

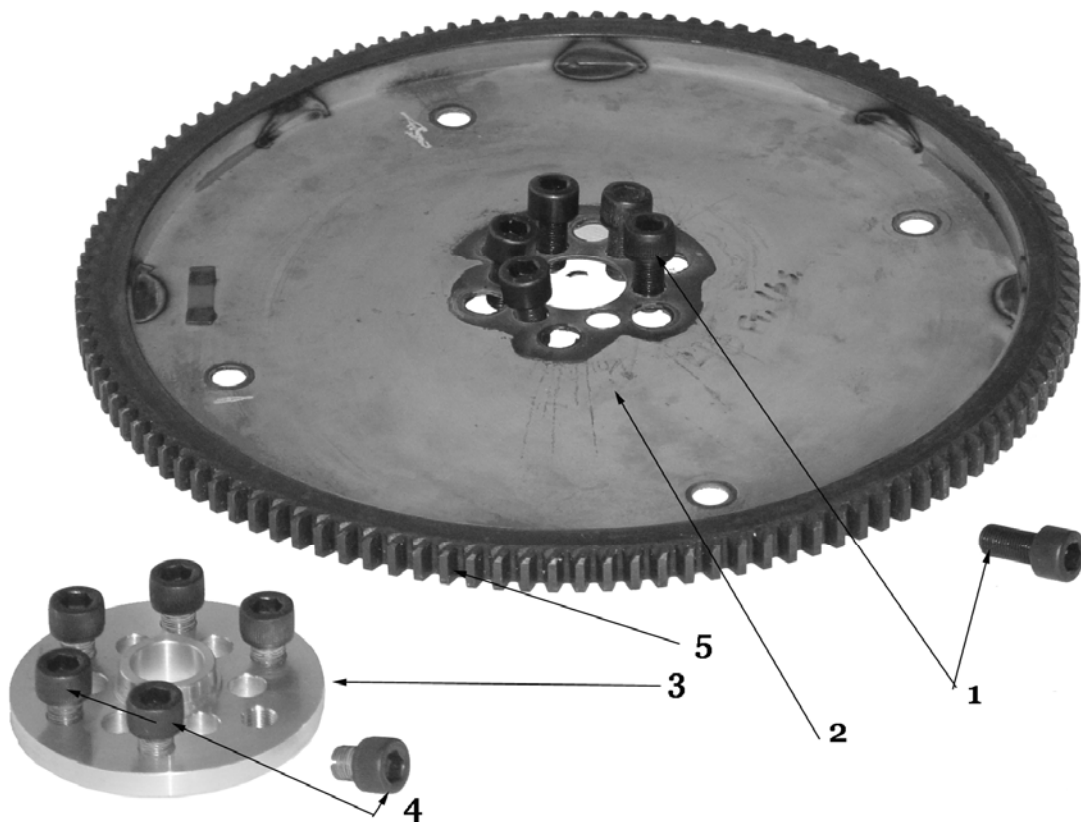
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Parts Description - Automatic Transmission Flex Plate and Adaptor

NO	Parts Description	Part Number
1	Crank Bolt through Flex Plate (Torque~ 50nm = 35lbs)	M10X1.0X20 MM
2	Automatic Flex Plate	AMC 133090
3	Flex Plate to Crank Adaptor	FPA-01
4	Flex Plate Bolt (Torque~ 50nm = 35lbs)	M10X1.0X9MM
5	Starter Gear (Non replaceable)	Standard

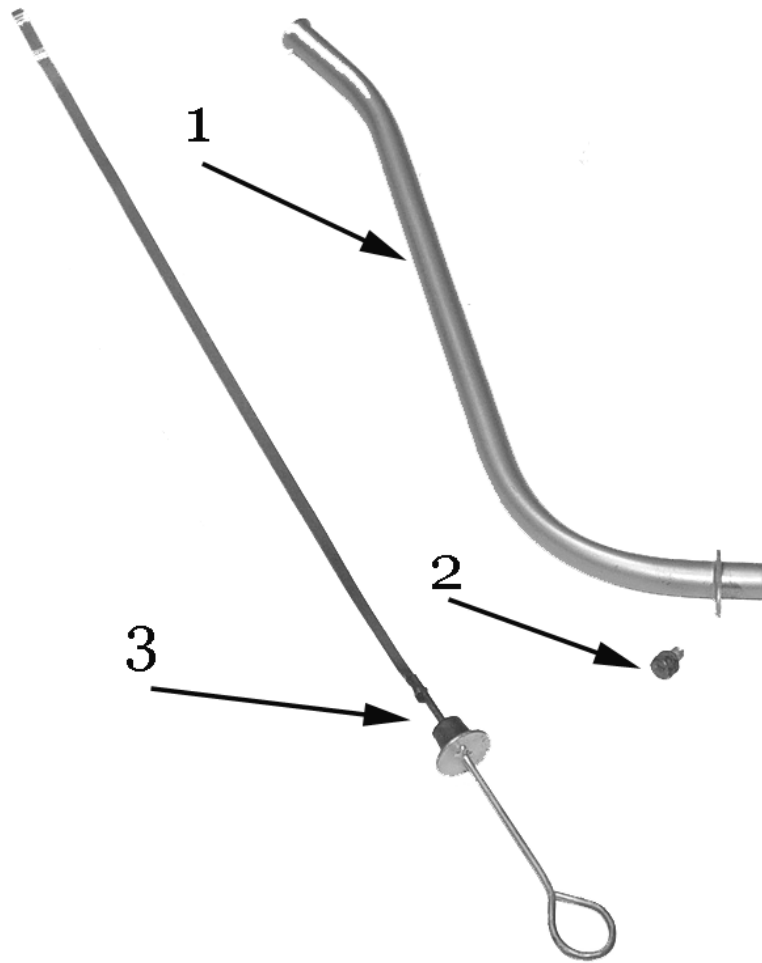


Service Notes:

- When installing the Flex Plate use specified Torque Settings on All Bolts.
- Use Red Lock Tight on fastening bolts.
- Tighten bolts with a Torque setting of 50 n.m~ 35 flbs

Parts Description – Automatic Transmission Dip-stick

NO	Parts Description	Part Number
1	Dip stick Tube	3N71B-D-STICK
2	Bolt	M10X1.00X2
3	Dip Stick Insert	3N71B-D-INSERT

