

47-3 Reprogramming Kit™

Fits 67-69 C-4 Transmissions



Manual Control Only-No Automatic Shifts*

The trans will be in the gear you select and changes to any gear you choose when you move the selector. DRIVER is in full COMMAND!



This Kit Fits:
Casting Numbers
C7AP thru **C9AP**

Burnouts: In water or bleach box: Break it loose in 1st/2nd, then up-shift to 3rd.

THESE ARE THE TRANSMISSION RATIOS: "1st" 2.46 "2nd" 1.46 "3rd" 1.00

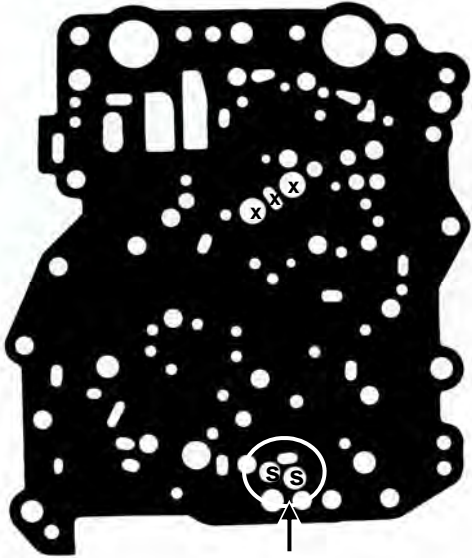
Overall ratios: Multiply axle ratio x trans ratio. [Example 3.73 x 2.46 = 9.25 1st]



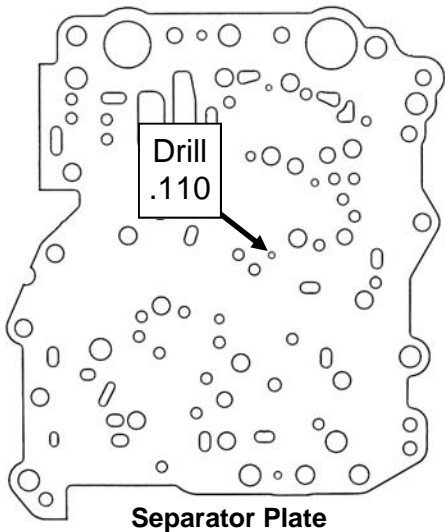
Mr. Shift

Only Use Gaskets Provided In This Kit! Added Holes at X's

Manual Gasket ID



Manual Gasket Has 2 Extra Holes at "s" Locations.



Separator Plate

Use this page to assemble VB Channel Casting.

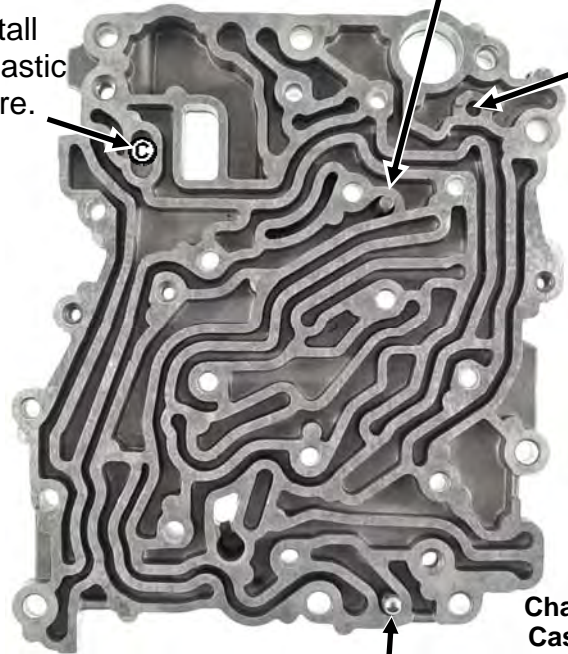
Two Gaskets are provided. Use the **Manual** gasket and return the **Automatic** gasket to kit box. **Gasket ALWAYS** goes between channel casting and separator plate!

1. Install **New Orifice Control Plug**. Use Assy. gel to hold it in.



Ⓢ = Qty (1) .217 plastic ball (not provided)

2. Re-install .217 plastic ball here.



No Ball Here!

Orifice Control plug sticks up thru plate when done.



Tighten plate bolts **AFTER** VB halves are together!

3. Install **New 1/4" (.250) Ball & New Black spring**.



Channel Casting

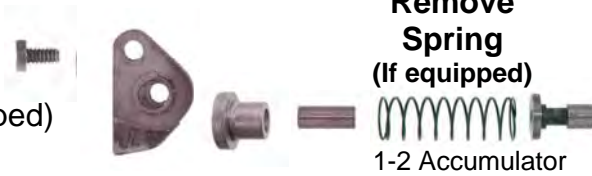
4. Enlarge separator plate hole with .110 drill provided before final assembly of channel casting.

Channel Casting Completed

New 1/4" Ball seated against plate when done.

