

UPS Ford F59 Transmission Shifter Reference

8/2/22

Background

- The Ford steering column mounted transmission shifter selector lever, shifter cable, shifter cable transmission mounted bracket and transmission mounted manual lever are removed by the upfitter (National Fleet Service or NFS) and replaced with a new dash mounted shifter selector lever, new shifter cable, new shifter cable transmission mounted bracket and new transmission mounted manual lever.
- Refer to the table below for part # reference by model year and body builder.

Model Year(s)	Transmission	Body Builder	Shifter Cable		Comments
			Orscheln Part #	NFS Part #	
2014-2015	5R110	Morgan Olson and Utilimaster	000-46073-0000	000-46073-0000	Cables 46073 and 46081 are both 113" long and only vary by the screw on ends. Refer to "Prints" tab
2017-2019	6R140	Morgan Olson	000-46081-0000	000-46081-0000	Cables 46073 and 46081 are both 113" long and only vary by the screw on ends. Refer to "Prints" tab
2020-present	6R140	Morgan Olson	000-46121-0000-1	000-46121-0000-1	Morgan Olson cables go through the firewall and are 120" long. Cables are labeled 000-46121-0000
	6R140	Utilimaster	000-46121-0002-1	000-46121-0002-1	Utilimaster shifter cables go through the floor and are 85" long. Cables are labeled 000-46121-0002
Model Year(s)	Transmission	Body Builder	Shifter Only		Comments
			Orscheln Part #	NFS Part #	
2014-2015	5R110	Morgan Olson and Utilimaster	000-91120-0000	TBD	Orscheln would need to run at least 50 for service. NFS to look into upfit kit.
2017-2019	6R140	Morgan Olson	000-91167-0001	000-91167-0001	Supersession history: Originally was 000-91134-0000 (used Jam Nut on the bottom side of the swivel), then 000-91167-0000 (3,2,1 Prindle and jam nut on the bottom part of the swivel), then in 2018 changed to 000-91167-0001 with 4, 2, 1 Prindle
2020-present	6R140	Morgan Olson	000-91267-0001	000-91267-0001	
	6R140	Utilimaster	000-91267-0001	000-91267-0001	
Model Year(s)	Transmission	Body Builder	6R140 Transmission Cable Bracket & Lever Kit		Comments
			Orscheln Part #	NFS Part #	
2014-2015	5R110	Morgan Olson and Utilimaster	000-59576-0000	TBD	Orscheln would need to run at least 50 for service. NFS to look into upfit kit.
2017-2019	6R140	Morgan Olson	000-59582-0000	000-59582-0000	
2020-present	6R140	Morgan Olson	000-59616-0001	000-59616-0001	Supersession history: Originally was 000-59620-0001
	6R140	Utilimaster	000-59616-0001	000-59616-0001	Supersession history: Originally was 000-59620-0001

Background

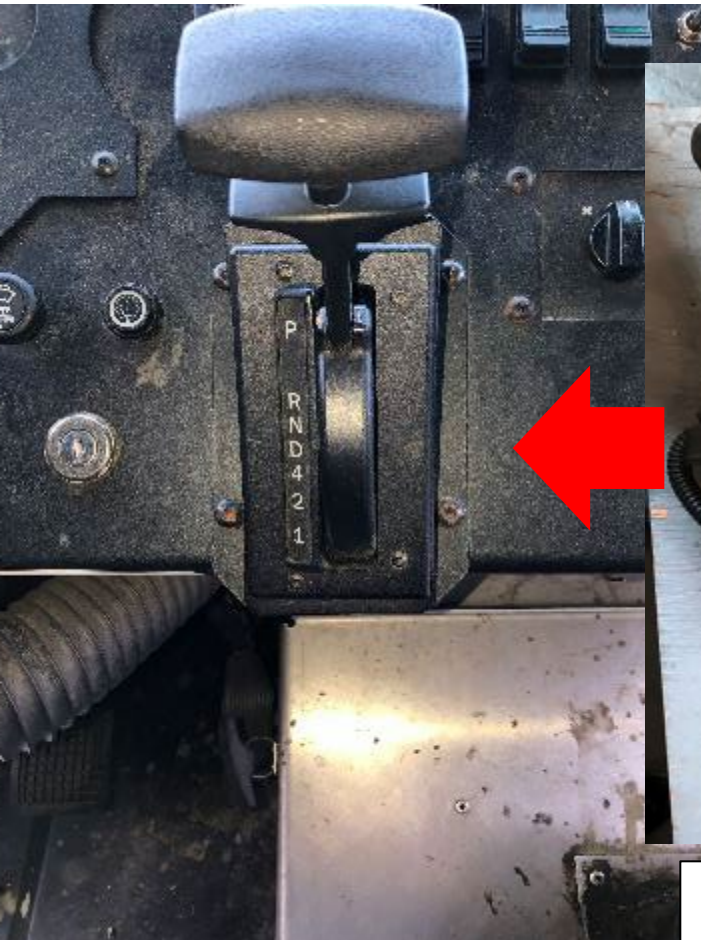
- Refer to the table below for part # reference by model year and body builder (continued)

