

SERVICE INFORMATION LETTER

FROM: JetProp LLC

5 November 2009

SUBJECT: Large Door Cables

TO: All JetProp Owners

Background. The standard door cables on the PA-46-350P have to be replaced routinely due to broken or frayed cables. JetProp LLC has designed a set of replacement cables that are slightly larger and more flexible than the original cables which should allow the cables to last longer. Since the replacement cables are slightly larger in diameter, some minor modifications are required for installation.

JetProp Replacement Door Cable Installation Instructions. The following outlines the procedure to install the new door cables. (For additional information refer to Piper Maintenance manual for door cable replacement procedures.)

Note: If replacing existing original door cables, both the forward and aft cables should be replaced with the JetProp Door Cables. It is not recommended to use one original (small) and one JetProp (large) cable since the different cable diameters might cause the cables to roll up on the spool slightly different.

A. Preparation

1. Open door and rest on box or cushion so the door does not open all the way down.
2. Remove upper cable attach point (both sides) and release tension on cables. Remove side panels of door (AC duct panel), retain screws.
3. Remove lower door panel via screws accessed from the sides above/behind cable pulley.
4. Remove top cover panel by removing the 4 screws located under the two carpet squares on upper part of the door. Remove lower two screws, retain hardware and set aside.

B. Cable removal

1. With the door open, note the tension on cables for reinstallation.
2. With a dark pen mark a reference line on the top of pulley. This will help for reinstallation. Remove screw and large washer securing cable pulley. Remove cable stop brackets. Remove cable from rollers (may have to remove 1 roller). Slide pulley up from its center post. Note its position for reinstallation.
3. On a bench remove 1 rivet securing cable to pulley.

C. Cable installation

1. With new cable in hand, File down terminal (end of cable) to fit flush on pulley. Install cable on pulley with MS20615M4-4 rivet from outside the pulley so the tail is on cable side of pulley. File outside portion of terminal to be flush with edge of pulley. **If this is not flush, cable end may hit door open/close post when opening/closing cabin door.**
2. Wind cable up on pulley, install on to post exactly as it was removed. Secure with washer and screw. Slide cable end through guide wheels (may have to remove 1 roller to get cable through). There should be some spring tension on cable at this point.
3. Secure cable stop brackets so the cable will slide through opening. (Note: The cable stop brackets must be modified by opening up the slot to allow the larger cable to freely move through the slot (See Figure 1 & 2). The modified cable stop brackets are normally provided with the new cables.)

NOTE:

When installing stop brackets provided by JetPROP the original brackets must be returned to JetPROP for exchange.

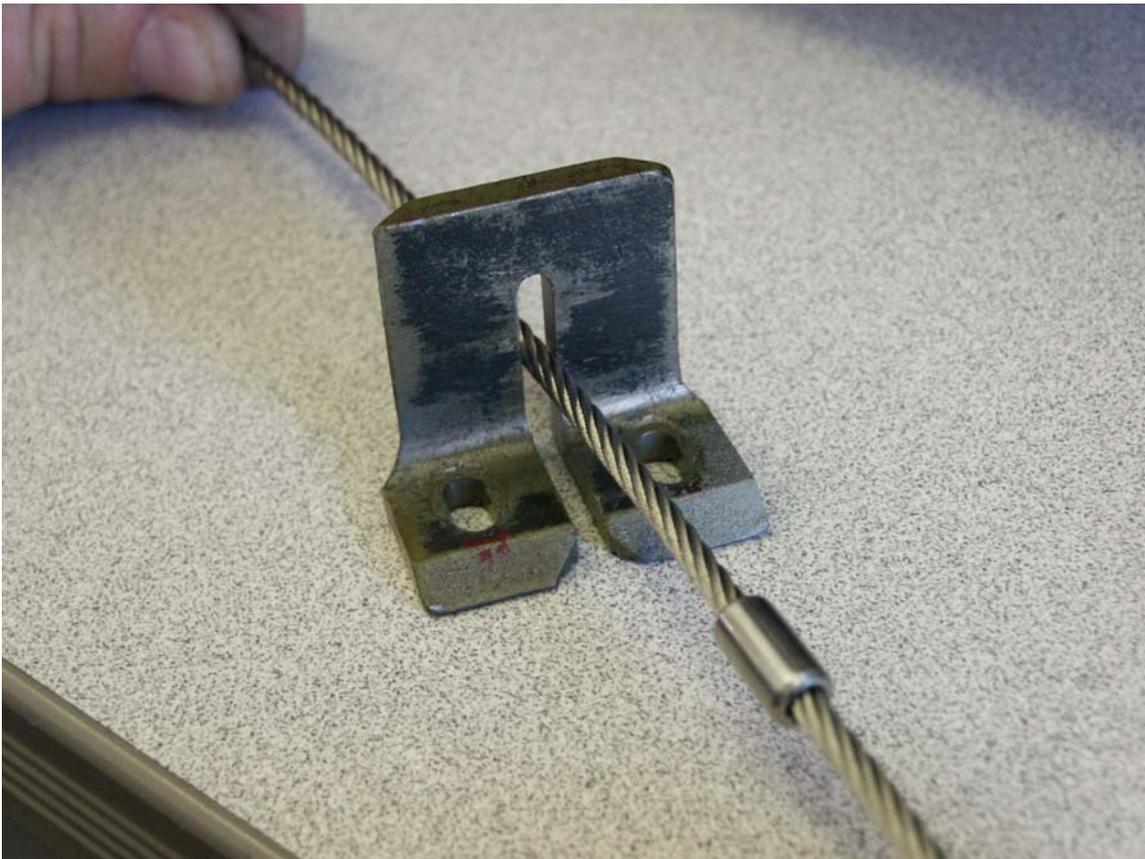


Figure 1. Modified Cable Stop Bracket with Wider Slot for the Larger Cable.