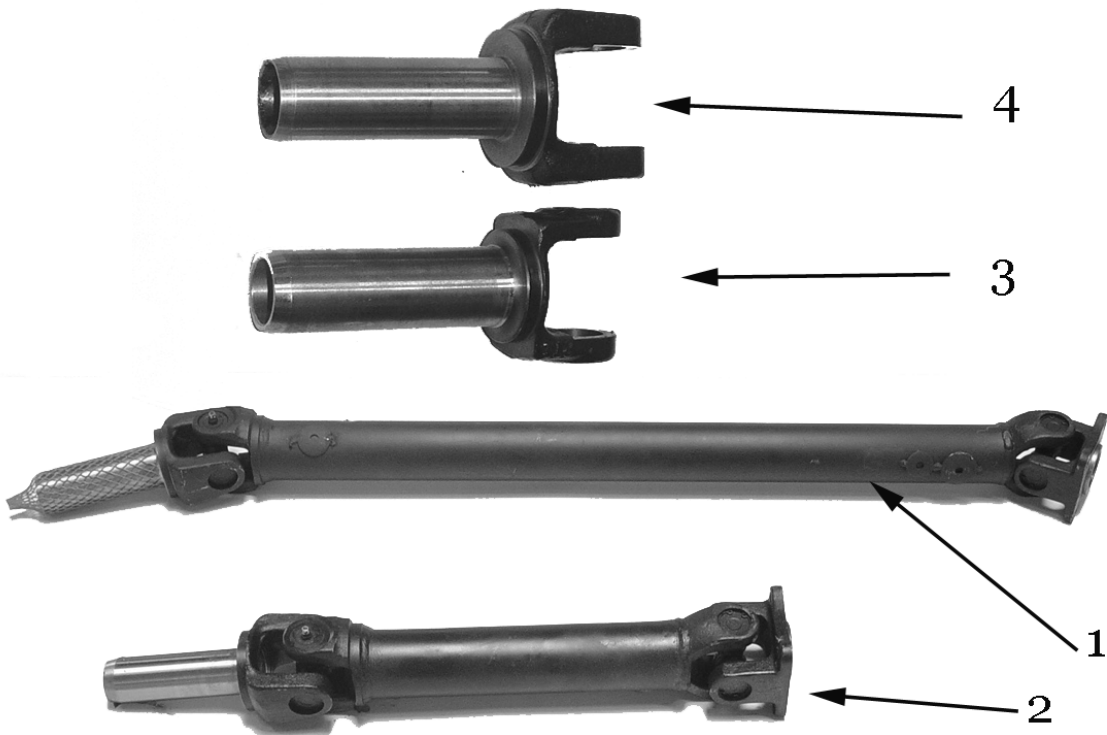


Service Notes:

- Check fluid level while vehicle is running in PARK on a level surface. Use only Dextron III/ Mercon fluid. Total capacity 7.5 qts.

Parts Description - Automatic Transmission Drive Shafts

NO	Parts Description	Part Number
1	Long Drive Shaft (T- Mag XXC)	DS-XXC
2	Short drive shaft (T-Mag SC, Cargo and Passenger Van)	DS-SC-C-P
3	Yoke # 3 (Small Tail Shaft Automatic Transmission)	PTI1203-24
4	Yoke # 4 (Large Tail Shaft Automatic Transmission)	PTI1203-26S

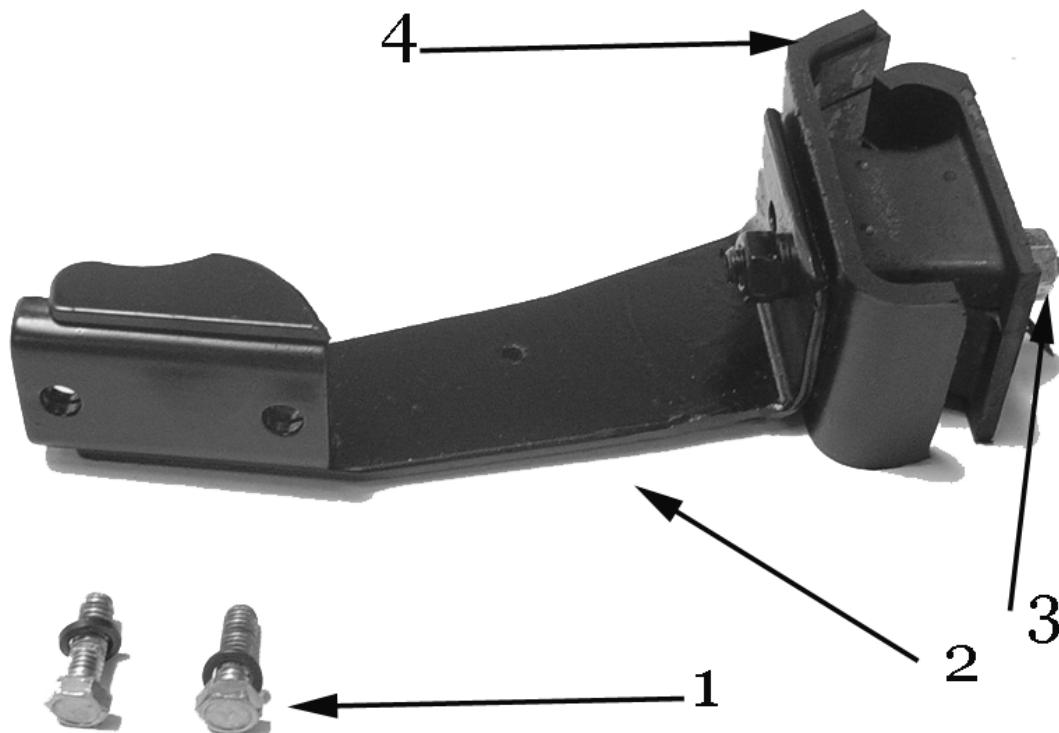


Service Notes:

- Yoke can vary from Transmission to transmission
- Two different sized drive shafts currently exist
- When ordering or replacing be sure to use the correct sizes
- Drive shafts should always be balanced and true

Parts Description - Automatic Transmission, Engine Mount (Right Only)

NO	Parts Description	Part Number
1	Engine mounting Bolts	465Q-1001805
2	Engine mount	465Q-1001800A
3	Rubber Mount (Nut)	Q341C10
4	Engine Front Mounting rubber	465Q-1001802



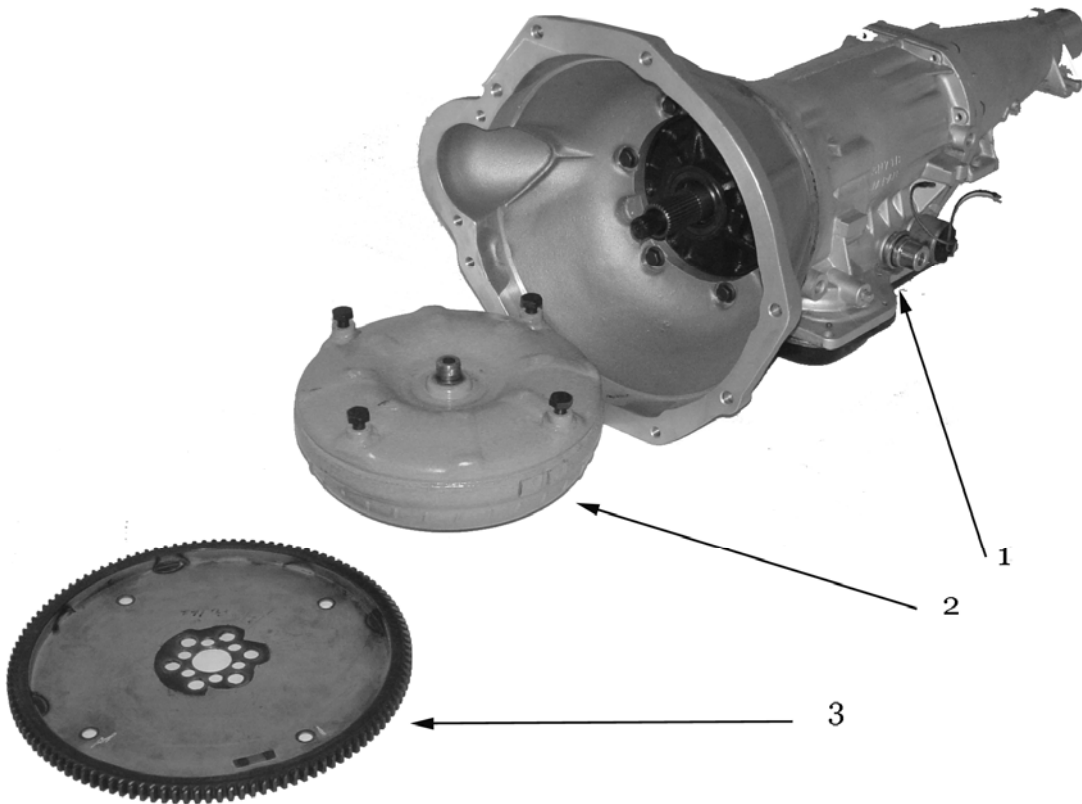
Service Notes:

To remove the engine mount,

- Using a jack, support the weight of the motor from underneath.
- Loosen the nut attaching the rubber engine mount to the frame, and then remove the two bolts from the engine.
- The engine mount can then be removed from the top.

