

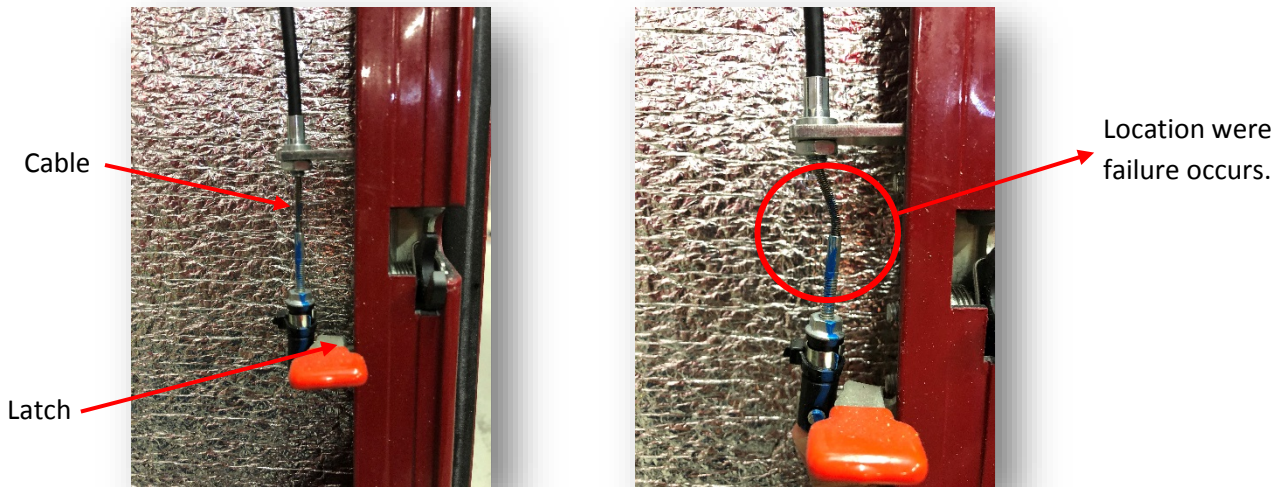
Bulletin #: HTB2018-07.18

RE: ALL HORTON MODULES FITTED WITH TRIMARK CABLE LATCH SYSTEM

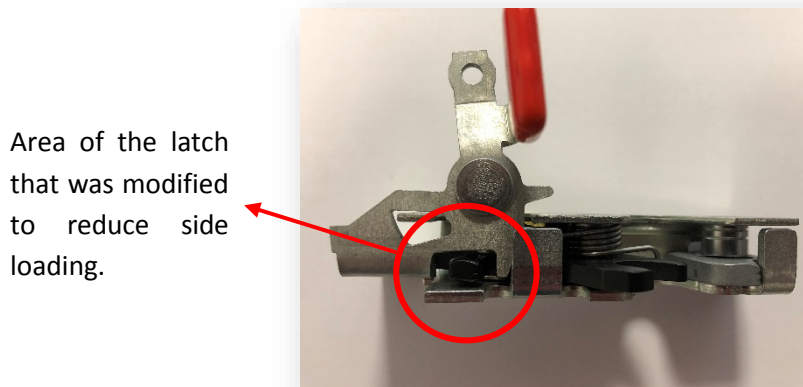
Horton continually works to improve our processes and quality based on feedback from dealers, the warranty team, service, assembly and suppliers.

ISSUE

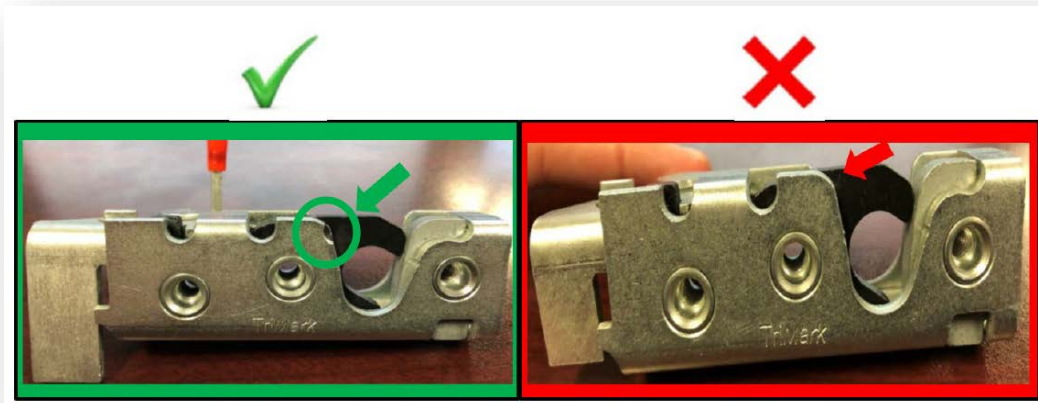
Some vehicles might experience premature failures in the upper and/or lower cables used to trigger the door latches. The situation has been isolated to the curb side entry door. It has been demonstrated during testing that the current latch design adds a small side loading to the cable ends that, in combination with an out of adjustment system, causes stress fractures to the cable strands.