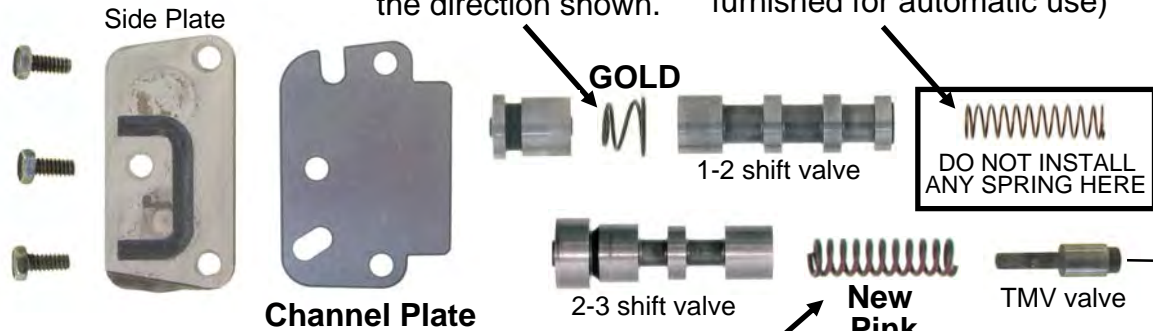
Main VB

1. Remove and Discard 1-2 Accumulator Spring (If Equipped) and 1-2 Puck.



2. Install the **GOLD Splitter spring** in the direction shown.

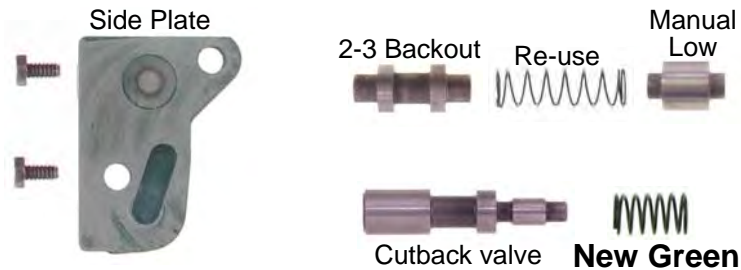
3. Discard original inner spring. (Save **Blue** spring furnished for automatic use)



5. Install **Channel Plate** between cover plate and the valve body.

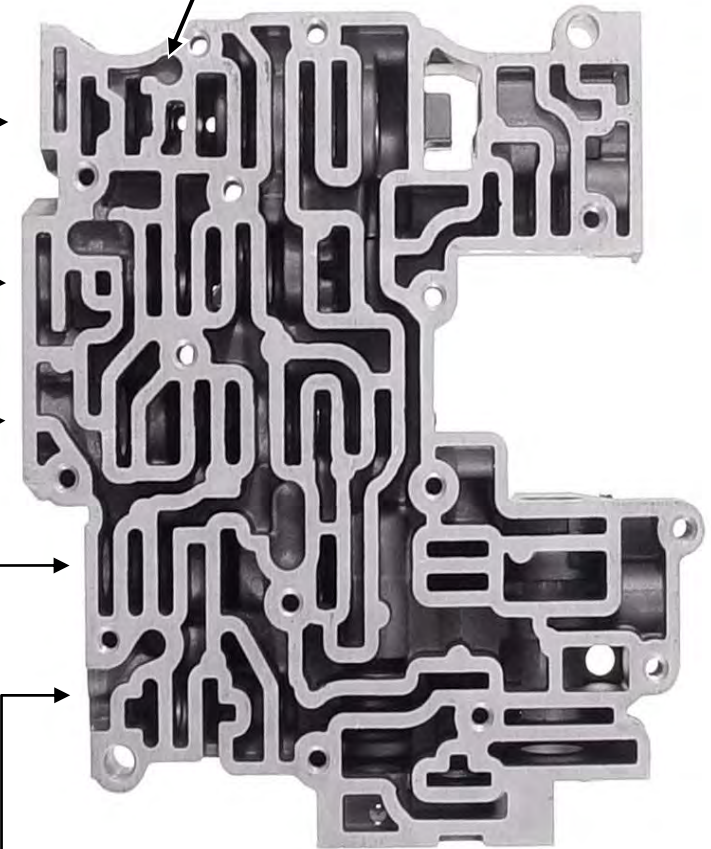
4. Remove and **discard** original 2-3 spring. **SAVE NEW RED** spring. (For Automatic Use.) **Install New PINK** spring. (For Manual Use)

Leave ALL side plate bolts loose until VB halves are bolted together!

