

# TRANS<sup>GO</sup>

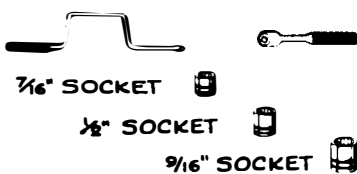
## REPROGRAMMED AUTOMATIC

### 1973-77

## Cast Iron Case Cruise-O-Matic

#### TOOLS RECOMMENDED FOR EASIEST, QUICKEST INSTALLATION

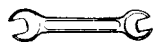
##### SPEED HANDLE OR RATCHET



##### SCREW DRIVER



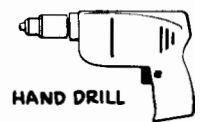
##### 3/16" WRENCH



##### CRESCENT WRENCH



##### VACUUM MODULATOR WRENCH OR WATER PUMP PLIERS



HAND DRILL

This Trans-GO Kit was a very intelligent decision. Your transmission will love you for it. This kit transforms a good working "stock" automatic transmission into a rugged, responsive, hi-performance unit.

A Trans-GO Kit will more than double the life of your transmission under high load conditions. There's no reason to lose precious efficiency with soft shifts that generate heat and consume horsepower.

Trans-GO brings automatic transmission performance out of the dark ages into the space age, in one giant step. Installed in your transmission, a Trans-GO Kit recalibrates it to hi-performance specifications. It controls shift timing and "shift feel" for instant response and racing performance.

Cleanliness is important. An ideal place for valve body work is a clean table or work bench free of any other parts or springs. A piece of cardboard makes an excellent working surface once the valve body has been drained of transmission fluid.

*Now you are ready to throw a shift that will make the 4 Speeders Jealous!*

This Kit fits '73 - '75 passenger cars with dual diaphragm modulator. It also fits '73 & '74 F-350-600 trucks with single diaphragm modulator.

**STEP 1**

Loosen oil pan and drain oil. If filler tube screws into pan, remove it. If fluid is to be reused it should be drained into a clean container.

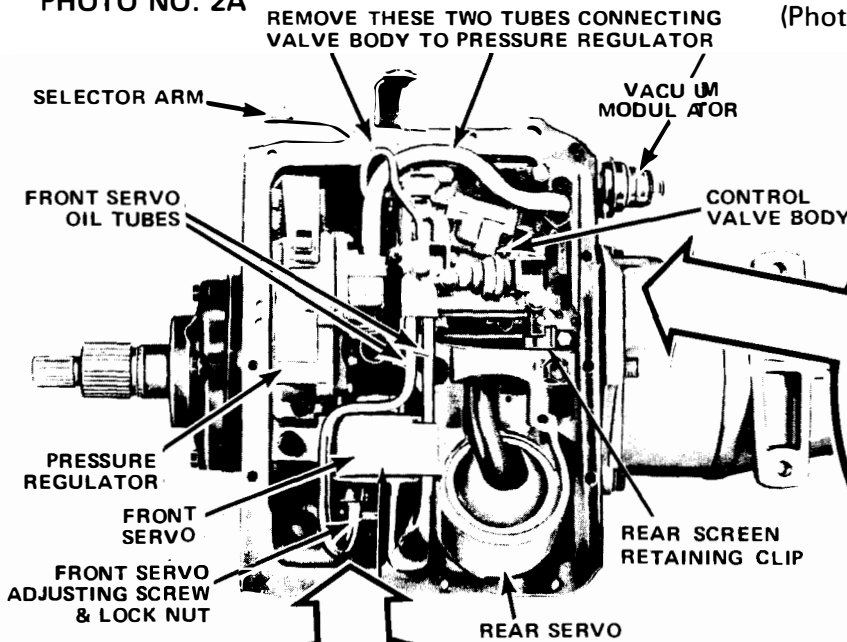
**STEP 2**

Disconnect vacuum hoses from the vacuum modulator located on left rear corner of transmission case. Unscrew vacuum modulator and remove it and push rod. (See Photo No. 2A) Use thin 3/4" wrench, water pump pliers or pipe wrench.

**STEP 3**

The transmission oil screen is held in place with a metal clip, notice how it is installed. Remove clip and oil screen.

PHOTO NO. 2A



**STEP 4**

Remove the two tubes connecting valve body to pressure regulator. To remove big tube, unplug at valve body first. Be very careful, do not bend or distort tubes. (See Photo No. 2A)

