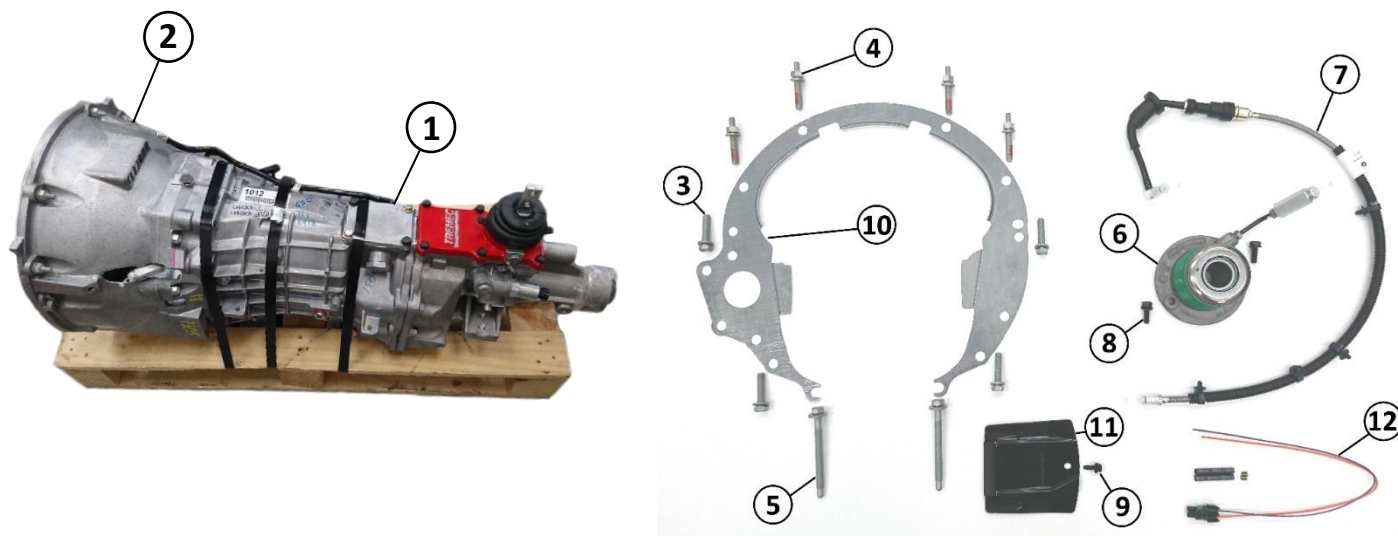




MOPAR TREMEC Magnum 6-Speed Transmission Kit PW100003AB

GEN III Crate HEMI Engines

www.mopar.com



Item	Description	Part Number	Quantity
	MOPAR TREMEC Magnum 6-Speed Transmission Kit	PW100003AB	
1	6-Speed Transmission Assembly	PW100004	1
2	Clutch Housing	68271180AA	1
3	Bell Housing to Engine Bolt	06101985	4
4	Bell Housing to Engine Stud	06507890AA	4
5	Bell Housing to Engine Bolt Long	06505475AA	2
6	Clutch Concentric Slave Actuator Assembly	05038118AB	1
7	Slave Cylinder Tube	04779564AC	1
8	Bolt M8x1.25x25.00 - Slave	06100296	2
9	Bolt Center Dust Cover	06504810AA	1
10	Dust Cover - Trans	04591910AA	1
11	Center Dust Cover for Front Sump Pan	04792978AC	1
12	Backup Lamp Harness	05019910AA	1
13	Delphi Connector 150 Metri-pack Components	See Page 4	

PLEASE READ ALL INSTRUCTION PRIOR TO INSTALLATION.

CALL MOPAR FOR ASSISTANCE OR FOR FRENCH/SPANISH INSTRUCTIONS 1-888-528-HEMI (4364)

MOPAR TREMEC Magnum 6-speed Transmission Kit is intended for all GEN III HEMI Crate Engines. Compatible with clutch assembly included in 345, 392, and 6.2L Supercharged crate engines.

- Torque Capacity: 700 lb.-ft.
- Input: Hydraulic clutch, 26 spline
- Output: Slip yoke, 31 spline

<i>Gear</i>	<i>1st</i>	<i>2nd</i>	<i>3rd</i>	<i>4th</i>	<i>5th</i>	<i>6th</i>	<i>Reverse</i>
Ratio	2.97:1	2.10:1	1.46:1	1.00:1	0.80:1	0.63:1	2.90:1

Clutch Fluid is **REQUIRED** as clutch slave assembly does not come pre-filled.