To improve the system reliability, TriMark redesigned the side entry door latches. The new design reduces the possibility of adding the side load to the cable system.



Also, the new latch design has a machined half-moon notch that differentiates it from the previous version.



RECOMMENDED ACTION IN THE FIELD

The proper repair procedure includes:

1. Replace the old latches.
2. Replace upper and lower cables.
3. Verify correct adjustment and operation.
4. Return old latches to TriMark.

SERVICE PROCEDURE

Reference ***Cable and Latch Replacement Instruction for Curbside Entry Door*** attached with this document.

For additional information please contact Jorge Jorge or Bruce Temple.



Horton
EMERGENCY VEHICLES

REV GROUP

Cable and Latch Replacement Instructions for Curbside Entry Door

HTB2018-07.18

Parts and Tools Required

Required Parts (one upper and one lower cable, one upper and one lower latch)(per truck)

Part Number	Part Name	Qty
10017437	Upper cable 66" Head Rm	1
10015902	Upper cable 68" Head Rm	1
10015649	Upper cable 70" Head Rm	1
10015551	Upper cable 72" Head Rm	1
10015552	Upper cable 74" Head Rm	1
10015549	Upper cable 76" Head Rm	1
10015647	Lower cable 453,457,553,603TI,623TI No Drop Skirt	1
10015221	Lower cable 453,457,553,603TI,623TI 3" Drop Skirt	1
10015560	Lower cable 453,457,553,603TI,623TI 6" Drop Skirt	1
10015646	Lower cable 603-MD, 623-MD No Drop Skirt	1
10015648	Lower cable 603-MD, 623-MD 3" Drop Skirt	1
10015902	Lower cable 603-MD, 623-MD 6" Drop Skirt	1
10019283	Upper Latch Standard Release	1
10019048	Upper Latch with Emergency Release option	1
10019284	Lower Latch Standard Release	1
10019049	Lower Latch with Emergency Release option	1
	Gator clips(if needed)	1
10015215,10015212,10015213	Flange nuts , clevis , clevis clips ,1/4-20 nuts(per cable)	2

Required Tools

Tool
#2 Phillips head bit
Cordless drill
Side cuts
Torque wrench in inch lbs
T27 Torx bit
Ratchet
7/16" shallow socket
Small flat head screwdriver
11/32" wrench
2 - 7/16" box wrenches
4 - zip ties
Needle Nose Pliers

Remove door panels as shown

- Using a #2 Phillips head bit and cordless drill, remove inside grab rails and door handle escutcheon (black plastic bezel). Take care to remove wiring plugs for electric door locks (if equipped)



- Remove door strut screws as shown.



Remove Curbside Door Window(if equipped)

- Install painters tape on outside of door on outer window frame to hold window in place.
- Remove screws from inside window frame and remove inside frame only.