**STEP 5**

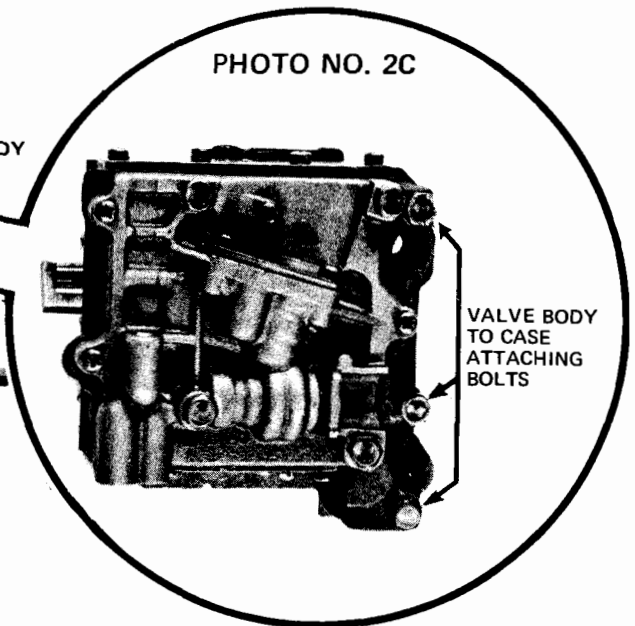
If you are installing a 33-1 Kit, go directly to Step 8. If you are installing a 33-2 Kit, continue as follows:

Loosen locknut on front servo adjusting screw and back screw out until the servo arm touches the apply rod. (See Photo No. 2B)

**STEP 6**

Remove both front servo attaching bolts (use 9/16 socket) (some servos have only one bolt) and the three bolts attaching valve body to case (use 7/16 socket). Remove valve body and front servo together. Watch for band apply strut, it connects servo arm to the front band and will probably fall out when servo is removed. Band anchor strut (Photo No. 2D) may also fall out.

PHOTO NO. 2C



VALVE BODY TO CASE ATTACHING BOLTS

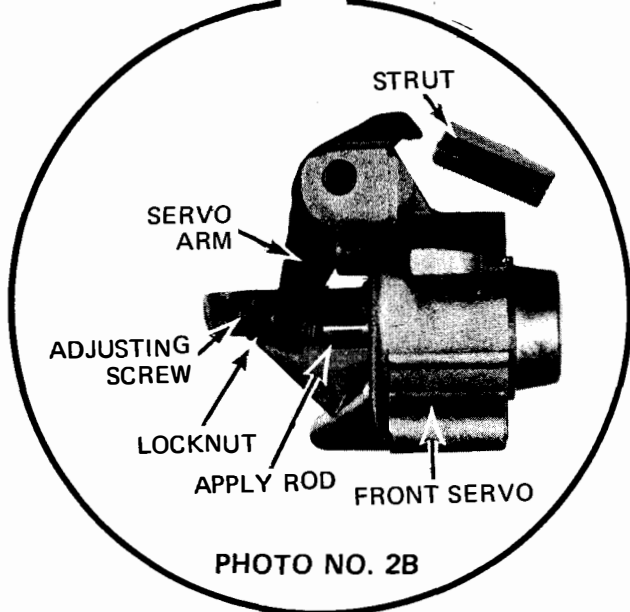


PHOTO NO. 2B

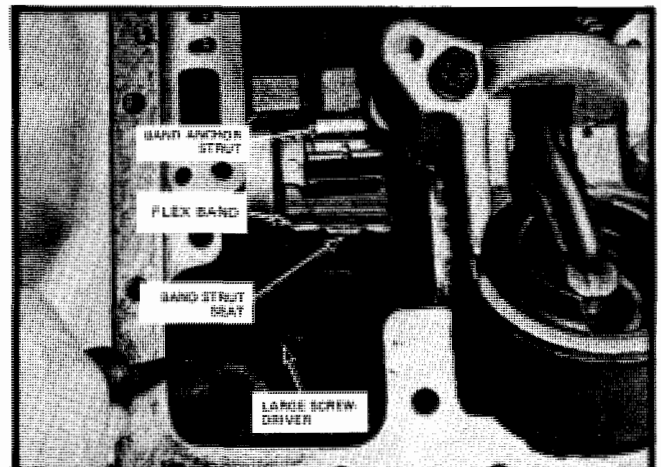
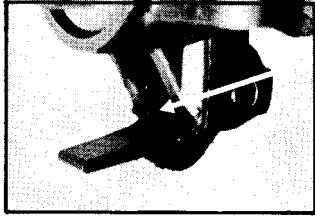


PHOTO NO. 2D

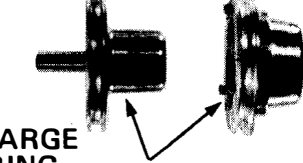
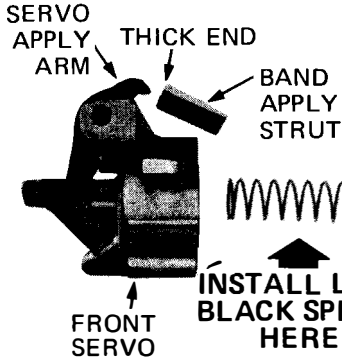
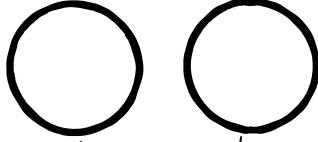
## STEP 7

Remove two tubes between servo and valve body. Install new servo parts as shown. (See Photo No. 3A)



USE THICK GREASE TO HOLD STRUT IN PLACE

NEW "O" RINGS FURNISHED IN KIT



Special TransGO high volume Servo Cover, Piston and Spring. (Furnished In Competition Kit Only)