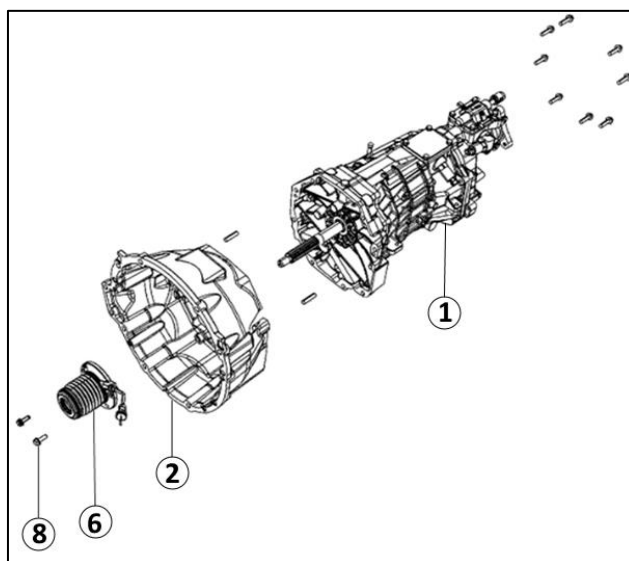
We recommend you use MOPAR DOT 3, SAE J1703 (04318080AD). If DOT 3 brake fluid is not available, then DOT 4 is acceptable.

Transmission Fluid is **REQUIRED** as transmission assembly does not come pre-filled.

We recommend you use MOPAR ATF+4 Automatic Transmission Fluid (68218057AB). Capacity: 3.2 Liters (3.4 Quarts).

1. Transmission assembly will be partly pre-assembled. Clutch housing (2), dowel pins and clutch housing to transmission bolts will be all pre-assembled to the transmission (1).

2. Install the clutch concentric slave actuator (6) using M8x1.25x25 bolts (8). Torque bolts to 28 N·m (21 ft. lbs.).



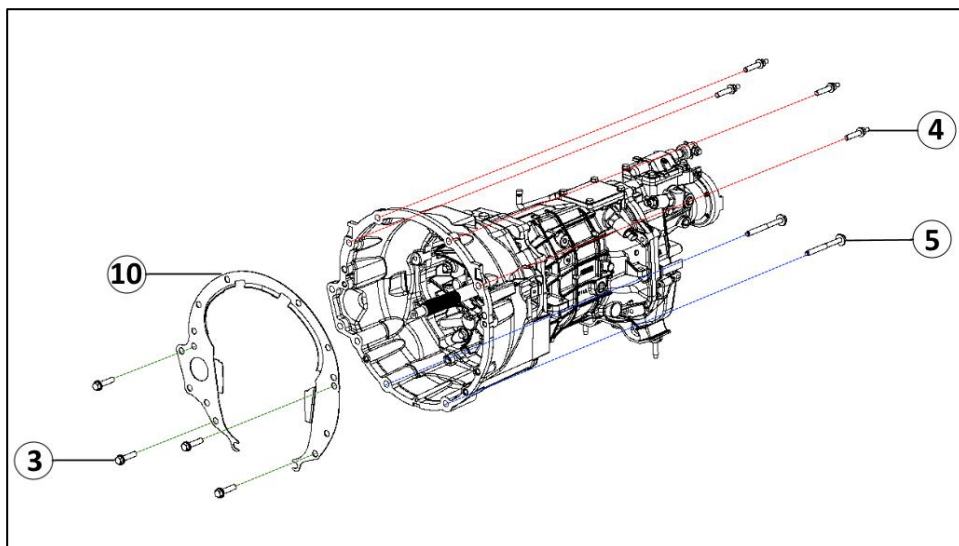
3. Dust cover (10) is to be placed between the transmission and engine.

4. Install long bell housing to engine bolts (5).

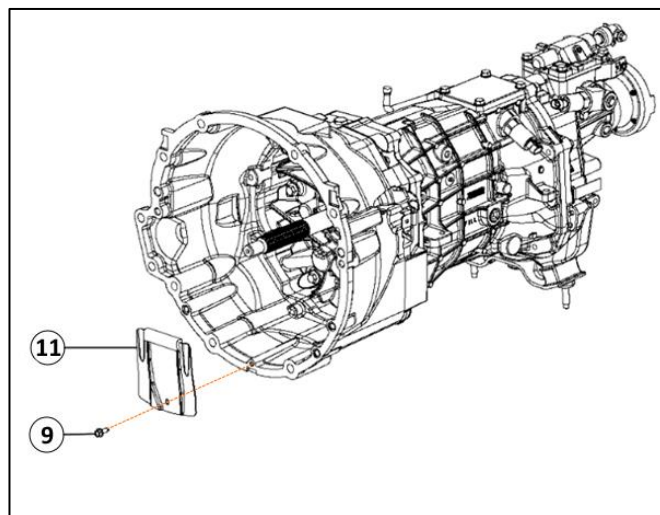
5. Install bell housing to engine bolts (3).