Parts Description - Automatic Transmission Flex Plate, Torque Converter, Transmission

NO	Parts Description	Part Number
1	3 Speed Automatic Transmission	3N71B
2	Torque convertor	RECON D-2
3	Flex Plate	AMC133090



Service Notes:

- Flex Plate custom made for MAG (Please call for availability)
- Torque Converter Made for MAG (Please call for availability)
- Three speed transmission 3N71B (Please call for availability)

Specs On all above

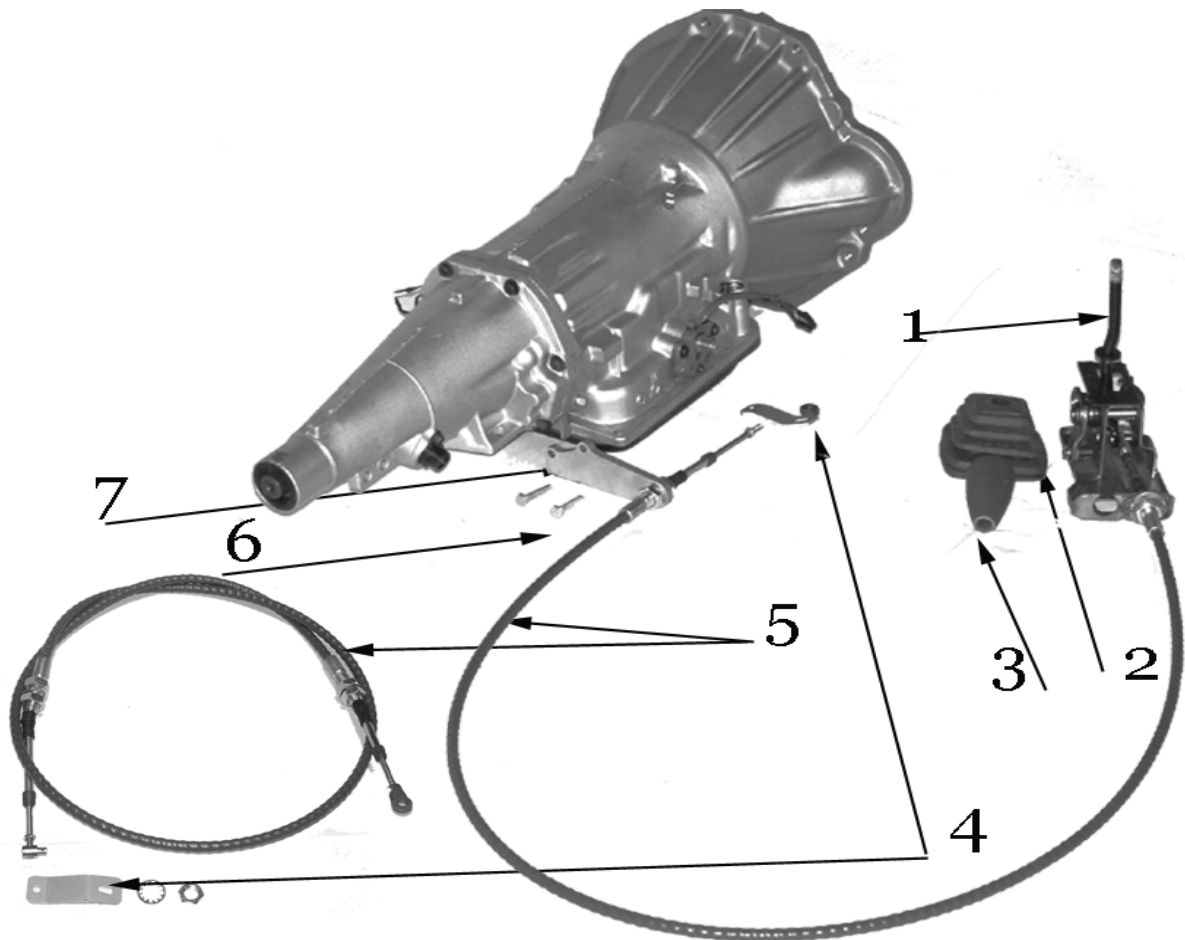
- Grease input shaft before installing torque converter
- Grease input shaft of torque converter

Oil Capacity of Transmission 7.5 QUARTS
Oil Capacity of Torque converter 1 QUART

ATF DEXTRON III

Parts Description – Automatic Gear Cable and Shifter

NO	Parts Description	Part Number
1	Gear shifter	HFJ1703120AT
2	Gear shift Boot	HFJ1703101DA
3	Gear shift Knob	AC17030013AT
4	Transmission link Shifter lever, nut with star washer	SL-011
5	Automatic Transmission Cable	N173LTT-2.5-79
6	Transmission cable mounting plate Bolts	M8X1.25X40
7	Transmission cable mounting plate	CM-01
8	Transmission Shift pattern LOGO	BKKR-A-LOGO