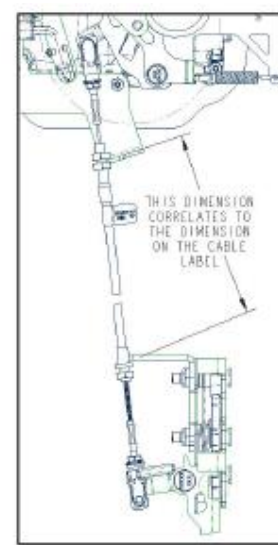
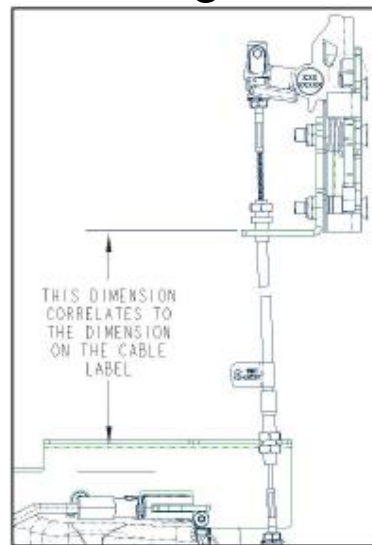
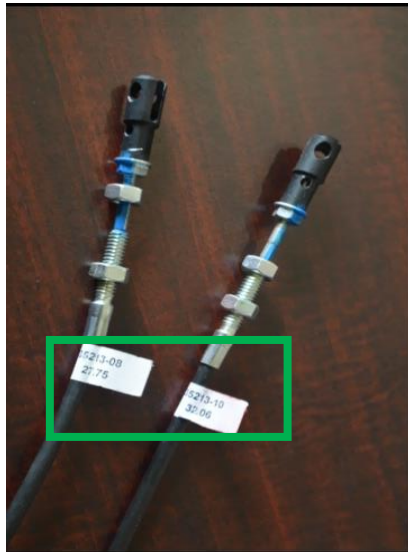
Remove Upper and Lower Inner Door Panels

- Using #2 Phillips bit and cordless drill, remove center panel and set aside.
- Using #2 Phillips bit and cordless drill, remove upper door panel and position as shown in doorway.
- Remove lower panel as shown and set aside.



Remove Upper and Lower Cables

- Using side cuts, remove zipties from clevis clips and discard.
- Using small flat head screw driver, remove clevis clip and discard.
- Using 7/16" wrenches loosen cable nuts on upper and lower cable brackets.
- Remove cables from upper and lower latches and set aside. Take note of the label on the cable and match with new cable with same dash version. The new cables will be marked with a red paint stripe.
- If tag is missing, measure the length between the latch cable bracket to the handle cable bracket to determine correct cable length.



Remove Upper and Lower Latch Brackets

- Using 7/16" shallow socket and ratchet, remove lock nuts and latch brackets as shown.
- Set aside lock nuts and brackets for re-use.



Remove Upper and Lower Latches

- Using T27 Torx bit and ratchet, remove three bolts from upper and lower latches and remove latches from vehicle.
- Retain bolts for reuse.



Replacement Part Identification

- To ensure the correct parts are being replaced, check new latches to verify that the new parts have a machined half moon notch on them as shown.



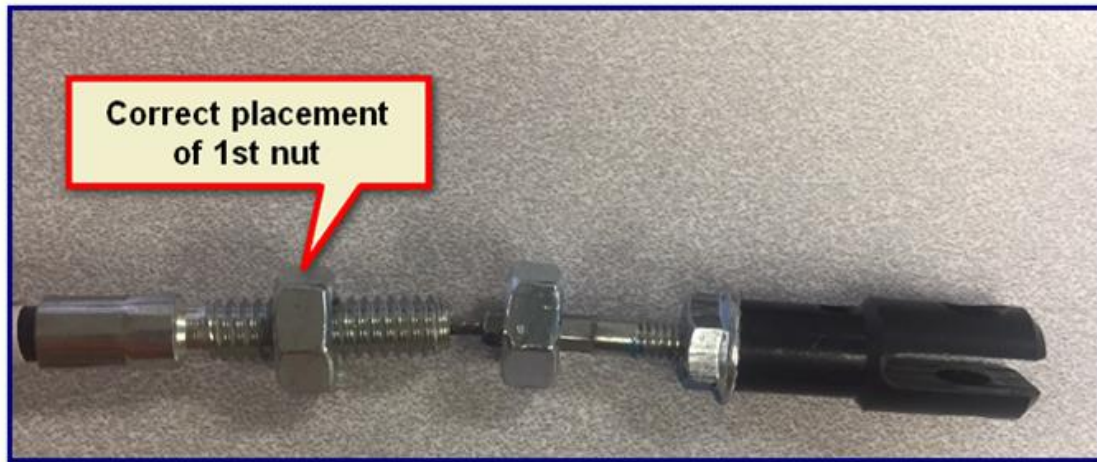
Install Replacement Latches

- Using T27 Torx bit and ratchet, install new upper and lower latches.
- Use Torque Wrench set to **96 - 120** inch lbs to torque bolts to proper rating.
- Re-install latch brackets with lock nuts using 7/16" shallow socket and ratchet.