6. Install bell housing to engine studs (4).

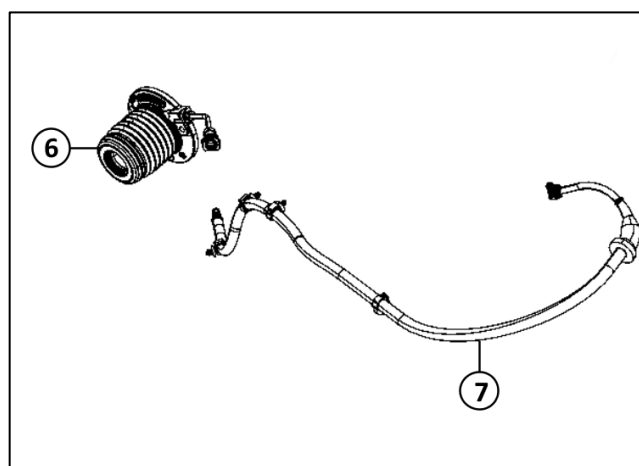
Tighten and torque all bell housing to engine bolts and studs to 45 N·m (33 ft. lbs.).



7. Front sump oil center pan dust cover (11) and bolt is included with the transmission kit. Torque dust cover bolt (9) to 11 N·m (95 in. lbs.).



8. Connect slave cylinder tube (7) to slave cylinder (6), and use appropriate clutch master to slave tube hose to complete system for the application.



9. Bleed clutch system.

NOTE:

- Be certain the clutch pedal returns to the upper most position while bleeding the clutch system.
- It may take as many as two hundred strokes of the clutch pedal to properly bleed the clutch system.
- It is recommended to vacuum bleed the clutch system to reduce the air within the clutch system

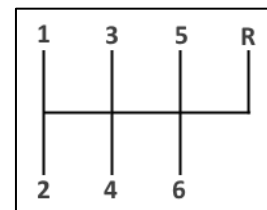
1. Check the fluid level in the brake master cylinder reservoir. If the brake fluid level is not up to the step in the reservoir, add brake fluid.
2. Slowly depress the clutch pedal.
 - a. If the pedal feels hard in a short distance, air is present in the clutch slave cylinder.
 - b. If the pedal feels spongy, air is present in the clutch master cylinder.
3. Continue checking the fluid level while depressing and releasing the clutch pedal. Depress and release the clutch pedal until an appropriate clutch pedal response and feel is achieved.

Starter

Ensure the correct starter is selected for the transmission and flywheel combination. A starter nose spacer may be required for the starter motor to properly engage and spin the engine. The recommended starter for 345, 392, and 6.2L Supercharged Crate HEMI engines is part number 68066177AA.

Shifter

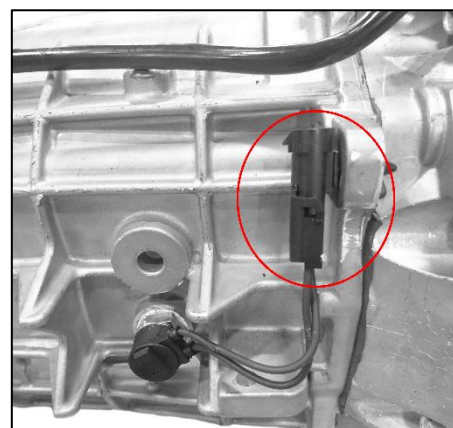
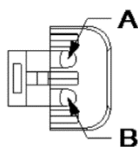
There are three shifter locations available on the transmission. Additional parts that are not included in this kit may be needed to achieve the desired shifter location. A shifter lever and shift knob are required to be installed.



Transmission Harness

The reverse light switch is located on the right side of the transmission. Use included pigtail kit part number 05019910AA for the reverse light switch. The reverse light switch is normally open, when in reverse gear the switch is closed.

Pin	Function
A	Ground
B	Backup Lamp Switch Ground Signal



The reverse lock-out solenoid is located on the left side of the transmission. The solenoid can be left disconnected, however when left disconnected it would **require greater physical force** to move the shifter into reverse position.