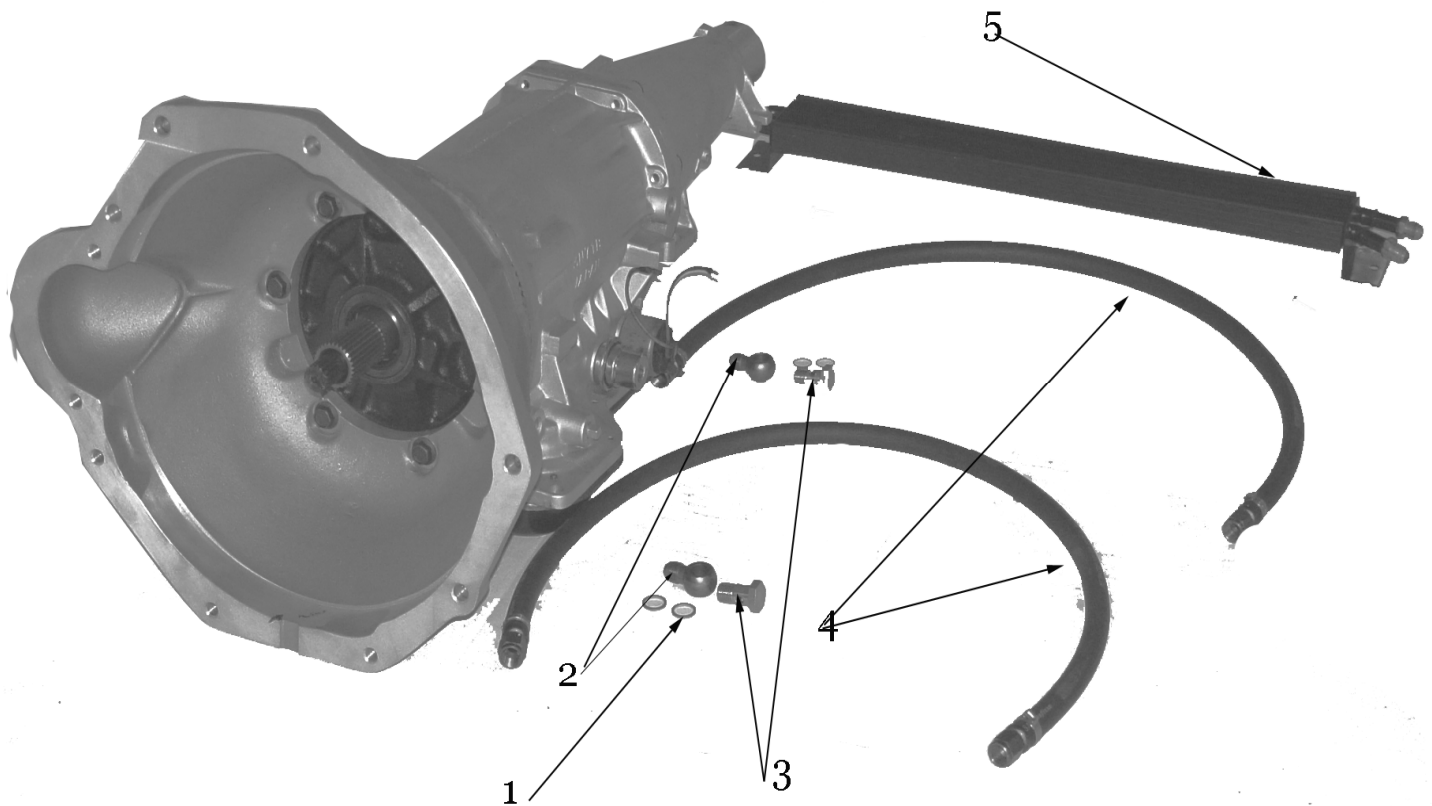


Service Notes:

- Automatic Transmission cable should be properly adjusted allowing the gear to shift correctly.
- Always grease the transmission link shift lever (4).
- The transmission link shift (4) lever must not bind to the neutral safety switch.
- Shift lever (1) should move smoothly and easily for gear selection.

Parts Description – Oil Cooler for Automatic

NO	PART DESCRIPTION	PART NUMBER
1	Copper Washers for Banjo Bolts	CMH-16MMW
2	Banjo Fitting (Blue)	CMH-BJ-6X16
3	Banjo Bolt	CMH-BJB-16MM
4	Oil Cooler Line	CMH-R2-4X6X5
5	Oil Cooler	DR-13225B

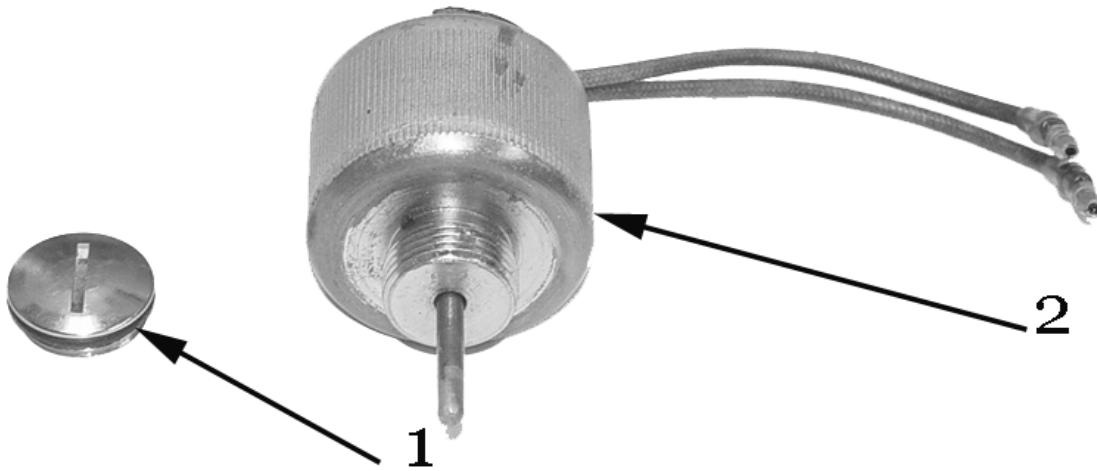


Service Notes:

- Do not over tighten hoses to oil cooler.
- Copper washer should be installed on either side of the banjo fitting to insure proper seal.
- Ensure that all hoses are routed away from the muffler.
- Properly tighten all hoses.

Parts Description - Automatic Transmission Overdrive Solenoid

NO	Parts Description	Part Number
1	Retrofit Plug	MCM7381K23
2	Kick Down Solenoid (Replaced By Plug)	N/A