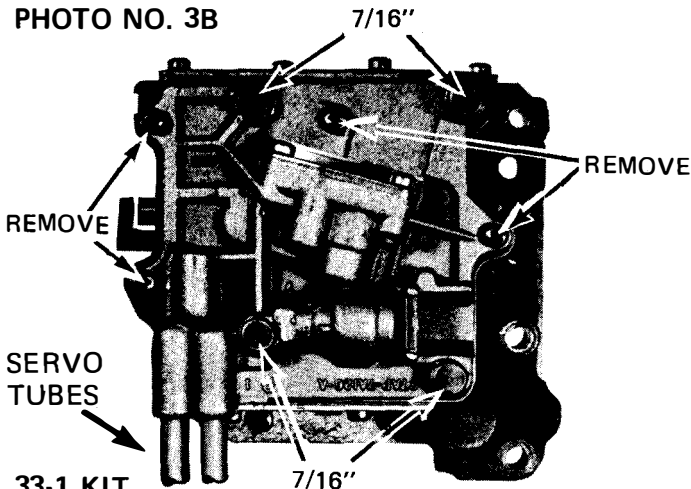
PHOTO NO. 3A

Install thick end of strut into band apply arm (Photo No. 3A). Use thick grease to hold it in position. While installing servo onto case, slide thin end of strut into strut seat on band.

If you have flex band as shown in Photo No. 2D, see that anchor strut is in position and hold band with screwdriver as servo is installed.

## STEP 8 VALVE BODY

PHOTO NO. 3B



### 33-1 KIT

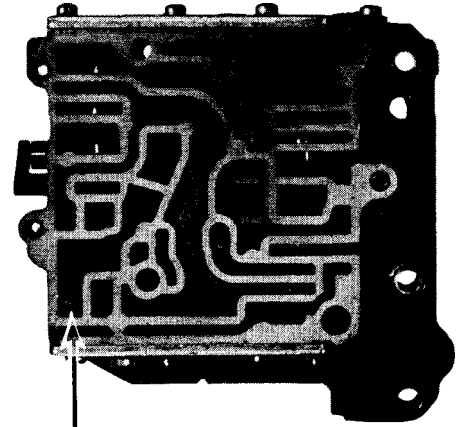
Remove four bolts (use 7/16" socket) and four screws that attach valve body cover. (See Photo No. 3B) Slide valve body cover off servo tubes. Remove small separator plate with cover. Remove three bolts attaching valve body to case (use 7/16" socket and remove valve body. (See Photo No. 2C)

### 33-2 KIT

Remove four bolts (use 7/16" socket) and four screws that attach valve body cover. (See Photo No. 3B)

## STEP 9

LOWER VALVE BODY



DISCARD CHECK BALL IF YOUR VALVE BODY HAS ONE AT THIS LOCATION (DO NOT REINSTALL)

## STEP 10

Remove and discard spring and ball from cover as shown in Photo No. 3D.

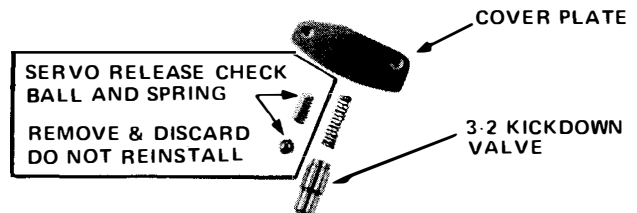
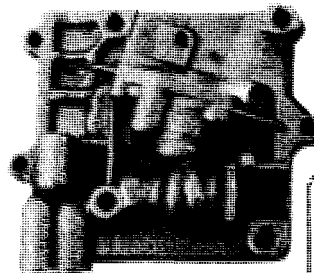


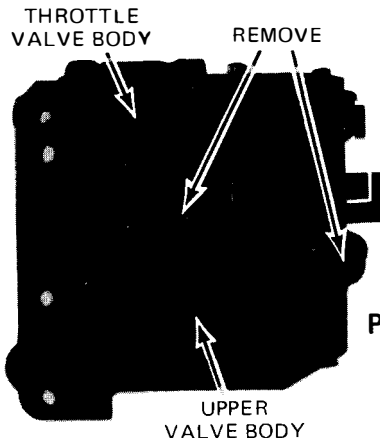
PHOTO NO. 3D



VALVE BODY COVER

1-2 SHIFT ACCUMULATOR VALVE & SPRING

DO NOT DISASSEMBLE



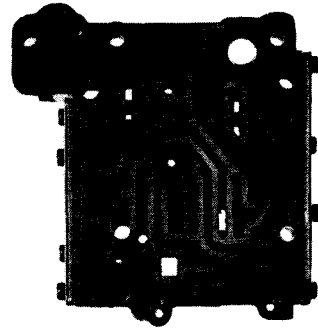
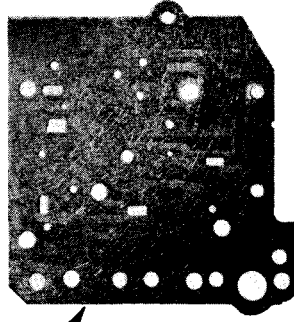
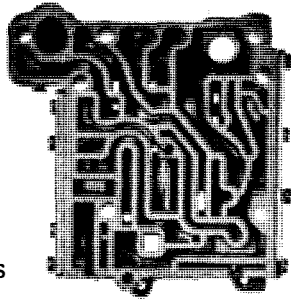
## STEP 11