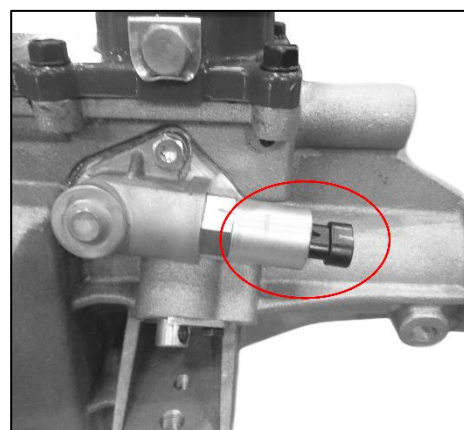
To ease the use of reverse gear, connect a momentary switch to the ground (pin B) that can be activated only when selecting reverse gear.

NOTICE

Power should **NOT** be applied to the solenoid at all times.

Do **NOT** remove the solenoid from the transmission assembly.

Unintentional engagement of reverse gear may result and cause damage to the transmission assembly.



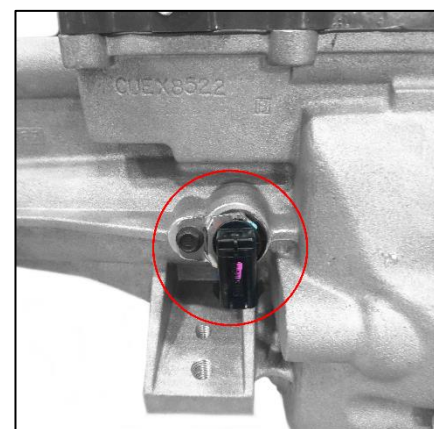
Delphi connector components are included to assemble a harness using 18-16 AWG wire.

Part	Part Number	QTY
Connector 150 Metri-pack (2 Pin)	12052646	1
150 Metri-pack Female terminals sealed	12048074	2
150 Metri-pack cable seal (Tan)	12084193	2
TPA 150 Metri-pack (2 Pin)	12052634	1

Pin	Function
A	12V Input (20A max fused)
B	Ground

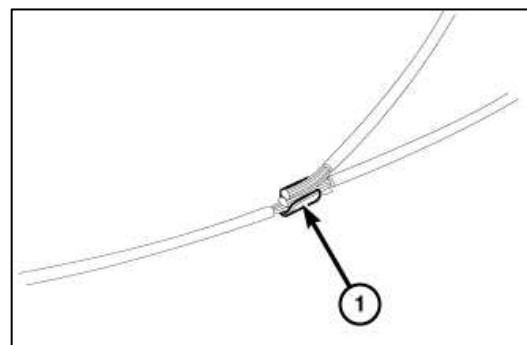


The speed sensor is located on the right side of the transmission. This speed sensor has a sine wave output. Sine wave output is **NOT** compatible with CAN Bus Interface Device (77072456). The CAN Bus Interface Device requires a square wave output.

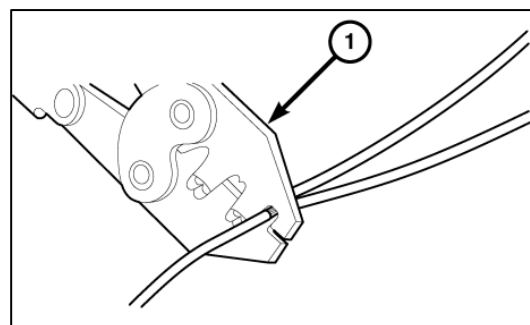


How to splice and connect blunt ends correctly

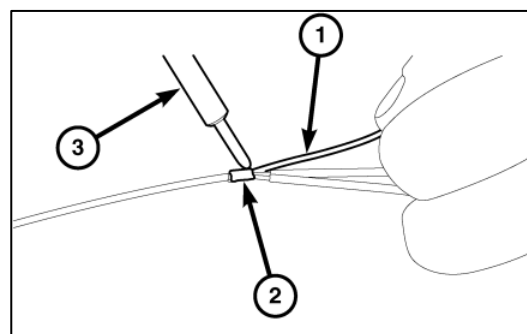
1. Place the strands of the wires overlapping each other inside of the splice clip (1).



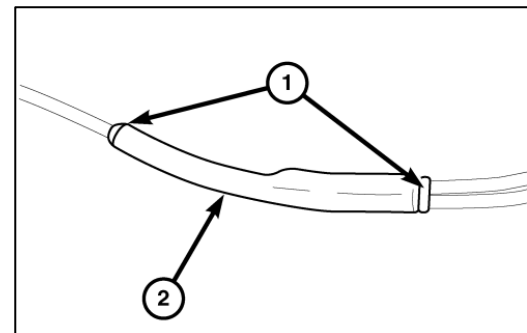
2. Using Mopar crimping tool (1) or equivalent, crimp the splice clip and wires together.