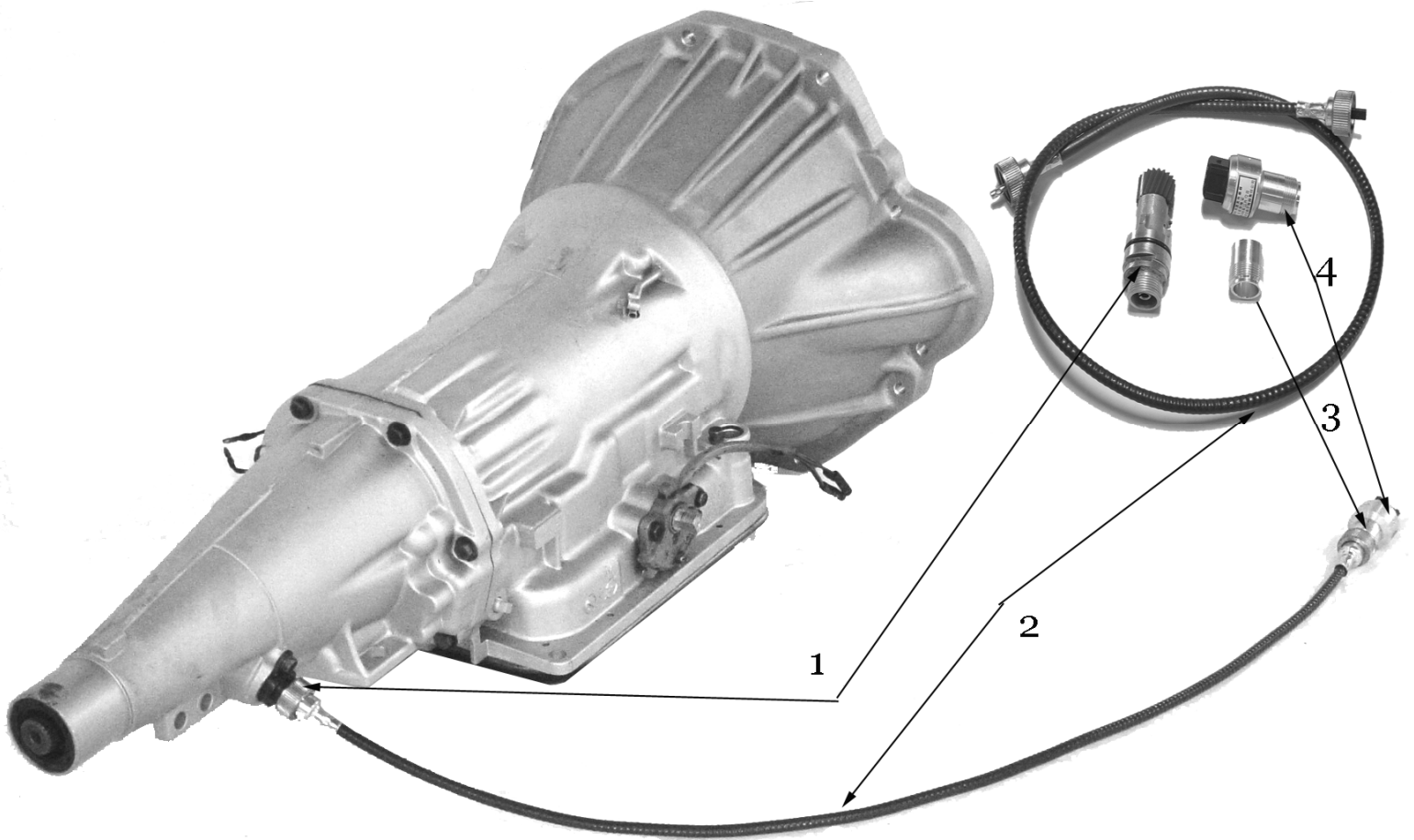


Service Notes:

- Do not over tighten the plug when replacing.

Parts Description - Automatic Transmission Speedo Cable

NO	Parts Description	Part Number
1	Automatic Transmission Speedo Drive	SD 28M 18T / SD30M 20T
2	Automatic Speedo Cable	GS-11C130J
3	Speed Signal Pick Up Adaptor	GS-110K
4	Speed Sensor	HFJ3802120DBAT
5	Speedo Drive O-Ring	OR-28x2.5
6	Speedo Drive Seal	SD16X8

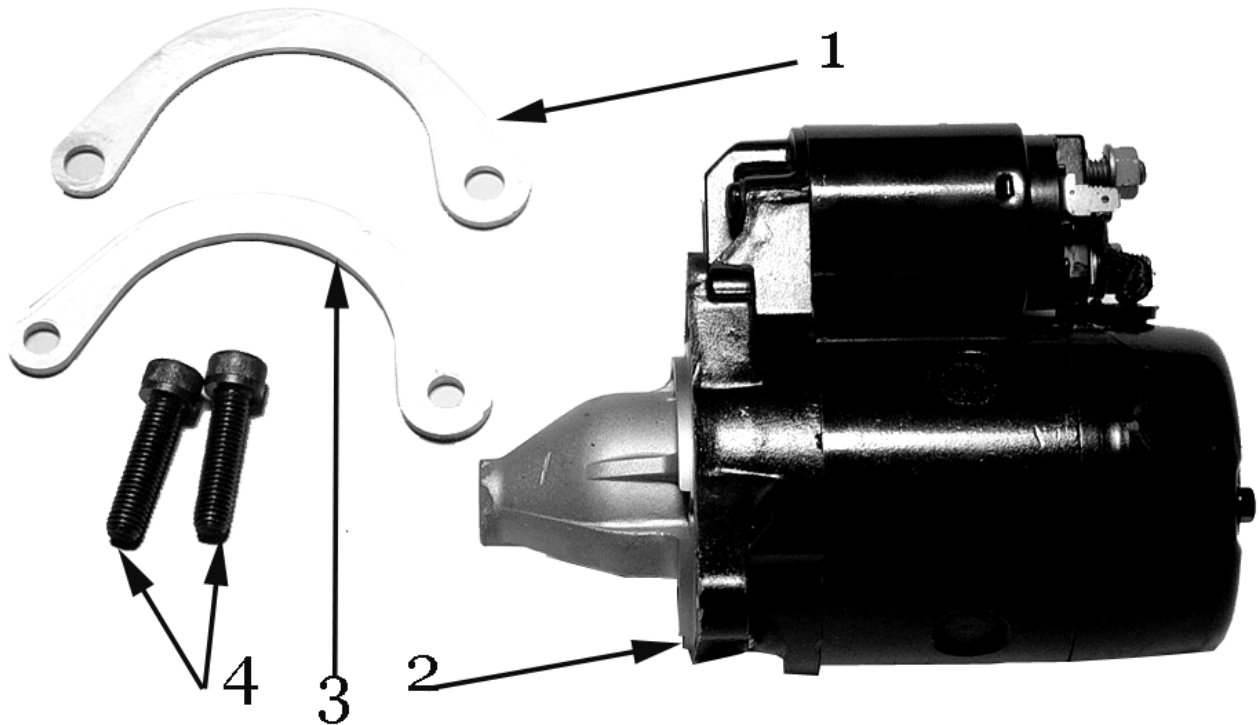


Service Notes:

- The Speedo cable cannot be bound tight it must have free movement when attached to the vehicle.
- Properly fasten the brass collars on Speedo cable.

Parts Description - Automatic Transmission Starter Motor

NO	Parts Description	Part Number
1	Starter Shim #1	SS-01- 175
2	Starter Motor	AS-01
3	Starter Shim #2	SS-01- 130
4	Starter Motor Bolts Hex#	M10X1.5X40 SH

