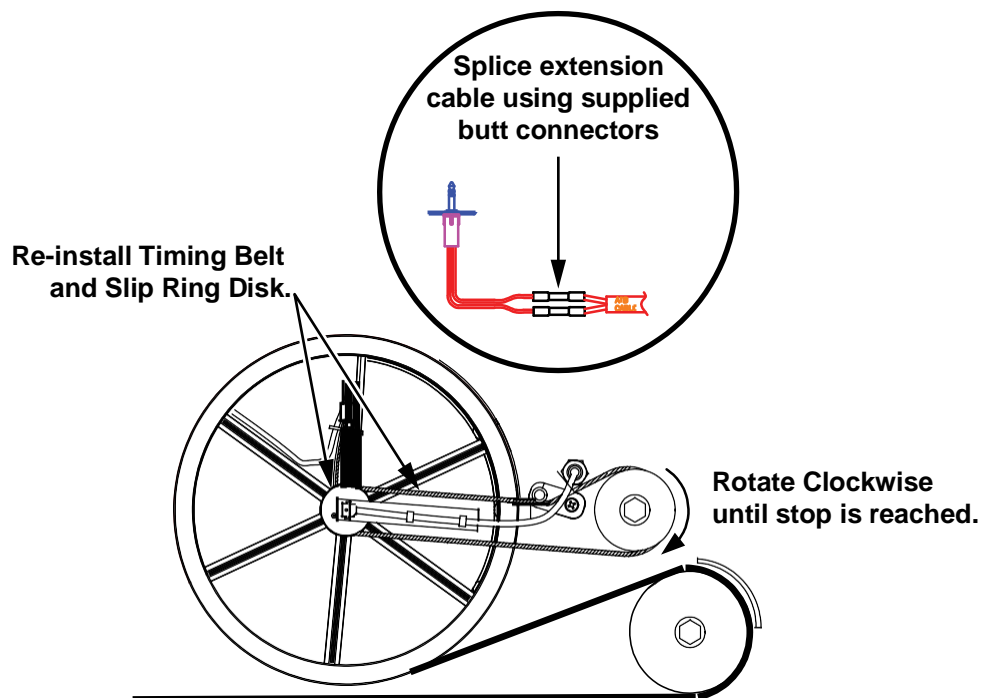
Hold tHE dRuM so it CAN't tuRN: Lift” off 5 turns of cable. Feed the cable now hanging down around the pulley and out the Cable Post.

spRiNg pRElOAd: Pull the cable out while watching the drum turn 5 times. The spring now has 5 turns of preload. Attach the Temporary Cable Clamp to keep the cable from rewinding.



Zero the Extension Pot

Note: The Extension Pot has a “slip clutch” to protect it in the event of an uncontrolled rewind. This means when the pot reaches it’s mechanical stop it will slip instead of damaging the pot.



1. Turn the gear on the extension pot fully clockwise until the clutch slips.
2. Turn the gear back counterclockwise one complete turn. It may help to put a dot or mark on the gear to see it easier.
3. Without allowing the gear to turn, install the belt on the extension pot gear and the drum gear.
4. Engage the belt tension arm. Hook the spring on the arm place it in position.
5. Thread the wires of the slip ring through the slot (in the drum) and screw it down using the two phillips head screws.

Butt-Splices

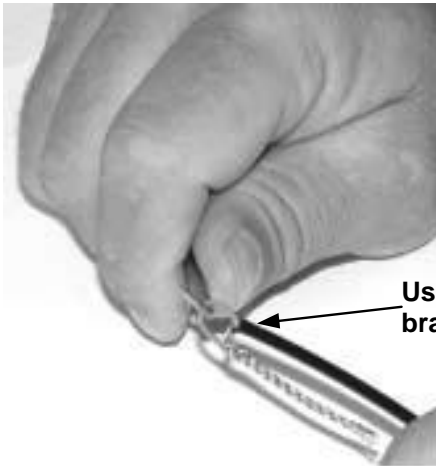
Note: The ATB Extension Cable is extremely tough and hard to strip. The best method to remove the outer jacket is to use #14 wire strippers and remove small sections at a time. Squeeze down on the wire and rock the strippers back and forth until it “cracks”.

Slide the cut piece off the end. Keep removing small sections until one inch of braid is exposed. Unbraid the shield or pull the center core through the braid and twist it. Strip one-quarter inch of the center insulation.

1. Connect the braided shield to the black wire with a butt-splice. Connect the center core to the brown wire with a butt-splice.
2. The sleeve on the butt-splice is designed to shrink and seal out water when heat is applied. Use either a heat gun or flame.

Note: Be careful not to melt the wires when applying the heat.

3. Secure the butt-splices to a drum-spoke with the supplied tie wraps.
4. Test the unit for proper operation.



Using a pick, make a hole in the braiding and pull center core out