Model Year(s)	Transmission	Body Builder	Shifter Cable Grommet	Comments
			Supplier Part #	
2014-2015	5R110	Morgan Olson and Utilimaster		
2017-2019	6R140	Morgan Olson	Rubber Products 44000071	
2020-present	6R140	Morgan Olson	Peach State GRO01923372	
	6R140	Utilimaster	Ford PIA to shifter cable LU9Z-7E395-C	
Model Year(s)	Transmission	Body Builder	Shifter Wedge	Comments
			Orscheln Part #	
2014-2015	5R110	Morgan Olson and Utilimaster	000-59009-0000	
2017-2022	6R140	Morgan Olson	000-59009-0000	Utilimaster stopped using the wedge after 2015 and Morgan Olson stopped using the wedge after 2022
Model Year(s)	Transmission	Body Builder	Shifter Assembly (shifter and cable)	Comments
			Orscheln Part #	
2014-2015	5R110	Morgan Olson and Utilimaster		Not available as service part. For reference only
2017-2019	6R140	Morgan Olson		Not available as service part. For reference only
2020-present	6R140	Morgan Olson	000-91188-0001	Not available as service part. For reference only
	6R140	Utilimaster	000-91195-0001	Not available as service part. For reference only

Morgan Olson and Utilimaster Shifter Mounting and Part # Sticker

Morgan Olson uses the wedge type shifter mounting

Utilimaster uses the flush type shifter mounting



Orscheln shifter assembly part # sticker



Morgan Olson and Utilimaster Shifter Cable Part # Sticker

Morgan Olson cable part # 000-46121-0000
120 inches long



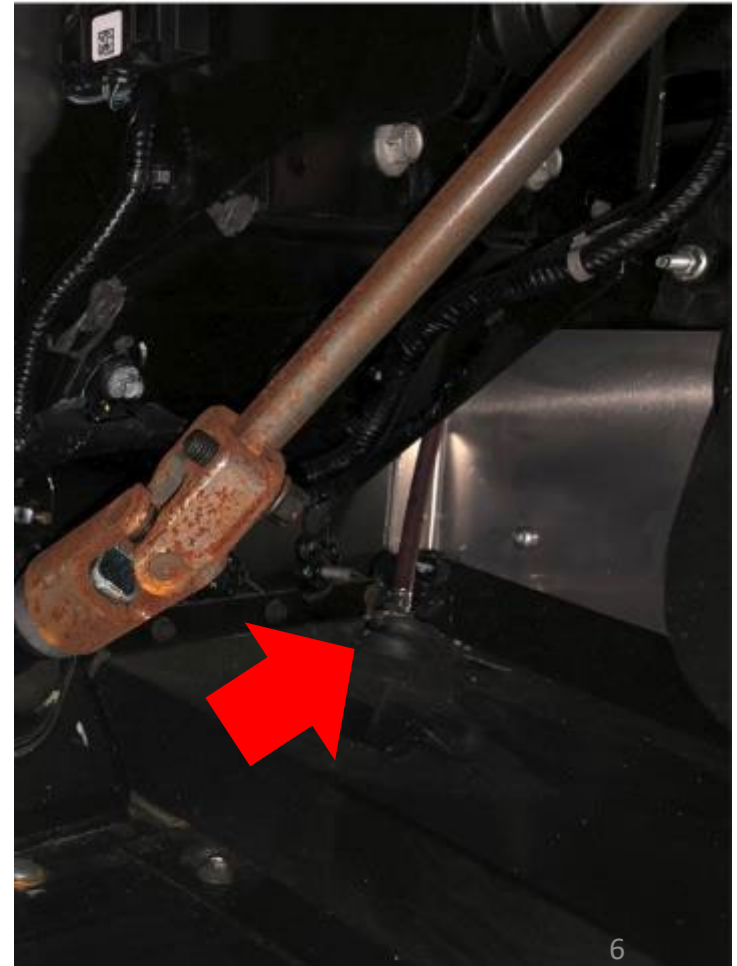
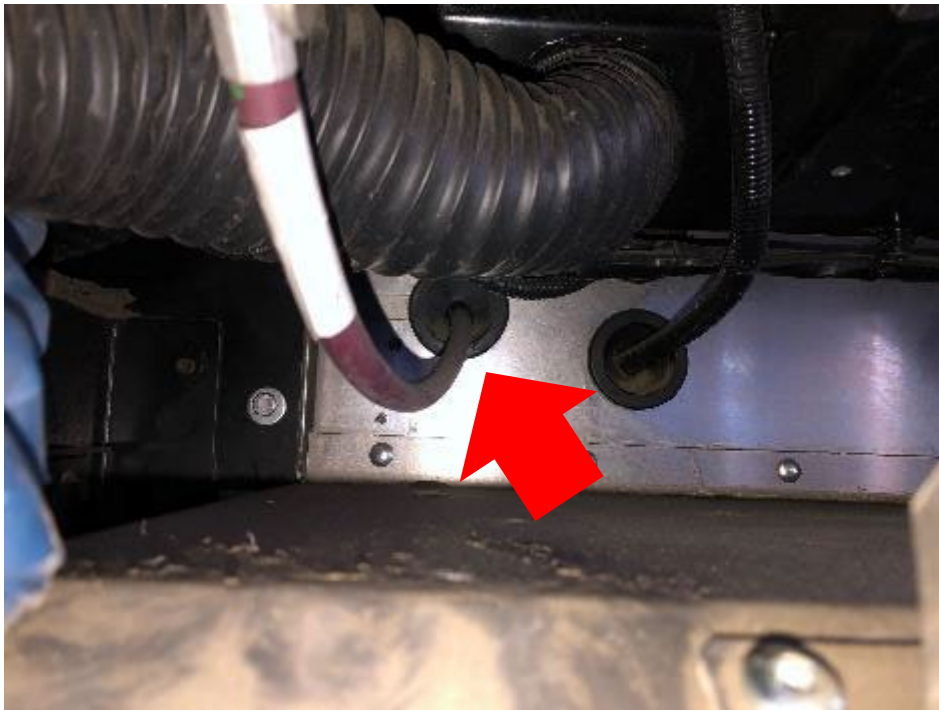
Utilimaster cable part # 000-46121-0002
85 inches long



Morgan Olson and Utilimaster Shifter Cable Routing

Morgan Olson shifter cable is routed through the firewall and longer than the Utilimaster shifter cable

Utilimaster shifter cable is routed through the floor and is shorter than the Morgan Olson cable