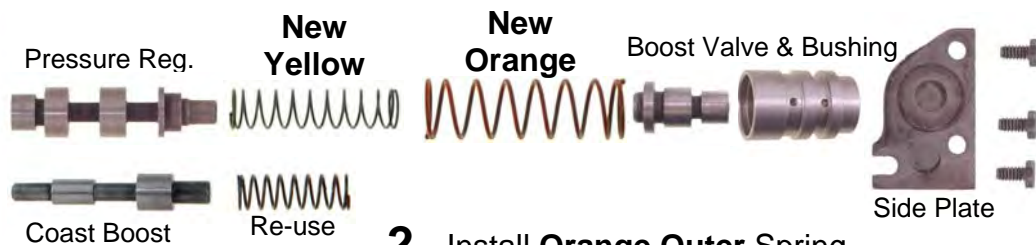
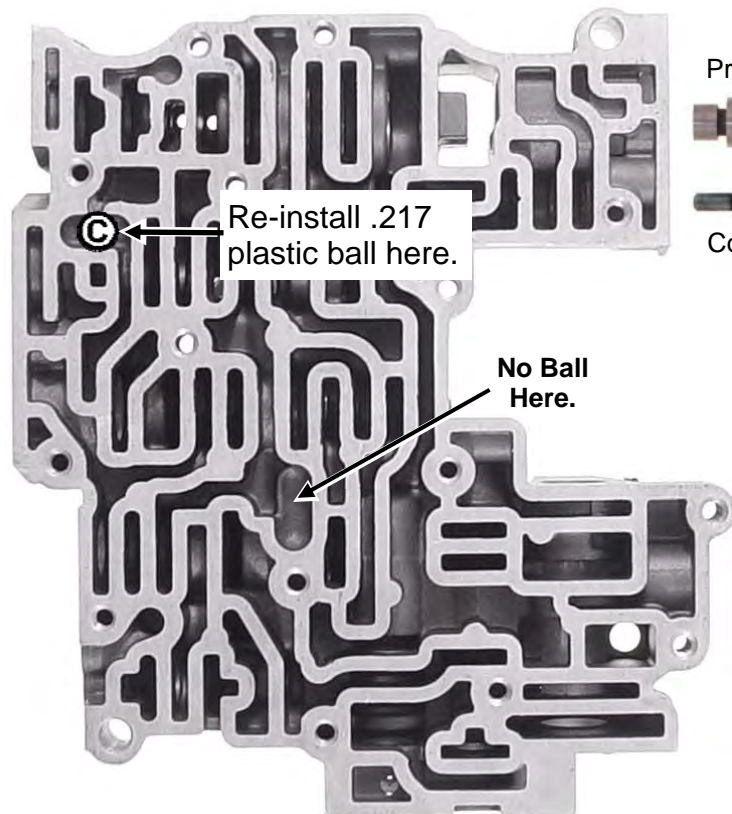


Tip: Save unused kit springs in box with instructions for future use.

6. Install **New Green Spring** on Cutback valve.

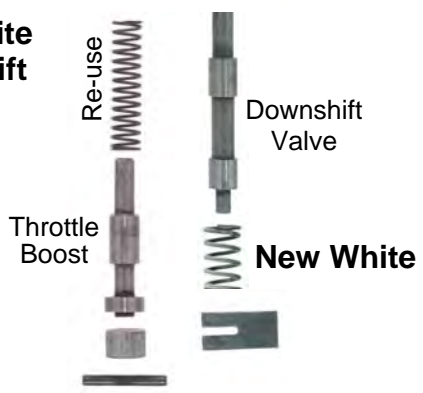


Main VB Continued



2. Install Orange Outer Spring and Yellow Inner Spring on Pressure Reg.

1. Install New White Spring on Downshift valve



© Qty = 1
.217 plastic ball
(not provided)

Final Assembly

Fig. 1

Fig. 2

Tighten large bolts first.

Install these bolts first. Leave bolts loose, then flip vb over.

Lay completed Channel onto Completed VB (Fig. 1) and Install 7 short bolts but do not tighten. Flip VB over and install 2 Large bolts as shown in fig 2. Tighten large bolts first and then 3 small channel plate bolts.

Flip VB back over and tighten 7 bolts as shown in fig 1. Install filter and tighten filter bolts and side plate bolts last.

Torque small bolts 40-60 inch lbs. Large bolts 80-120 inch lbs. Short side plate screws 30-35 inch lbs. VB to Case 80-120 Inch lbs.

Important Information

Trans **MUST** have vacuum modulator.

Always connect manifold vacuum to the modulator. This prevents full time high line pressure that kills pump and rings. Even Low vacuum is better than none!

Disconnect kickdown linkage for Manual Setup.

Modulator Adjustment for Automatic use: Adjustable modulators have a screw visible when you remove the vacuum hose. No more than 3 turns either direction from the factory starting point. Better to be a little early than late! Saves gas, longer trans life and better performance overall. Make 1 change and roadtest.

For earlier shifts: Turn screw counterclockwise 1 turn at a time or you can also use a shorter modulator pin.

For later shifts: Turn clockwise 1 turn at a time, or you can use a longer modulator pin.

Modulator Adjustment not required for full manual setup.

Modulator Pin Length		
Minimum Length	Average Length	Maximum Length
1 5/8	1 11/16	1 3/4

If trans has a brief bind-up on 1-2 shift:

Back off the rear band adjustment one additional turn.

To Convert Back To Automatic Shifts

- Remove Black spring & 1/4" Ball from channel casting and replace "**Manual**" gasket with "**Automatic**" gasket. See channel casting assembly, pg 2.
- Remove Gold Splitter spring on 1-2 shift valve and install BLUE 1-2 inner spring furnished, see pg 3.
- Remove Pink 2-3 shift spring and install new Red 2-3 shift valve spring furnished, Remove Channel plate. see pg 3.