Remove two screws attaching upper valve body to main valve body. (See Photo No. 3E)

PHOTO NO. 3E

LOWER VALVE BODY

LOWER VALVE BODY

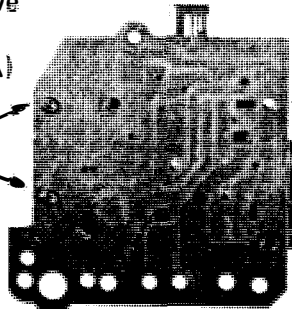


**STEP 12**

Remove two screws attaching separator plate to upper valve body. (See Photo No. 4A)

REMOVE

PHOTO NO. 4A



UPPER VALVE BODY

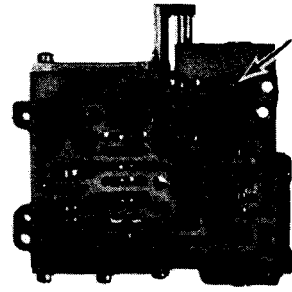
LARGE SEPARATOR PLATE

PHOTO NO. 4B

**STEP 13**

Watch for check ball as you lift large separator plate from upper valve body. (See Photo No. 4B)

CHECK BALL REMOVE NOW REINSTALL LATER



UPPER VALVE BODY



ENLARGE THIS HOLE WITH DRILL FURNISHED IN KIT

**STEP 14**

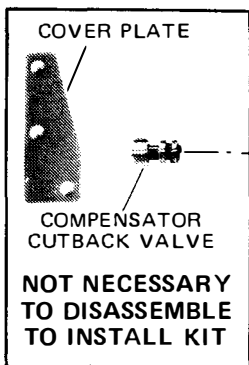
Enlarge hole in separator plate as shown with drill furnished (See Photo No. 4C).

PHOTO NO. 4C

**STEP 15**

Install new valve and springs in upper valve body, discard old parts they replace. (See Photo No. 4D)

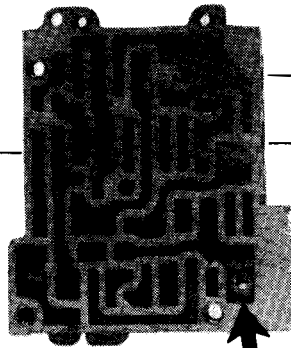
UPPER VALVE BODY



COVER PLATE

COMPENSATOR CUTBACK VALVE

NOT NECESSARY TO DISASSEMBLE TO INSTALL KIT



3/16" BALL HERE

INSTALL SMALL BLACK SPRING HERE



THRITTLE BOOST

Compare small land of new Compensator Valve with original valve, if land on new valve is larger, you have a 1972 type valve. (Use 1972 Kit)