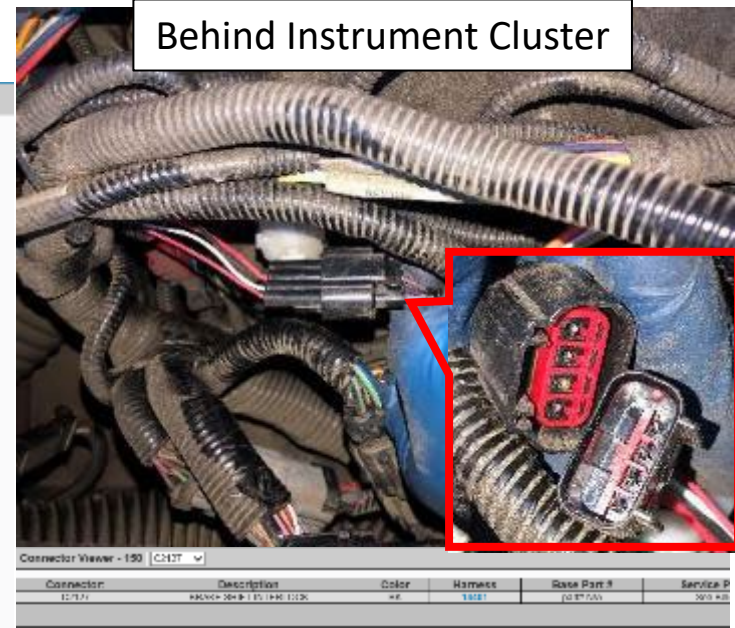
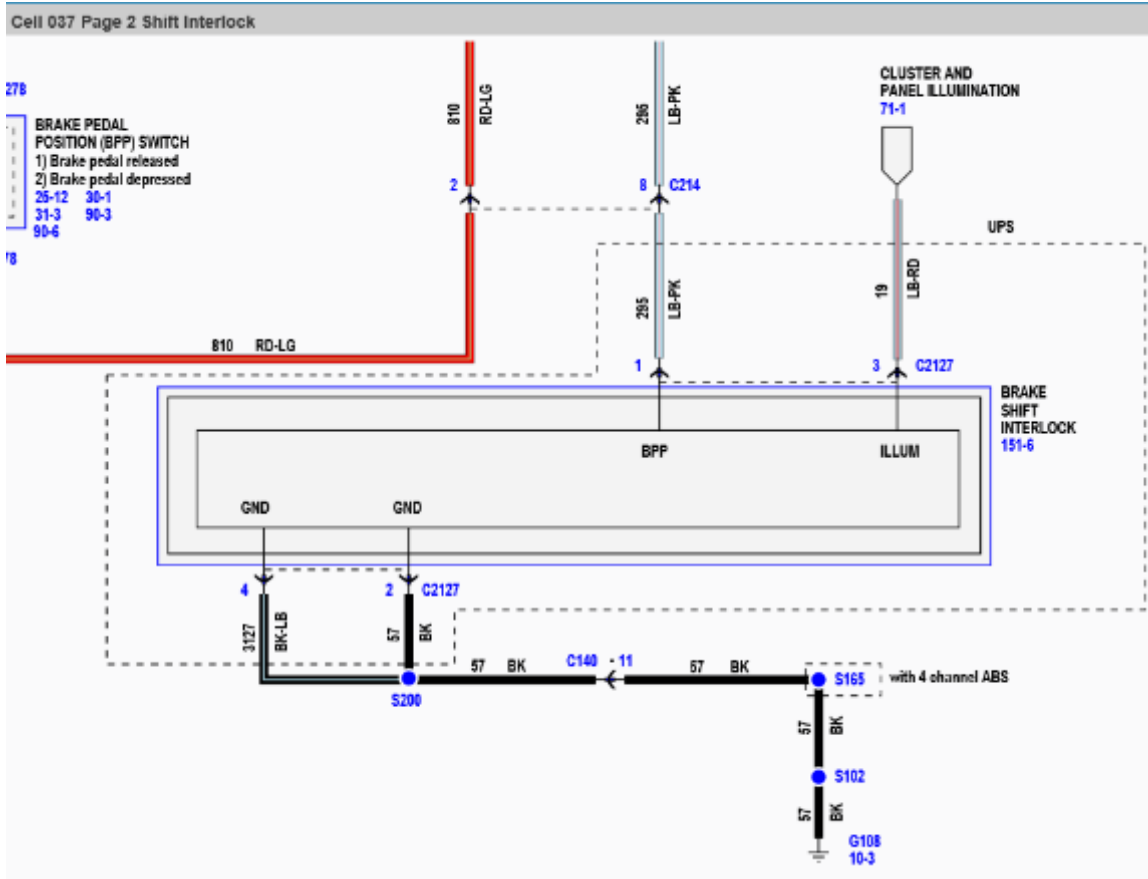


Morgan Olson Shifter Cable Routing Under Hood (Model Year 2017-2019)



Shifter Wiring (model years 2017-2019)

The wiring for the shifter interlock and indicator position light is combined into one 4 pin connector that connects to the Ford 14401 base part # wiring harness. The connector can be found by tracing the wiring from the shifter assembly.