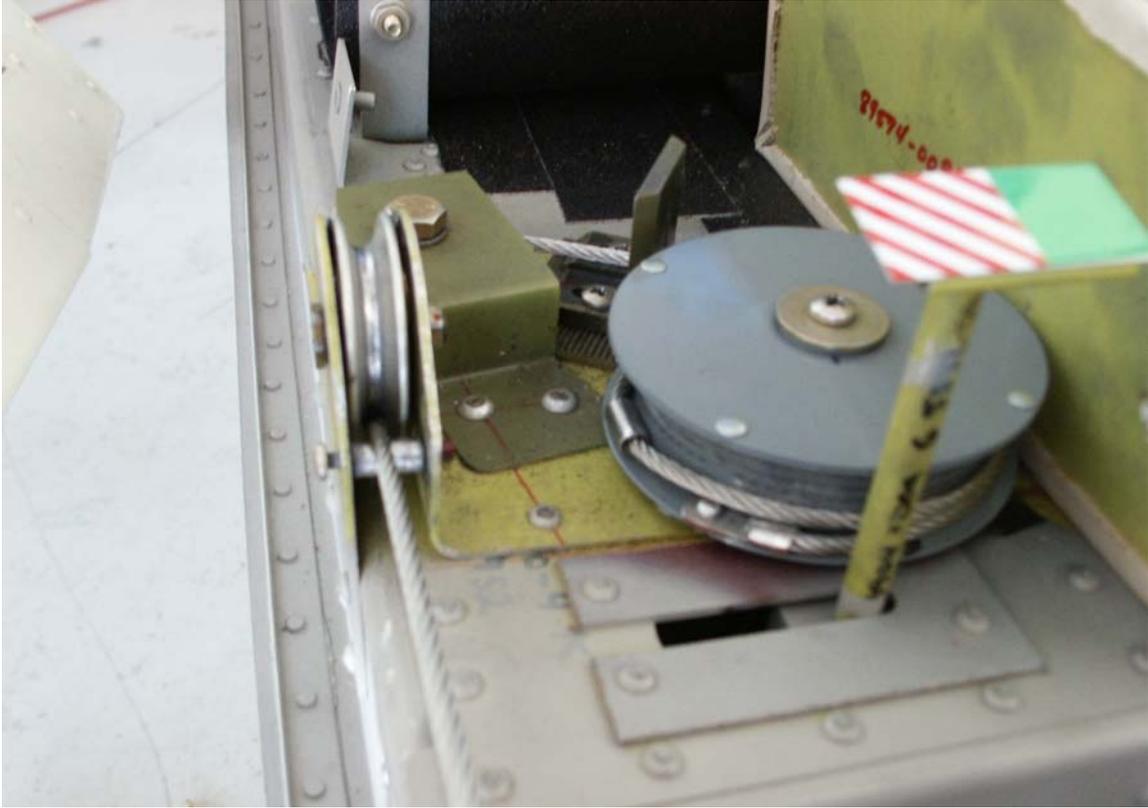


Figure 2. New Cable Installed on Pulley

4. Pull cable in and out making sure there is no rubbing with door open/close post and cable stop bracket, adjust if necessary, re-secure guide wheels. (See Figure 3)



Figure 3. Cables installed on Pulleys

5. Repeat exactly for the opposite cable.
6. Bring lower door to upright position, almost closed. Attach cables to upper portion of entry temporarily. Add AN960-416 washers to aft cable upper attach point screw between cable end and side panel.
7. Close door and make sure cable has equal tension when door is closed as noted prior to cable swap.
8. Lower door and adjust cable stops so that both cables stop together at the cable stops.

D. Modify right side panel

1. Locate right (aft) side panel and open up/grind out cable slot as shown.
(See Figure 4)



Figure 4. Side Panel Modification

E. Panel installation

1. Slide cables through side panel slots and secure cables to upper attach point.
2. Adjust T handle in or out so that cable stops touch brackets simultaneously.
3. Reinstall panels in reverse order from removal.
4. Open and close door completely. Check cables as they pass through slot in side panels for clearance, adjust as necessary. Check panels for security and AC duct for proper mating of side panels.
5. Check for proper operation of door cables.

F. Cable Stop Exchange

1. Return unmodified cable stop brackets to JetPROP for exchange.

If there are any questions, please contact Rich Runyon in Engineering or Steve Nitchman in maintenance at (509) 535-4401.

Sincerely,

Darwin C. Conrad
President
JetPROP, LLC

Attachments

1. Hardware Kit Listing

Replacement Door Cable Kit Parts Listing

Part Number	Description	Quantity
560.14.961	Forward Door Cable	1
560.14.962	Aft Door Cable	1
560.14.964	Forward Door Cable Stop	1
560.14.965	Aft Door Cable Stop	1
MS20615M4-4	Rivet	2