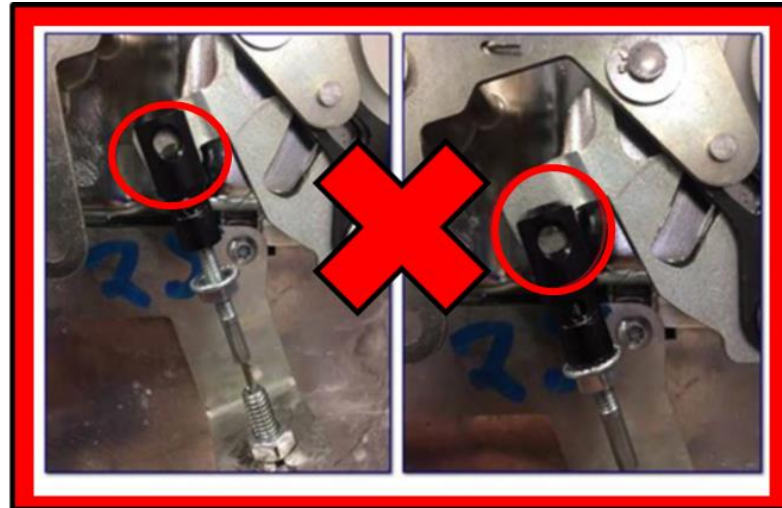
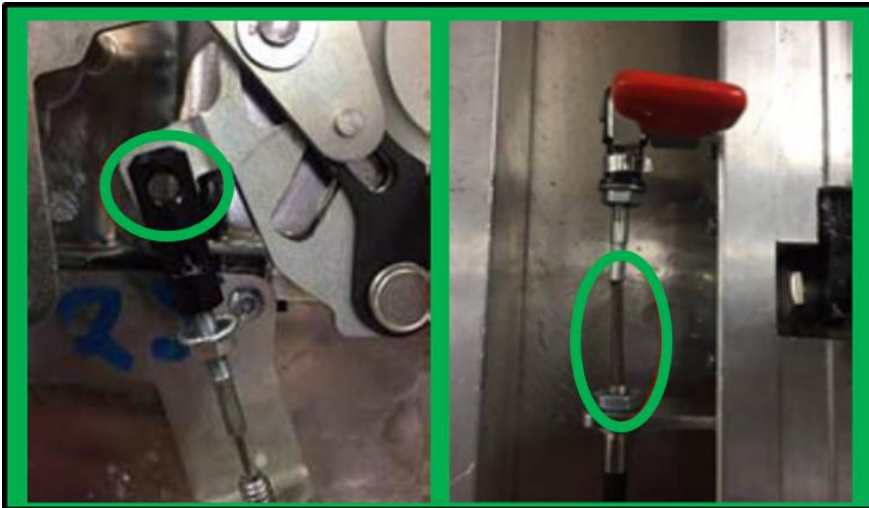
Assemble Cables (if needed)

- Assemble the following items onto the cables as shown in the following order, 2 -1/4-20 nuts, 1 flange nut, and one clevis.
- Take care to ensure that cable nut is threaded to the halfway point of the cable fitting as shown.

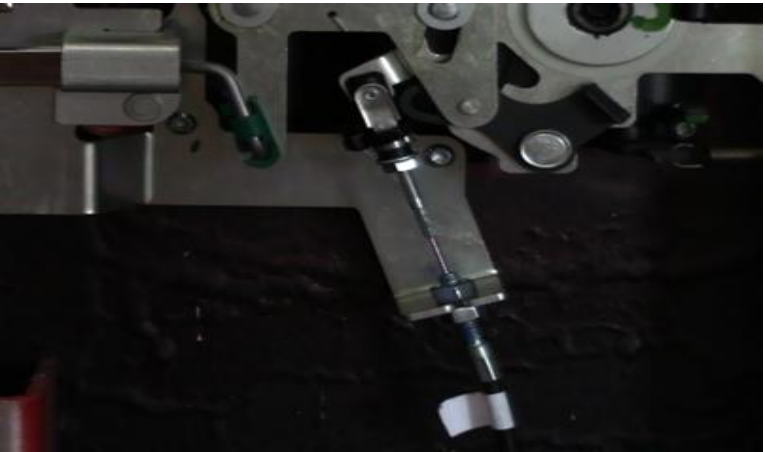


Install Upper and Lower Cables

- Install the end of cable with the compression spring to upper and lower latches using 7/16" wrench while holding round cable fitting with pliers as shown. Do not adjust the preset clevis.
- Install the opposite end of cable to the outside handle cable bracket while taking care to ensure that the clevis is lined up properly with the hole without any preload. Adjust clevis up or down as needed. Refer to video instructions and pictures below to verify this step is followed properly.