Connector Viewer - 150 C2127

Connector	Description	Color	Harness	Base Part #	Service P
C2127	4-PIN 20-11-15-14-11-12-13	4P	151-6	14401	903-42

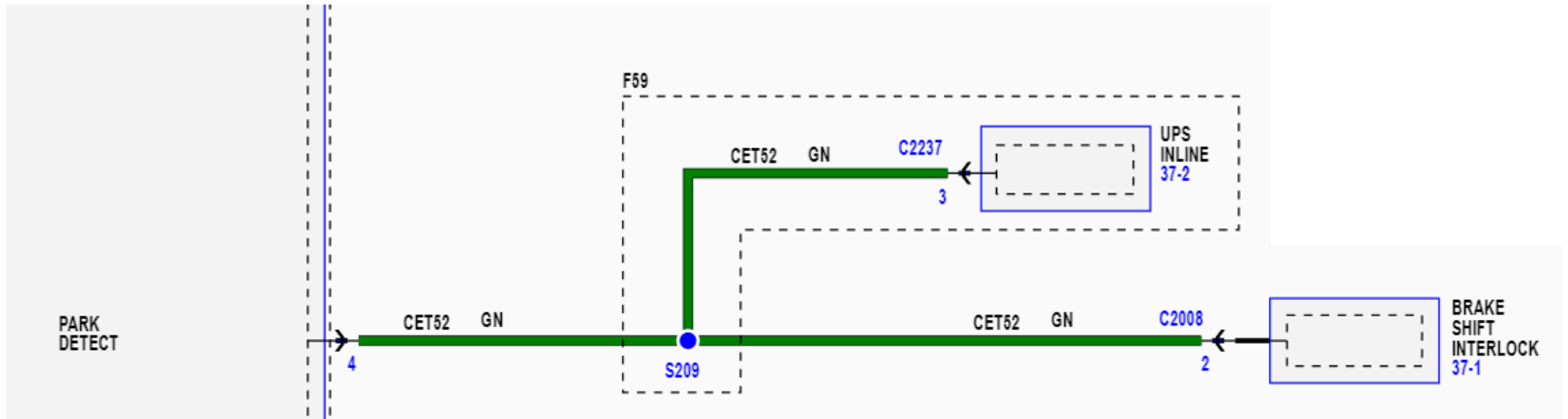
Check for Terminal Pin Numbers

Pin	Color	Gauge	Circuit Function
1	PK/BLK	20	W/LOCK MOTOR, POWER LOCK, POWER UNLOCK, POWER
2	PK/PK	20	250V, LDC
3	TRK/BLK	20	180V, LDC, 180V, LDC, 180V, LDC, 180V, LDC
4	TRK/BLK	20	250V, LDC

Figure 1. Model Year 2019 Shift Interlock Wiring and Connector Example

Shifter Wiring (model years 2020+)

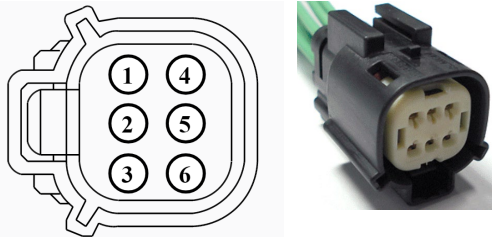
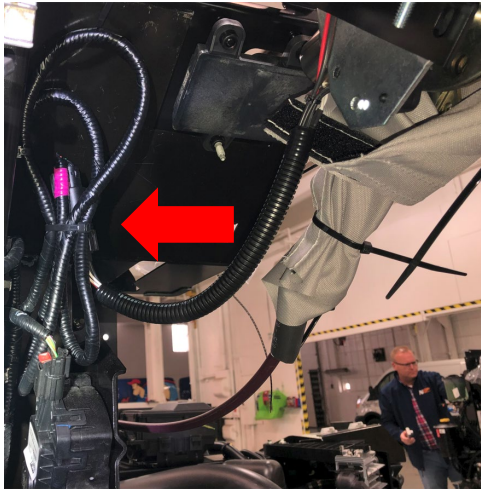
Cell 60, Page 2
IPC



Shifter Wiring (model years 2020+)

