

# GM 4L80-E External Wire Harness Connector Repair Kit

For Upgrading 1991–1993 Connectors & 1994–Up Repair

Form #4176, Rev. F

PART NOS: 350-0033 & 350-9000

## Disassembly

- Locate and unplug the large round gray connector to the transmission on the current harness. Remove and save any conduit, clamps, etc. for reuse.
- Cut wire approximately 5" from back of the transmission connector.



**NOTE:** If any wires are damaged, adjust splices accordingly.

- Splice the new external harness to wires according to the chart (**Figure 1**).



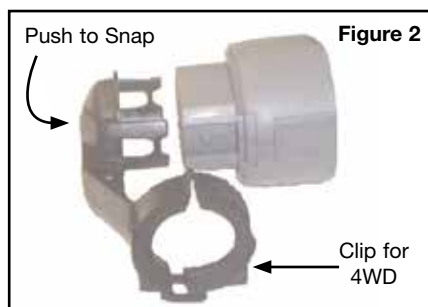
**NOTE:** 1991–1993 pink wire at position "K" is not used with this kit. Tape the wire back to the harness to prevent a possible short.

- Stagger splices approximately 1-1/2" apart (splices should not overlap).

- After the proper lengths of wire have been determined, strip insulation from wires 1/4" to 3/8".
- Position stripped end of wire into sleeve until it stops and crimp with approved crimping tool. Gently pull on the wire to ensure the crimp is secure.
- Apply heat to splice insulation to shrink it around the wire.
- Electrically check for continuity with a meter or tester.
- Reinstall any removed conduit, clamps, etc. and connect the new plug/harness assembly to the transmission.

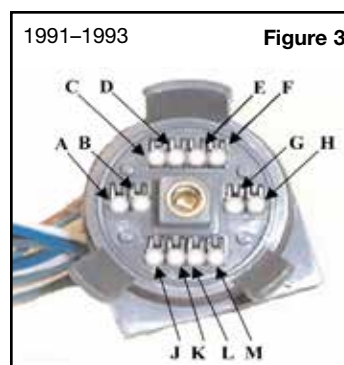


**NOTE:** Four-wheel drive vehicles have a black clip on the back of the old connector to guide the wires around the transfer case. A new one is provided in this kit. Install the clip as shown (**Figure 2**).

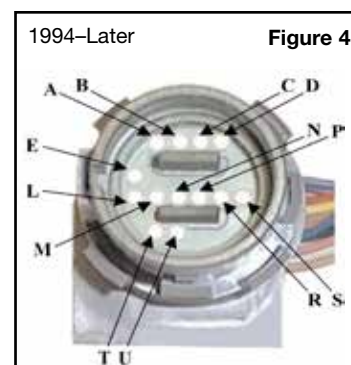


**Figure 2**

**Figure 1**



**Figure 3**



**Figure 4**

Repair Harness		Repair Harness Wire Color	Repair Harness Wire Color	Repair Harness Wire Color (Figure 1)	Repair Harness Wire Color (Figure 2)
Wire Color	Wire Position				
Light Green	A	1–2 Shift	Light Green	A	A
Yellow	B	2–3 Shift	Yellow / Black	B	B
Red / Black	C	PCS High	Red / Black	L	C
Light Blue	D	PCS Low	Light Blue / White	M	D
Pink	E	+12V Ignition	Pink / Black or Pink or Brown	C	E
Black / Yellow	L	Temp Signal	Black/Yellow	G	L
Black	M	Temp Ground	Purple or Black	H	M
Gray	N	PSM Signal A	Pink	D	N
Red	P	PSM Signal C	Red	F	P
Blue	R	PSM Signal B	Dark Blue	E	R
Brown	S	TCC Control	Tan/Black or Dark Blue or Brown	J	S
None	Unused	None	Pink/Black	K	Unused