INSTALL BLUE SPRING HERE

INSTALL SMALL GREEN SPRING HERE

REPLACE WITH NEW COMPENSATOR VALVE

LEVER STOP BRACKET

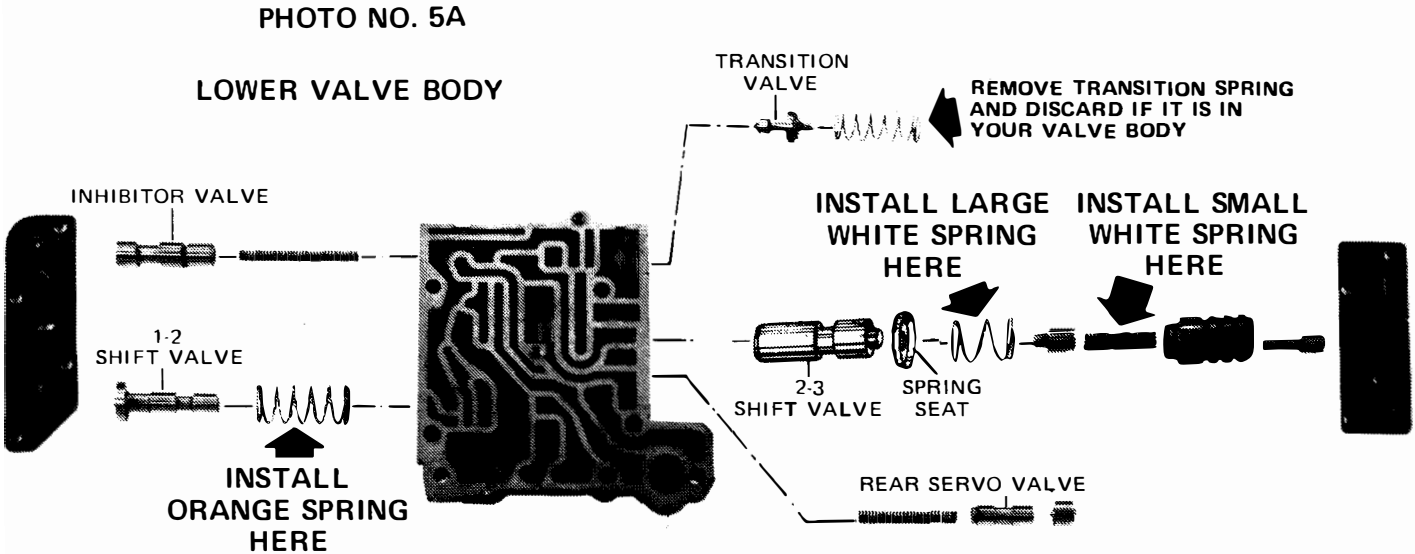
DOWNSHIFT VALVE

MANUAL VALVE

PHOTO NO. 4D

## STEP 16

Install new springs in lower valve body and discard old springs. Remove transition spring as shown in Photo No. 5A.



## STEP 17 VALVE BODY REASSEMBLY

Install check ball in upper valve body as shown in Photo No. 4B. Install large separator plate onto upper valve body as shown in Photo No. 4A.

Install upper valve body onto lower valve body. **DO NOT INSTALL THE REMAINING SMALL SEPARATOR PLATE AND VALVE BODY COVER AT THIS TIME.**

## STEP 18

Place valve body onto transmission case and start the three attaching bolts shown in Photo No. 2A. *Do not tighten them now.*

Make sure pin in selector arm is between the two spools on end of manual valve. The kickdown lever beside it must be between downshift valve and lever stop bracket. When arm on outside of case is moved by hand the lever must push against downshift valve.

## STEP 19

Place small separator plate on cover, slip cover onto servo tubes and install the 4 screws and 4 1/4" bolts and tighten them.

**DO NOT OVERTIGHTEN BOLTS OR SCREWS.**

## STEP 20

Install the two tubes between valve body and pressure regulator. Insert the big tube first into pressure regulator then push it into valve body, wiggle valve body to make installation easier. To install small tube it may be necessary to tap lightly with small hammer or screwdriver handle.

## STEP 21

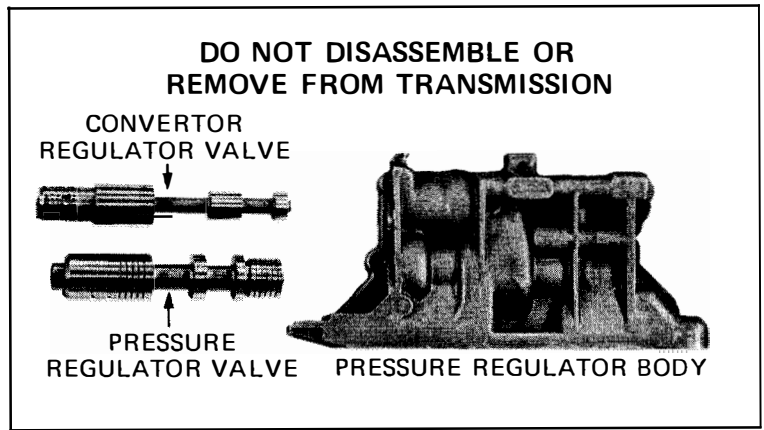
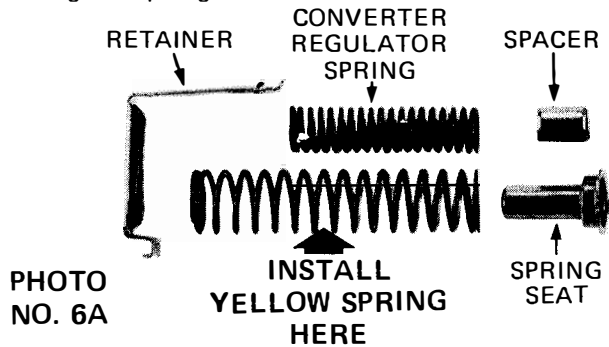
Tighten the three valve body attaching bolts and the front servo bolts.

**VALVE BODY BOLTS** – 80 inch pounds (Firm one hand pressure with speed wrench.)

**SERVO BOLTS** – 25 foot pounds (Firm with ratchet wrench.)

## STEP 22

Install new **YELLOW** pressure regulator spring, use original spring seat. (See Photo No. 6A)



**ATTENTION:** LATE 74's HAVE A SINGLE SPRING TYPE REGULATOR ASSEMBLY. DO NOT INSTALL YELLOW SPRING. RE-USE ORIGINAL SPRING.

## STEP 23

With Lock Nut loose, turn Adjusting Screw until 1/4" bolt will just pass between Servo Apply Rod and the end of Adjusting Screw with slight drag. (See figure No. 6B) Then turn Adjusting Screw "IN" (Clockwise) one (1) Turn and tighten Lock Nut.

(Use 1/4" bolt from valve body or any bolt that a 7/16" wrench will fit.)

1/4" bolt being inserted between Servo Rod and Band Adjusting Screw.