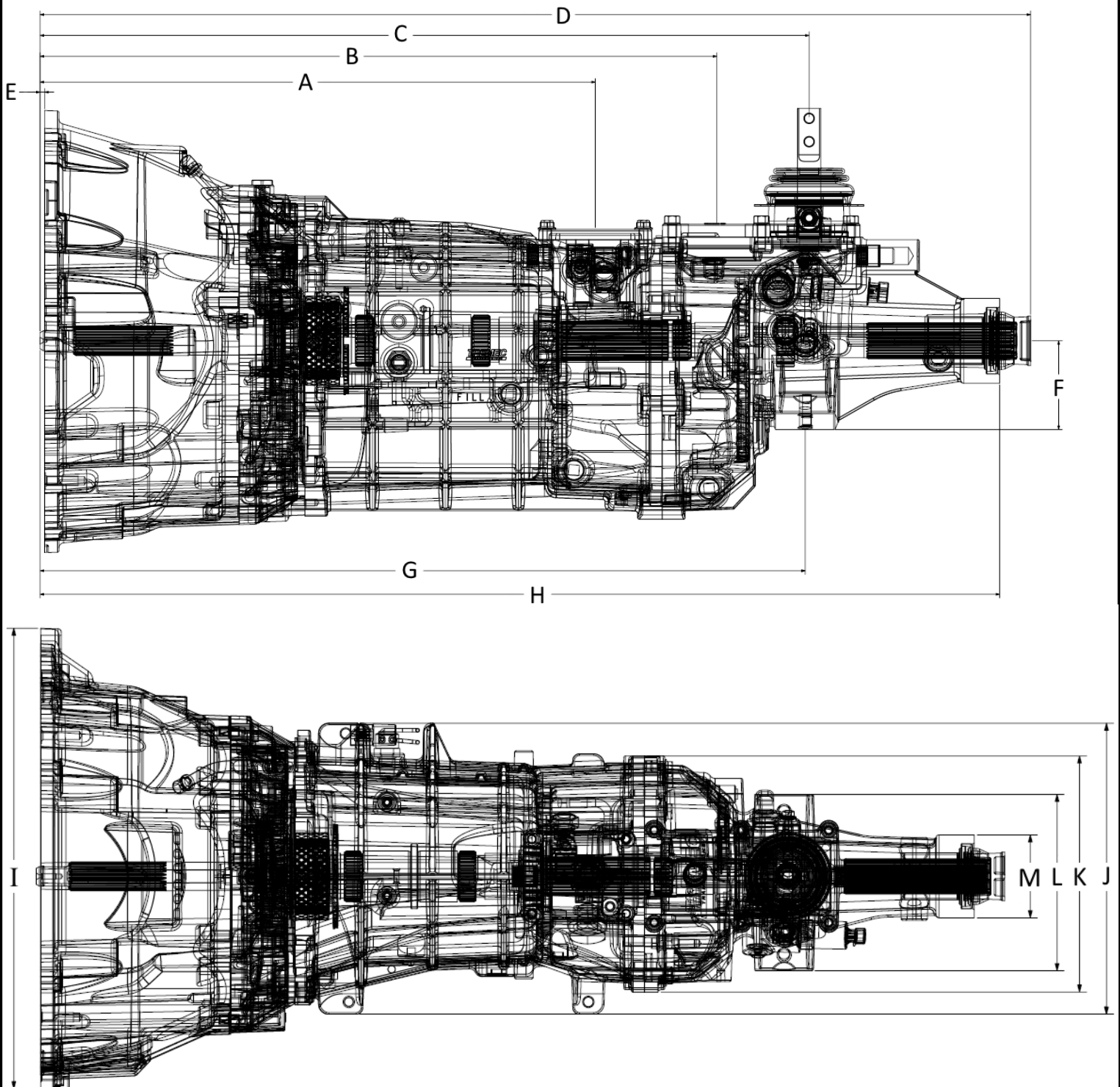
3. Solder (3) the connection (2) together using rosin core solder (1).



4. Center the heat shrink tubing (2) over the solder joint and heat using a heat gun. Heat the joint until the tubing is tightly sealed and sealant (1) comes out of both ends of the tubing.



Transmission Dimensions



Dimensions (mm)					
A	532.42	F	85.05	I	451.14
B	649.02	G	733.67	J	285.00
C	737.50	H	920.18	K	231.43
D	949.96			L	172.73
E	4.48			M	81.25