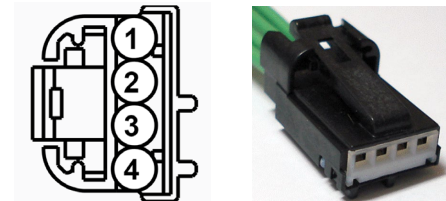
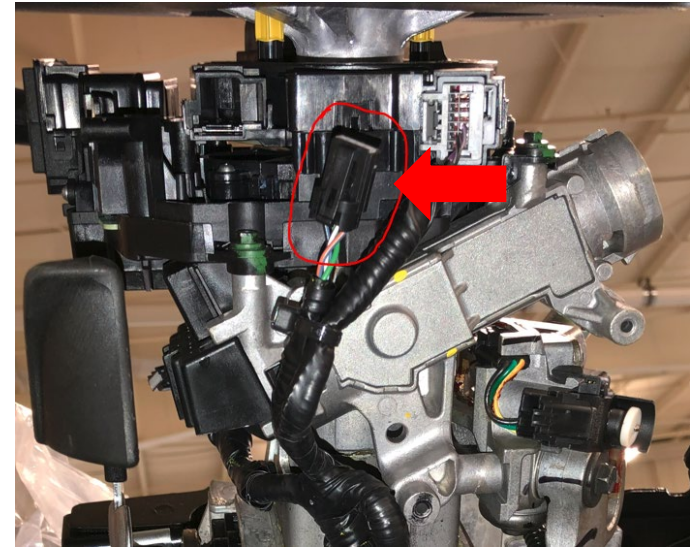
C2237, 14401 harness

Plugged into dash mounted shifter at upfit
(violet tape around harness)



C2008, 14401 harness

Left unplugged at upfit



Pin	Circuit	Gauge	Circuit Function
1	CET53 (BU-OG)	18	CTRL MOD. - POWERTRAIN # BRAKE SHIFT INTERLOCK
2	VLN04 (VT-GY)	20	CTRL MOD. - IP/SWITCH ILLUMINATION
3	CET52 (GN)	20	SWITCH - TRANSMISSION PARK DETECT
4	GD215 (BK-GY)	20	GROUND - INSTRUMENT PANEL STRUCTURE # 2ND POINT
5	GD215 (BK-GY)	18	GROUND - INSTRUMENT PANEL STRUCTURE # 2ND POINT
6	GD215 (BK-GY)	18	GROUND - INSTRUMENT PANEL STRUCTURE # 2ND POINT



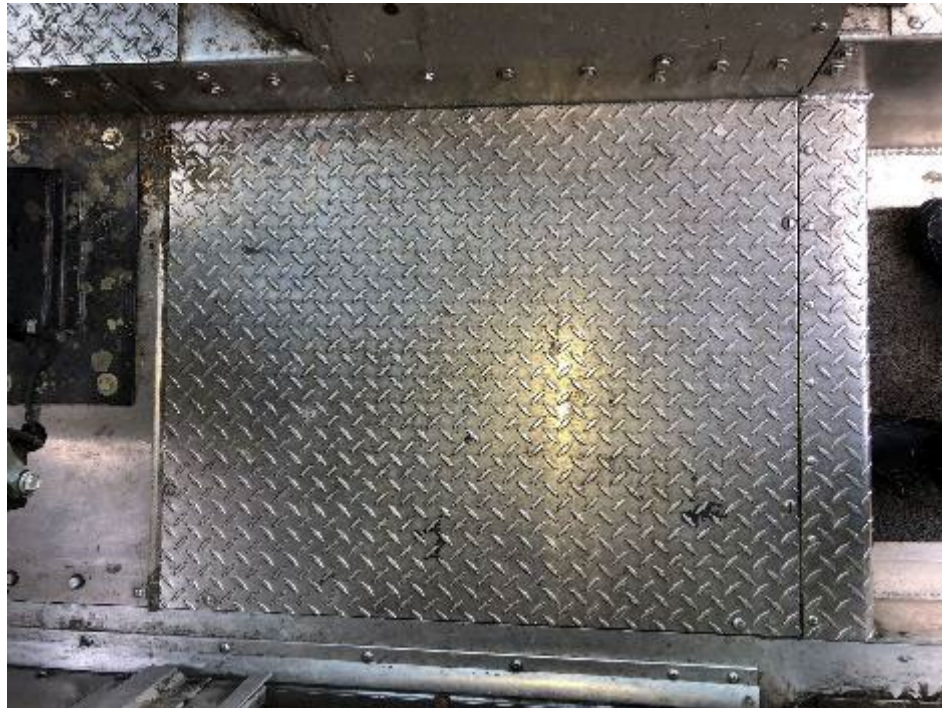
Pin	Circuit	Gauge	Circuit Function
1	GD214 (BK-BU)	20	GROUND - INSTRUMENT PANEL STRUCTURE
2	CET52 (GN)	20	SWITCH - TRANSMISSION PARK DETECT
3	CDC41 (WH-BN)	22	SWITCH - SOLENOID KEY LOCK (INHIBIT REMOVAL)
4	CET53 (BU-OG)	20	CTRL MOD. - POWERTRAIN # BRAKE SHIFT INTERLOCK