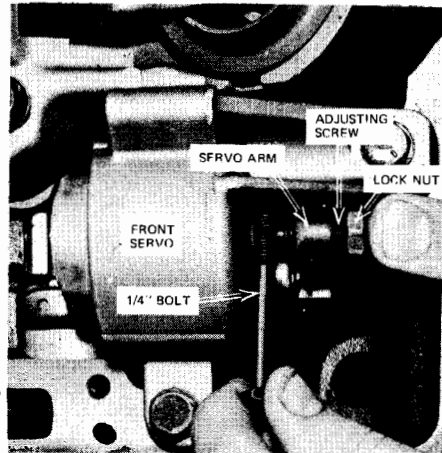


PHOTO NO. 6B

Pull back on Servo Apply Lever until all slack is removed from Band Apply Linkage

## STEP 24

Wash oil pickup screen and install using metal retainer.

## STEP 25

Install new thin gasket onto vacuum modulator. Place your original push rod into modulator and install onto transmission. If you have installed Holley carb or if your exhaust gas recirculator has been disconnected, do not install hose to front tube on modulator.

## STEP 26

Clean transmission oil pan, remove old gasket, install pan using new gasket, connect filler tube.

## STEP 27

Pour three (3) quarts of fluid into transmission. Start engine with selector in "P" (PARK) and add fluid until level is at full mark on dipstick.

## PERFORMANCE

We recommend using Ford "F" fluid in this transmission. It works just fine.

Only **TRANSO** exclusive reprogramming gives you everything.

**PERFORMANCE:** Positive upshifts and downshifts at your finger tips for maximum performance.

**CONVENIENCE:** Automatic shifts in "D" position.

**SAFETY:** Manual downshifts to 2nd at any speed and to 1st at 40-50 mph. depending on carburetor, etc.

We do not recommend any special fluid. Most of these "special" fluids lack some lubricating qualities, and can shorten the life of bushings, bearings, pumps and thrust washers.

## STEP 28 ROAD TESTING

Drive approximately two miles easy before attempting high throttle up-shifts. During this two miles move shift lever to all forward positions a dozen or more times. Check oil level and add oil if necessary. *Do not run above full mark.*

## STEP 29 PERFORMANCE TUNING

If shifts are too early, E.G.R. System may be plugged, disconnected or malfunctioning (dual Diaphragm models). Disconnect front hose at modulator, plug hose with a 1/4" bolt and road test. If shifts are O.K., E.G.R. must be repaired or bolt must be left in line and front tube on modulator left open.

If shifts are late or too firm, remove modulator and install thick gasket furnished along with standard gasket.

If later or firmer shifts are desired, install push rod furnished with thin gasket.

**TRANS GO**<sup>®</sup>  
**REPROGRAMMED**  
**AUTOMATIC**  
T.M.

**MANUAL CONTROL**  
*Stick Shift*  
**KIT NO. 33-3**

**1973-77**  
**Cast Iron Case Cruise-O-Matic**

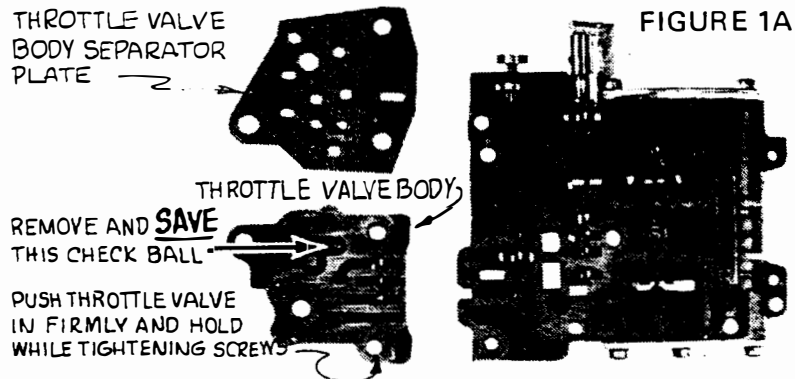
**READ THIS BEFORE STARTING INSTALLATION**

Installing this kit **COMPLETELY ELIMINATES** automatic shifting. "D" position is High Gear, "2" position is Second Gear, "1" position is Low Gear.

Proceed with 33-2 Reprogramming Kit\* installation until you complete Step 10., then follow this instruction sheet to install Stick Shift parts.