Install Upper and Lower Cables Cont'd



Install Clevis Clips and Secure

- Install clevis clips and check timing on the latches.
- Verify cable threaded fitting is visible in cross hole to ensure minimum thread engagement.
- Once timing is set, place zip ties on all four clevis clips and trim excess material.
- Use a 11/32" wrench and torque flange nut against clevis.



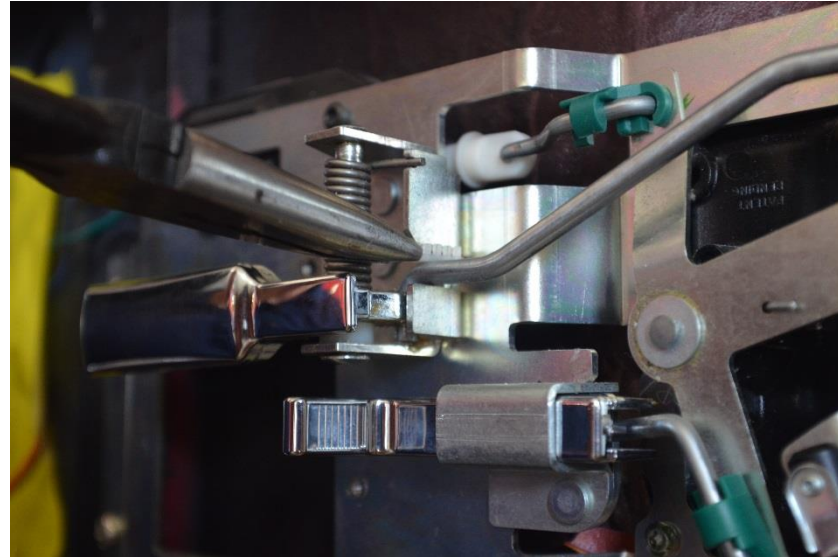
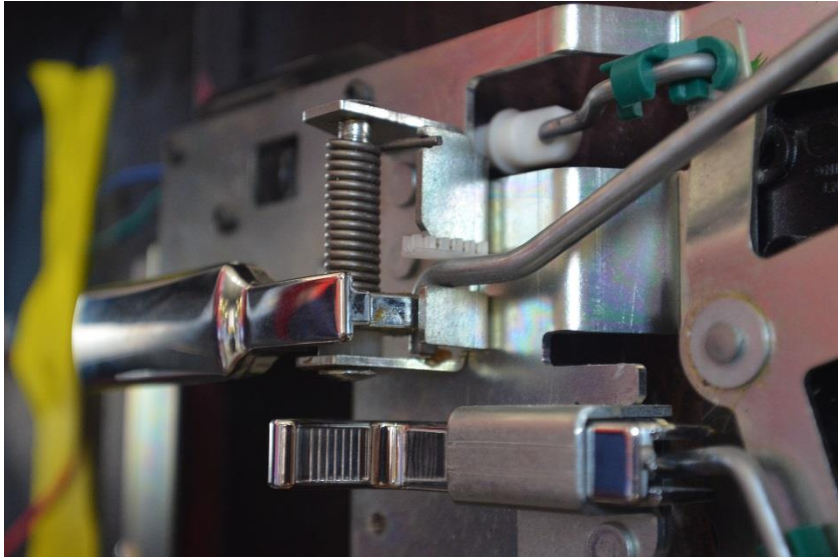
Correct Cable Adjustment



Incorrect Cable Adjustment

Inspect Inner Door Handle for Gator Clip

- Inspect door for proper installation of Gator Clip on bracket above lock rod as shown.
- If missing or out of position, replace with new Gator Clip and remove rear door panels to inspect rear doors for same clip.



Reassemble Door and Verify Repairs

- Reinstall upper and lower and center door panels
- Re-secure door strut to door
- Reinstall inner window frame
- Reconnect wiring for electric door locks and reinstall inner door handle panel.
- Reinstall grab handles (if equipped)
- Verify opening and closing timing of both latches when operating outer or inner door handles.
- Fill out return tag for both latches and turn in to warranty for shipping back to vendor Trimark.



Should you have any problems with this repair or installation instructions contact the Technical Assistance Center (TAC)

614-539-8181 option 2,3 or email to

Technical.assistance@hortonambulance.com