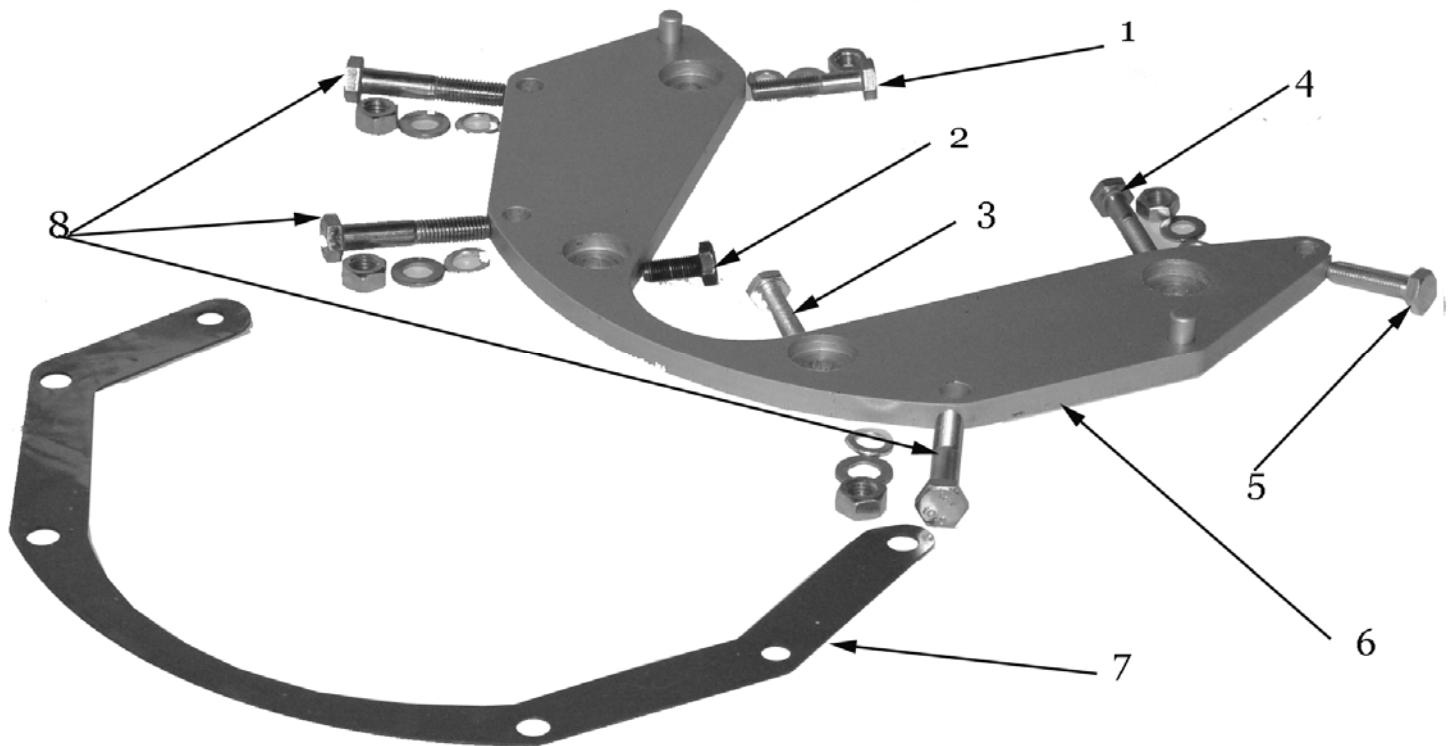


Service Notes:

- When installing starter motor please use the correct starter shim, or reuse the current one that was removed for the repair.

Parts Description - Automatic Transmission Engine Adaptor

NO	Parts Description	Part Number
1	Bolt	M10X1.5X50
2	Engine Bolt (Shallow Head-Black)	M10X1.25X25
3	Engine Bolt (Shallow Head-Silver)	M10X1.25X40
4	Bolt	M10X1.5X50
5	Bolt	M8X1.25X40
6	Transmission Plate Adaptor	TA-01
7	Transmission Plate Shim Spacer	TS-01
8	Bolts	M12X1.75X65

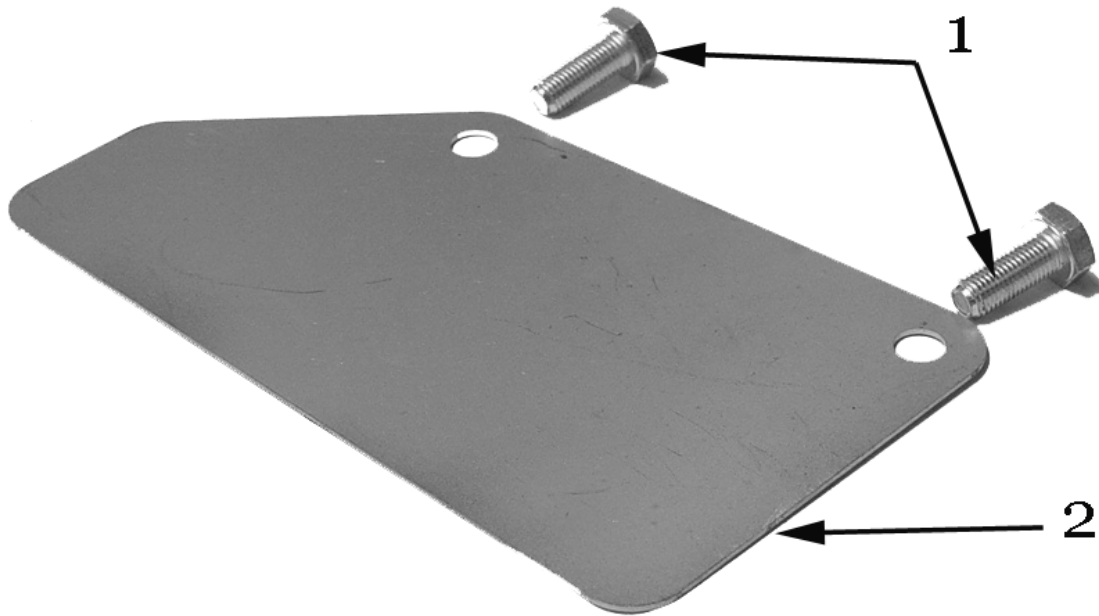


Service Notes:

- All bolts and nuts are properly fastened into the engine block and the transmissions bell housing.
- Blue lock tight is recommended for bolts going into the engine bolt.
- Torque rating is 12mm = 90.n.m~ 65 flbs 10mm = 50 n.m ~ 35 flbs

Parts Description - Automatic Transmission Inspection Plate

NO	Parts Description	Part Number
1	Bolt	M10x1.5x25
2	Automatic Inspection Cover	IC-01