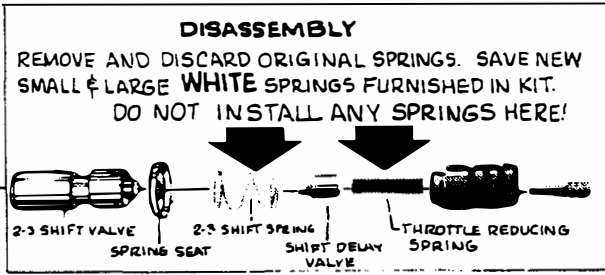
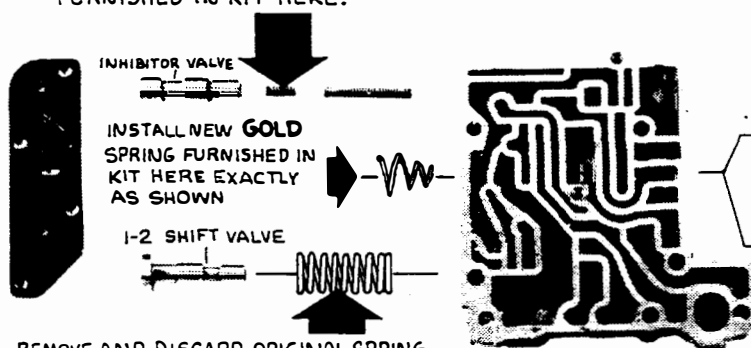
**1. (IN ADDITION TO STEP 11) See Figure 1A.**

- A. Remove Throttle Valve Body and Throttle Valve Body Separator plate under it.
- B. Remove and **SAVE** Check Ball.
- C. Reinstall Throttle Valve Body and its Separator Plate. Start screws but do not tighten. Push Throttle Valve in firmly and hold while tightening screws.



INSTALL SMALL **BLUE** INHIBITOR SHIM FURNISHED IN KIT HERE.

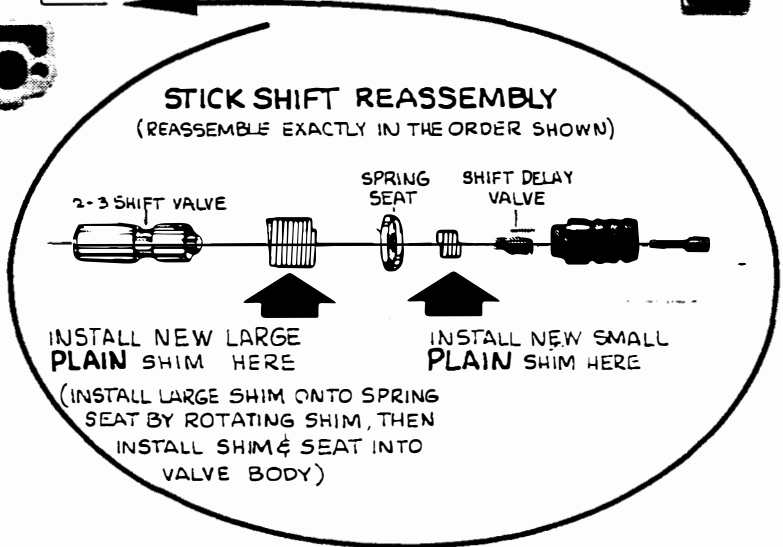
**FIGURE 1B**



REMOVE AND DISCARD ORIGINAL SPRING. INSTALL NEW **SILVER** SPRING FURNISHED IN KIT. (SAVE NEW **ORANGE** SPRING)

**2. (IN ADDITION TO STEP 16) See Figure 1B.**

- A. Remove 2-3 Shift Spring and Throttle Reducing Spring.
- B. Install **SMALL PLAIN** and **LARGE PLAIN** Shift Delay Valve Shims.
- C. Install Small **BLUE** Inhibitor Shim, **GOLD** 2-3 Shift Spring and **SILVER** 1-2 Shift Spring.



**3.** (IN ADDITION TO STEP 17) See Figure 2A

Be sure to reinstall original 3/16" Check Ball in Upper Valve Body as shown. Now install the new 3/16" Check Ball and PINK Spring in location indicated in Figure 2A.

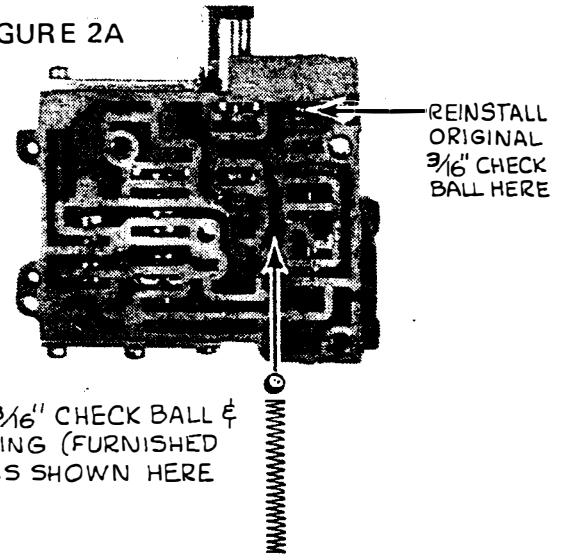
**4.** Continue to install Reprogramming Kit™ as shown in Step 8 of Reprogramming instructions.

**5.** Disconnect downshift cable or rod at the transmission. It is best to have manifold vacuum connected to the modulator. If vacuum is not possible leave tube on modulator "open." Do not use "trick" plugs to eliminate modulator. **MODULATOR MUST BE USED** even if vacuum is not connected.

