# AODE-3 Also Fits: 4R70W Reprogramming Kit<sup>TM</sup>

### Stick Shift (Full Manual Control)

Installing this kit Eliminates all Automatic Shifting. For transplants into non-computer controlled vehicles. Short, Firm, Full Throttle Shifts With Class, Performance & Durability

#### THESE ARE THE TRANSMISSION RATIOS:

There are two models of this trans, standard ratio and wide ratio "W" type. The "W" type [wide ratio] has a "W" molded on rear of trans housing. "W" type: "1st" 2:84 "2nd" 1.55 "3rd" 1.00 "4th" .7 Std type: "1st" 2:40 "2nd" 1.40 "3rd" 1.00 "4th" .67 To find top gear ratio, multiply axle ratio x 4th ratio [Example 3.73 x .67= 2.50] Other ratios: Multiply axle ratio x trans ratio. [Example 3.73 x 2.84 = 10.59]



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**Step 1.** Insert the tapered plug into this hole and pound it in flush.



Adding Lockup Control Type 1: Splice pin "E" to ignition pin "A". Connect pin "D" to one side of an additional switch and the other side of switch to ground. DO NOT operate Lock-Up at full throttle or high engine loads!

You **MUST USE** late type 16-22 ohm TCC solenoid to use lock-up function.



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Type 1



Type 2

Passenger side towards rear.

#### Step 2. Driver Controlled 4th

CASE

This gives driver complete control of 3-4 and 4-3 shifts with a flip of the switch.

#### Connect pin "A" to an ignition switch operated 12 volt supply.

Connect pins "**B**" and "**C**" together and hook to one side of a toggle switch. The other side of switch to ground.

Adding Lock-up Control Type 2: Connect pin "D" to one side of an additional switch and the other side of switch to ground. DO NOT operate Lock-Up at full throttle or high engine loads!

You **MUST USE** late type 16-22 Ohm TCC solenoid to use lock-up function.

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### If trans is apart: Consider these durability upgrades

**A.** Assemble 2nd roller. Scribe a line on the retainer just outside the snap ring.



**B.** Cut four tabs about 5/16" wide in the retainer just a little deeper than the scribed line. Then bend tabs up.

Cut tabs

Then bend tabs up

Retainer

C. 1. Install the snap ring by rotating it into the groove inside of the tabs.
2. Bend the tabs over the snap ring to keep it from jumping out of the groove.



**D.** Special new plastic forward clutch rings have slight chamfer on one side. Install rings with the chamfer as shown.



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# AODE- 4R70W Vacuum Modulator System





## Step 1