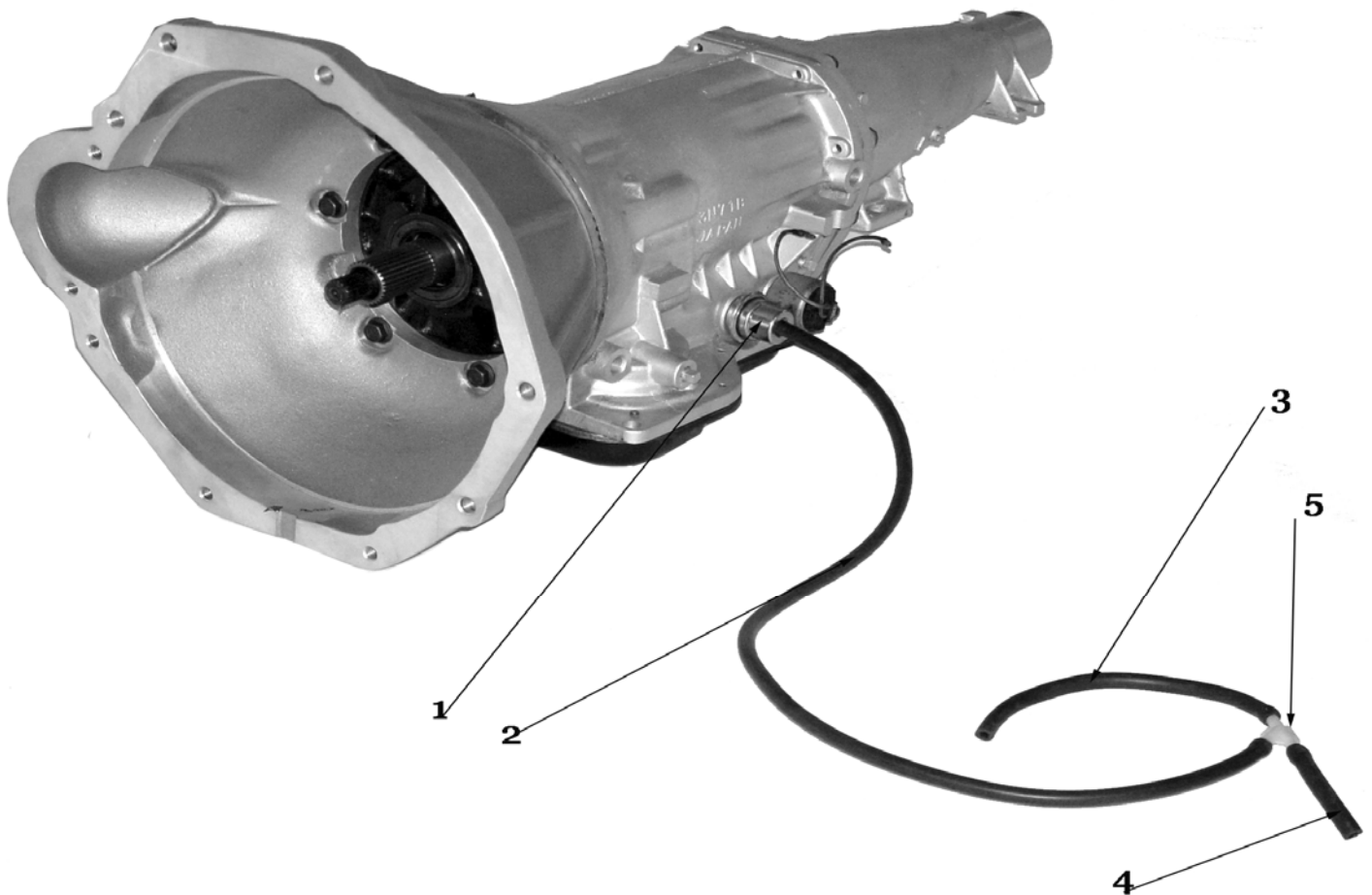


Service Notes:

- Check and make sure bolts and are properly fastened.
- This cover should be removed for inspection of the Torque Converter, flywheel and Starter motor.

Parts Description - Automatic Transmission Vacuum Hoses

NO	Parts Description	Part Number
1	Vacuum Solenoid (Adjustable)	VS-01
2	Vacuum Hose Main	VH-01
3	Vacuum Hose to Purge Valve	VH-02
4	Vacuum Hose (Throttle body port)	VH-03
5	3 Piece Vacuum Hose 3 way splitter	VY-01

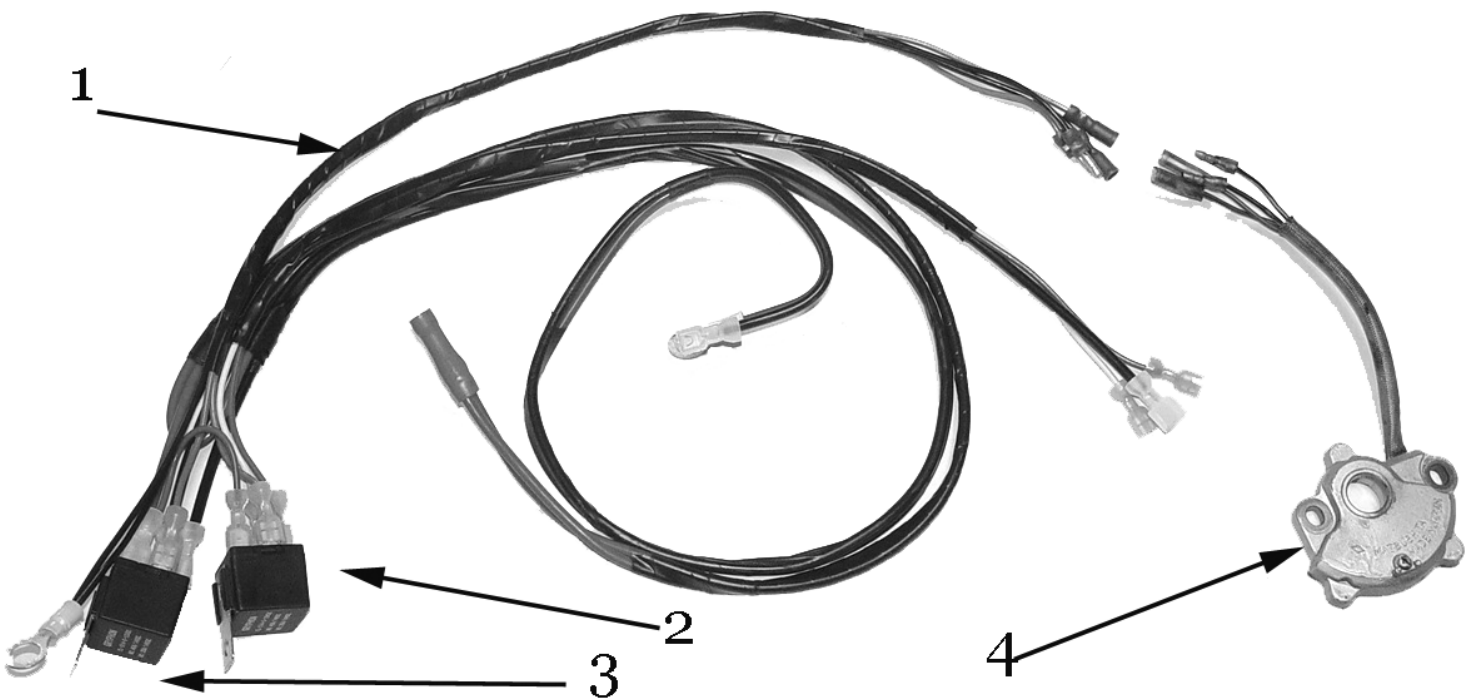


Service Notes:

- All hoses should be securely attached.
- Loose fitting hoses will cause slow shift changing or slipping of gears once vehicle is in operation.
- All hoses should be free and loose and kept away from heat areas of the engine.

Parts Description - Automatic Starter Motor/Neutral Safety Harness with Neutral Safety switch

NO	Parts Description	Part Number
1	Starter / Neutral safety Switch harness	APH-001
2	Starter Relay 40 amp relay	90-401
3	Reverse Relay 20 amp relay	90-400
4	Automatic Neutral Safety Switch	WELLS-JA4082



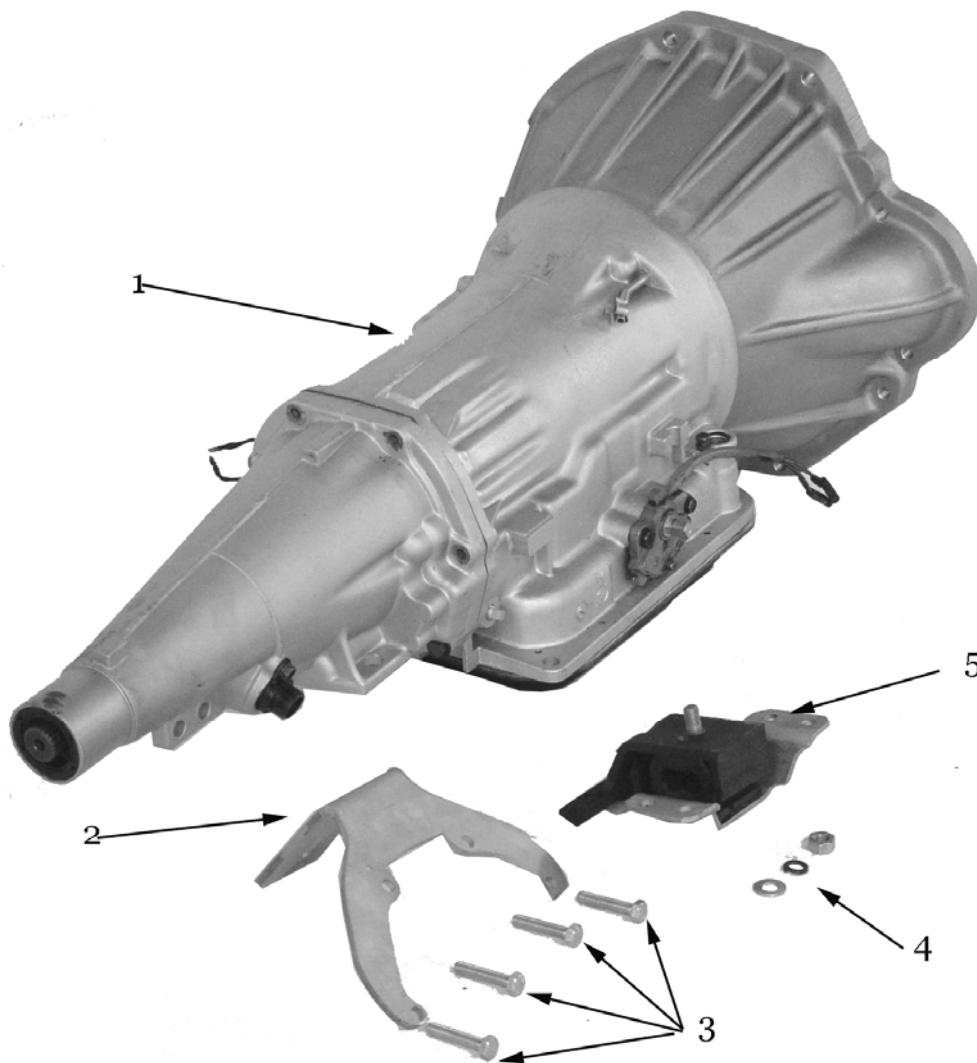
Service Notes:

