RWRG0020 - Lever Entrapment / Lever Escapes From Shift Blocks

Symptom(s)
• Transmission is stuck in gear but the lever is in neutral or completely out of the shift blocks (able to move at random)
• Interlock system prevents transmission from going into another gear position

Cause
Sometimes the shift lever tip is able to pass between the lugs on the shift blocks or yokes and escapes its intended position. The lever can end up in neutral or outside the gates, with the transmission is still in gear.

Repair Guideline
Remove the shift tower noting the position of the lever tip and see if a shift yoke is in gear. If this is a newer unit verify the lever is correct for the tower in use. Ask the operator which lever position they were attempting when the lever became entrapped. Inspect for witness marks on the sides of the shift block to see if the lever tip extends the proper depth into the shift block or yoke.

On an older unit a worn shift tower is the most likely cause. It could allow the shift lever to ride too high in the shift blocks enabling the lever to escape the blocks. Because of the tapered end of the lever tip, the higher the lever rides, the easier it is to become entrapped.

Also inspect for a larger space between any two of the shift blocks when compared to the others by lightly prying them apart. If the space is large enough for the lever tip to pass through the blocks and or yokes, they and the corresponding shift rails affecting that gear position should be replaced to correct the condition.

1. If the tower is worn replace it. Install a cast iron replacement if possible.
2. If the lever is worn at the ball or tip replace it.
3. If excessive shift block spacing is present, replace the affected parts. It may include 2 blocks, 2 yokes and 2 shift rails depending on the Transmission model and position the lever was in when the entrapment occurred.

Warranty Labor
• Shift Bar Housing R&R per OEM SRT
• Shift Bar Housing Overhaul per OEM SRT

Warranty Coding
Part: Various
Complaint: Lever Entrapment
Failure: Worn

Warranty Disclaimer
If the failure is not the result of an accident, damage, negligence, abuse or misuse, improper installation or maintenance or any other conditions described in the Limits and Exclusions section of Warranty Manual TCWY0600, then Roadranger will treat the condition as covered under its warranty. However, this conclusion does not necessarily mean that a defect in fact exists. In all cases, Roadranger shall make the final determination and interpretation as to the warrantability of the Product.