40-3 Reprogramming Kit™

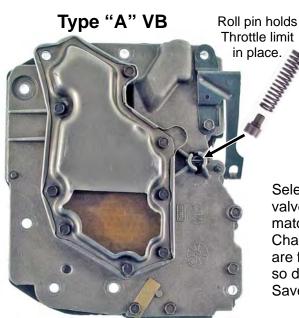


Fits All 70 and later C-4 Transmissions

Except C-5 which uses a single bolt for filter.

Manual Control Only-No Automatic Shifts*

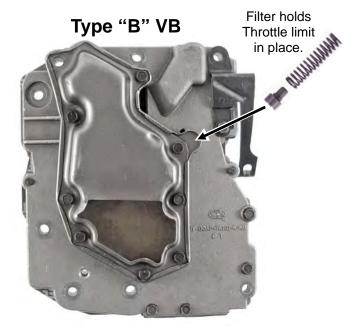
The trans will be in the gear you select and changes to any gear you choose when you move the selector. DRIVER is in full COMMAND!



Hold it!
ID Your
Valvebody
First!

Select Manual Gasket for type **A** or **B** valve body. Use the instruction page that matches your VB Type for assembling the Channel Casting. Extra gaskets included are for converting back to automatic if you so desire to in the future.

Save these instructions and extra parts!



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]



*Can be converted back to Automatic with a few easy steps! See pg 6.

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

Manual Gasket

Use this page to assemble Type "A" 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! Gasket must not block any holes in separator plate.

No Ball

Here!

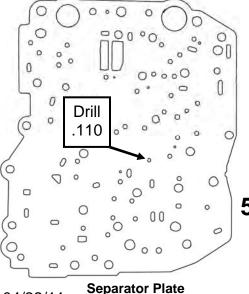
No Ball Here!

together! •

Channel Casting



Manual Gasket Has Slot & Hole at "s".

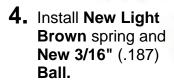


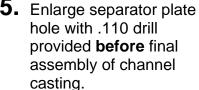
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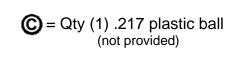
1. Install **New** Orifice Control Plug. Use Assy. gel to hold it in.





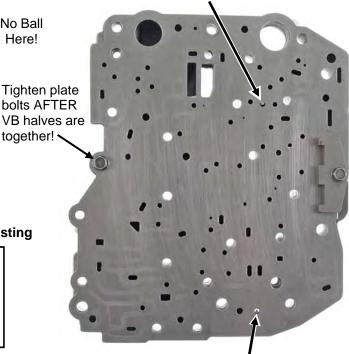






Channel Casting Completed

Control plug sticks up thru plate when done.



New 3/16" Ball seated against plate when done.

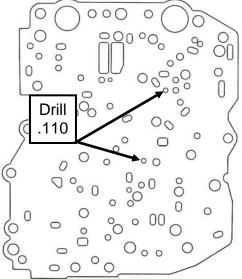
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Only Use Gaskets Provided In This Kit! Added Holes at X's Manual Gasket Type B



Manual Gasket Has Slot & Hole at "s".



Separator Plate

Use this page to assemble Type "B" 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!

Gasket must not block any holes in separator plate.

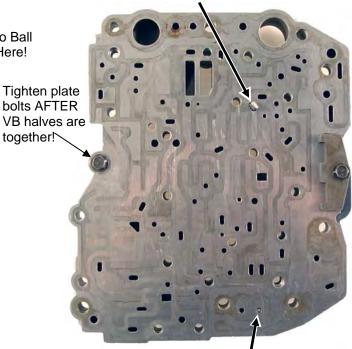


- 3. Install New Light Brown spring and New 3/16" (.187) Ball.
- **4.** Enlarge separator plate hole with .110 drill provided before final assembly of channel casting.

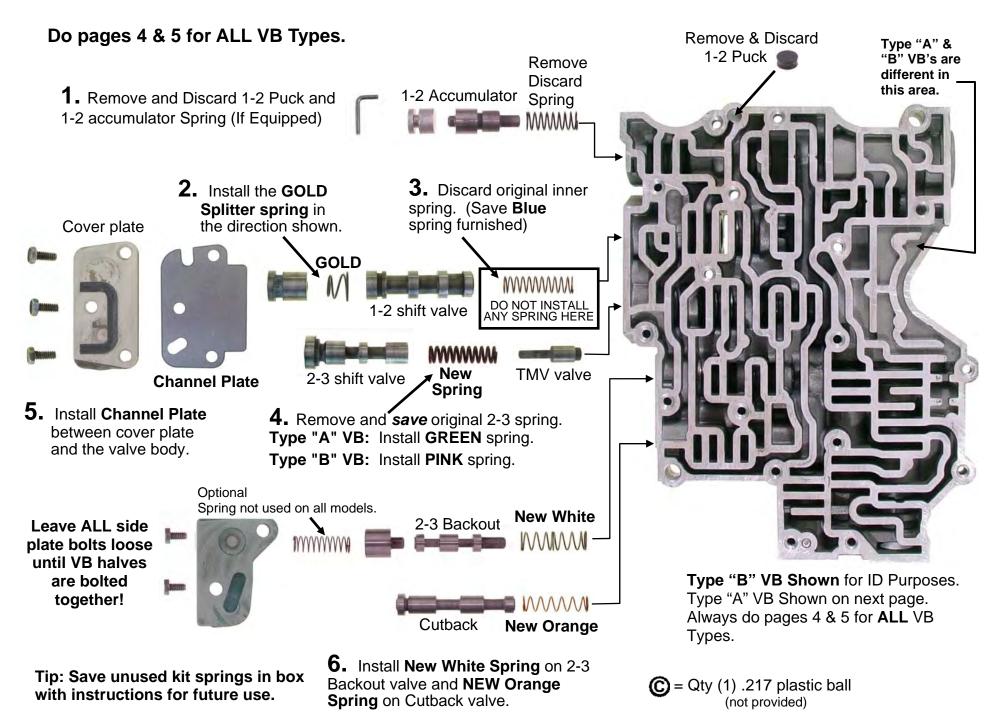
© = Qty (1) .217 plastic ball (not provided)