- The reverse lights are connected into the original vehicles harness.
- The wires for starter are attached to the starter motor under the passenger seat.
- Location of the relays varies by vehicle under the right hand side inboard of the frame near the neutral safety switch

Caution Please ensure that the wire harness is free from moving parts and make sure that wire routing is as far away from the muffler and hot surfaces as possible.

Parts Description - Automatic Transmission Rear Transmission Mount

NO	Parts Description	Part Number
1	Automatic Transmission	3N71B
2	Transmission Mounting Bracket	TSM-01
3	Bolts for Transmission Bracket Size	M8X40
4	Nut For Rear Transmission Mount	462-1000212
4	Spring Washer	10 GB93-87
5	Rear transmission Mount	465Q-1001805



Service Notes:

- Periodicly check that the Transmission Mounting Bracket and bolts are properly tightened.
- Please use red lock tight for fastening the bracket to the transmission.

Automatic Trouble Shooting Guide

Fault	Reasons	Remedy
Overdrive Solenoid Leaking	<ul style="list-style-type: none"> Overdrive solenoid bad 	<ul style="list-style-type: none"> Replace with Solenoid Plug
Vehicle Surging Upon start Vehicle Shifting erratically Late shifting	<ul style="list-style-type: none"> Loose Vacuum hose Loose Vacuum hose at Surge valve Transmission fluid 	<ul style="list-style-type: none"> Check That Vacuum hose is connected to Vacuum solenoid Check that vacuum is connected to both Purge valve and Manifold Check all vacuum lines for connections or cracks Switch engine off and restart Adjust modulator adjustment screw all the way in Low transmission fluid. Add accordingly.
Starter Motor Clicks but wont engage	<ul style="list-style-type: none"> Starter has low battery Current Faulty Starter Faulty Wiring 	<ul style="list-style-type: none"> Check to see that all connections are connected and battery is fully charged Make sure that vehicle is in Park or Neutral to start Check Starter motor relay , make sure all grounds and connections are good
Starter Makes a grinding noise	<ul style="list-style-type: none"> Starter is out of alignment Flywheel Bent Starter is going bad 	<ul style="list-style-type: none"> Check that starter has not loosened up and shifted Replace Flywheel Replace Starter Motor
Speedometer is not working	<ul style="list-style-type: none"> Speedo Sensor Cable Speedo Drive 	<ul style="list-style-type: none"> Check that Power Plug is connected Check that the cable is properly fastened at the transmission and Speedo sensor Check the cable to see that it is not broken or damaged Make sure that the Speedo drive is not loose or that the teeth have not been damaged worn.
Vibration from Transmission	<ul style="list-style-type: none"> Transmission Mounting Bracket loose or damaged Drive shaft loose Transmission mount damaged or loose 	<ul style="list-style-type: none"> Tighten or replace Inspect if damaged replace, if loose tighten and check for any damages. If Mount is torn or damaged, replace, if loose tighten accordingly Check to see if drive shaft is correctly balanced
Oil Cooler Leaking Oil hoses leaking at transmission	<ul style="list-style-type: none"> Fittings on cooler Hose fitting are bad Washers worn or Damaged Determine were leak is located 	<ul style="list-style-type: none"> Check fitting for damages and leaks Check fittings on hoses. Check oil cooler for damages. Replace hose Replace washers and tighten accordingly Tighten all bolts accordingly

Gears not selecting correctly	<ul style="list-style-type: none"> • Gear Shift Cable out of adjustment • Transmission Link damaged or loose • Transmission cable plate loose • Shifter Cable broken • Gear shift bushings 	<ul style="list-style-type: none"> • Check gear shift cable and all fittings, see if cable is damaged, replace if damaged, if not re-adjust accordingly. • Check Link, ensure that the cotter pin is properly inserted, and make sure that the link is properly lubricated. • Ensure that the Cable is properly fastened to the transmission cable plate and properly aligned. • Replace cable • Check gear bushings
Dip Stick Tube leaking	<ul style="list-style-type: none"> • O-ring bad in transmission • Loose dipstick 	<ul style="list-style-type: none"> • Replace dip stick o-ring • Check that dip stick is inserted all the way • Check dip stick for damage , or tighten properly
Rattling Noise in Bell housing	<ul style="list-style-type: none"> • Flex Plate • Flex Plate adaptor • Torque converter • Starter Bendex rattles 	<ul style="list-style-type: none"> • Check for Damages and replace • If damaged replace • Check for damages on Flex plate, weld points or cracks • Check for damages inside torque convertor • Remove and replace starter
Whining Noise from Transmission	<ul style="list-style-type: none"> • Transmission Pump • Torque Converter 	<ul style="list-style-type: none"> • Remove transmission and repair pump • Remove torque converter and replace
No back up Lights	<ul style="list-style-type: none"> • Neutral Safety switch • Back up Relay and harness • Back up light 	<ul style="list-style-type: none"> • Check to see if relay is working, if damaged or faulty replace. • Ensure that all connections are good and grounded. • Check bulb, and fittings and plugs.
Transmission Oil Pan leaking	<ul style="list-style-type: none"> • Damage to Oil Pan • Oil Gasket • Pin Hole • Pan Bolts 	<ul style="list-style-type: none"> • Replace complete oil Pan • Replace gasket • Replace complete oil Pan • Tighten accordingly, check to see if stripped , if stripped use correct helix-coil to repair hole
Transmission Oil QTY	7.5 quarts Total amount	
Torque Converter Oil QTY	1 quarts	
Oil Cooler QTY	¼ Pint	
Oil used DEXTRON III		

Notes for Servicing or checking transmission oil

- Start Vehicle in park on level ground
- Warm up for 5-7 mins
- Remove dip stick
- Check fluid level
- Ensure that fluid is on the second line of the dipstick if not add according to measure level to second line.