Shifter Cable Mounting Bracketry and Manual Shift Lever

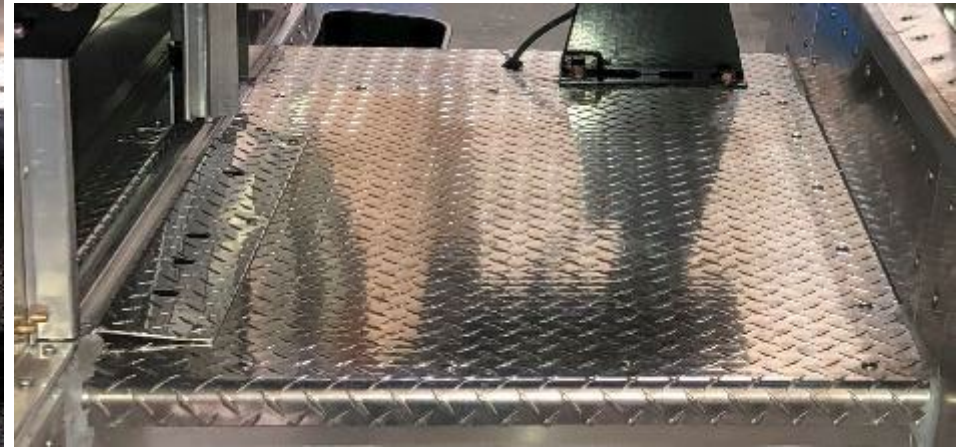
It is best to access the shifter cable mounting bracketry and manual shift lever by removing the transmission cover

These components must be swapped over from the old transmission to the new transmission whenever the transmission is replaced

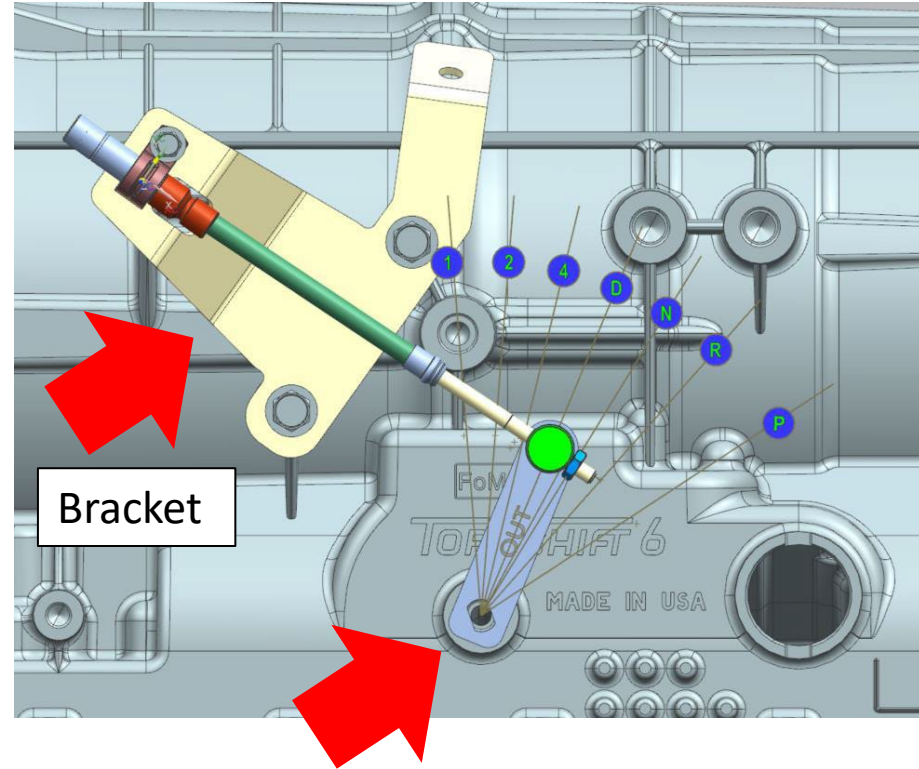
Morgan Olson transmission cover



Utilimaster transmission cover



Shifter Cable Mounting Bracketry and Manual Shift Lever Swap



Shifter Cable Mounting Bracketry and Manual Shift Lever Swap

Transmission manual shift lever that comes on new transmission shown below must be removed and replaced with the manual shift lever from the old transmission