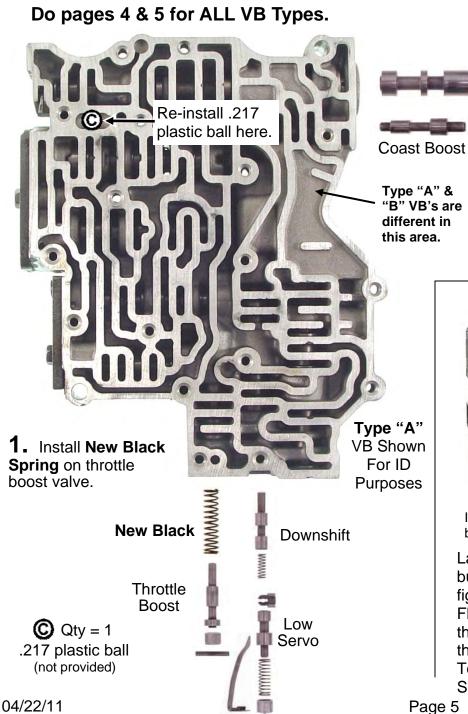
Channel Casting Completed

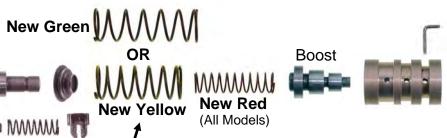
Control plug sticks up thru plate when done.



New 3/16" Ball seated against plate when done.

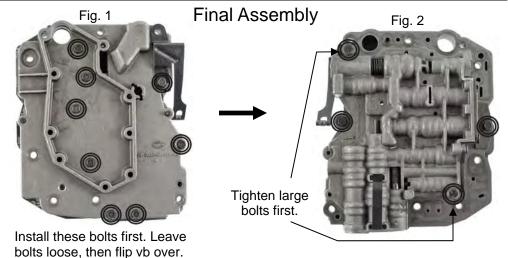






2. Type "A" VB's Install Yellow Outer Spring and Red Inner Spring on Pressure regulator.

Type "B" VB's: Street use, trucks, vans cars under 5500 lbs. use Yellow outer and Red inner PR Spring. For Full Race ONLY and/or Vehicles over 5500LBS use Green outer and Red inner PR Spring.



Lay completed Channel onto Completed VB and Install 8 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 both small channel plate bolts. Flip VB back over and tighten 8 bolts as shown in fig 1. Re-install throttle relief valve and spring for **Type B** VB (see front page) and then 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.

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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. For earlier shifts turn screw counterclockwise 1 turn at a time. For later shifts turn clockwise 1 turn at a time. 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. Adjustment not required for full manual setup.

Modulator Pin & Gasket: You can also adjust shift timing (Automatic use) by using gasket shim on push-in modulators to make shifts earlier or by using one of the two modulator pins provided. Shorter pin or by adding gasket = earlier shifts, longer pin = later shifts. Don't use gasket on screw-in type modulators. For manual setup use gold pin. (Longer of 2 provided)

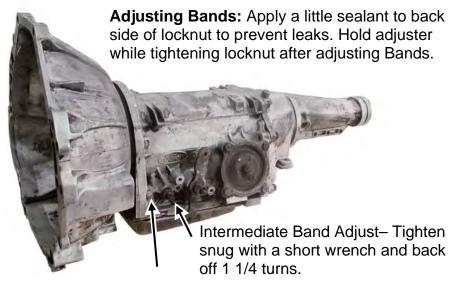
If trans has a brief bind-up on 1-2 shift:

Back off the rear band adjustment one additional turn.

To Convert Back To Automatic Shifts

- A. Remove Light Brown spring & 3/16" Ball from channel casting and replace "Manual" gasket with "Automatic" Gasket for your type VB, use channel casting page that match your VB.
- B. Remove Gold Splitter spring on 1-2 shift valve and install BLUE 1-2 inner spring furnished, see pg 4.
- C. Remove Pink or Green 2-3 shift spring and reinstall the original 2-3 shift valve spring, Remove Channel Plate, see pg 4.

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Line Tap
Line Pressure Spec's
Drive - Idle 55-65 WOT 150-185
Reverse - Idle 60-110 WOT 240-270