**6.** If you have a bind-up on the 1-2 shift, back off rear band adjustment one additional turn.

UPPER VALVE BODY

FIGURE 2A



TO CONVERT BACK TO AUTOMATIC SHIFTS:

A. Remove 3/16" Check Ball and PINK Spring from Throttle Valve Body. Reinstall original 3/16" Check Ball in Throttle Valve Body. (See Figure 1A)

B. Remove Small BLUE Inhibitor Shim, GOLD 2-3 Shift Spring, SILVER 1-2 Shift Spring, SMALL PLAIN and LARGE PLAIN Shift Delay Valve Shims. Install ORANGE 1-2 Shift Spring, SMALL WHITE and LARGE WHITE 2-3 Shift Springs. (See Figure 1B)

C. Reconnect and adjust Downshift Rod or Cable.

IMPORTANT OPERATING INSTRUCTIONS

*When moving backwards (Reverse), always come to a COMPLETE STOP before selecting a forward gear. Do not attempt to make a rolling reverse "Wheelie" or start a burn out while moving backwards. The entire force of changing directions goes to the low roller (Sprag).*

We thank you very much for using this kit. We hope that you will enjoy using it as much as we enjoyed making it.

*Now you are ready to throw a shift that will make the 4 Speeders Jealous!*

TRANS GO ■ 2621 MERCED AVENUE ■ EL MONTE, CALIFORNIA 91733





# TRANS<sup>GO</sup>

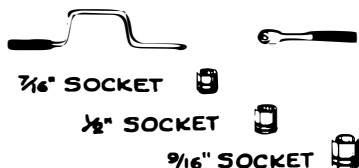
## REPROGRAMMED AUTOMATIC

### 1967-72

## Cast Iron Case Cruise-O-Matic

#### TOOLS RECOMMENDED FOR EASIEST, QUICKEST INSTALLATION

##### SPEED HANDLE OR RATCHET



##### SCREW DRIVER



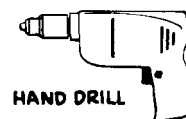
##### VACUUM MODULATOR WRENCH OR WATER PUMP PLIERS



##### 9/16" WRENCH



##### CRESCENT WRENCH



HAND DRILL

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A Trans-GO Kit will more than double the life of your transmission under high load conditions. There's no reason to lose precious efficiency with soft shifts that generate heat and consume horsepower.

Trans-GO brings automatic transmission performance out of the dark ages into the space age, in one giant step. Installed in your transmission, a Trans-GO Kit recalibrates it to hi-performance specifications. It controls shift timing and "shift feel" for instant response and racing performance.

Cleanliness is important. An ideal place for valve body work is a clean table or work bench free of any other parts or springs. A piece of cardboard makes an excellent working surface once the valve body has been drained of transmission fluid.

*Now you are ready to throw a shift that will make the 4 Speeders Jealous!*

TRANS-GO • 2621 MERCED AVENUE • EL MONTE, CALIFORNIA 91733

THIS KIT WILL NOT FIT 1973 OR LATER TRANSMISSIONS OR ANY TRANSMISSION WITH DUAL DIAPHRAGM MODULATOR.

**STEP 1**

Loosen oil pan and drain oil. If filler tube screws into pan, remove it. If fluid is to be reused it should be drained into a clean container.

**STEP 2**

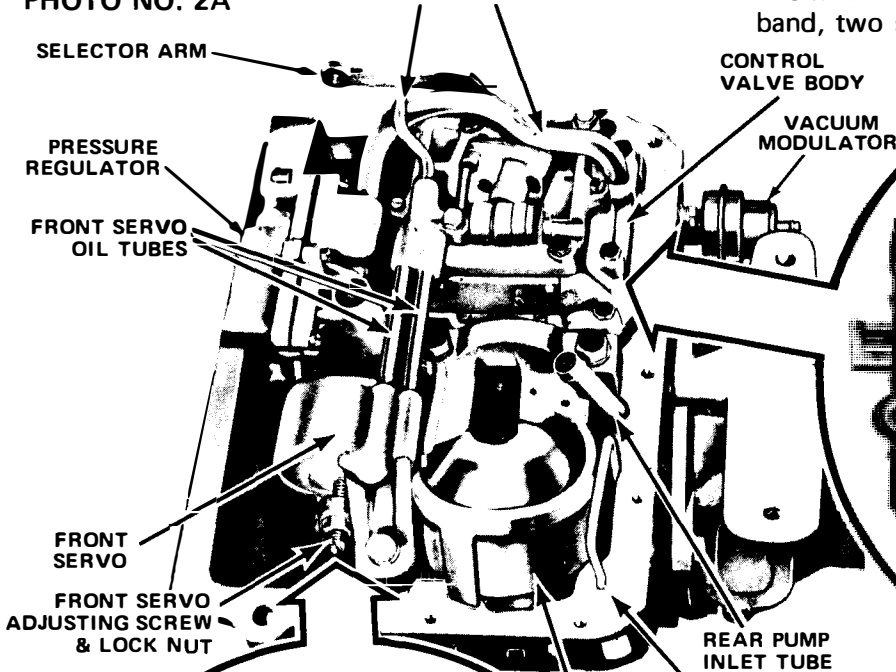
Disconnect vacuum hose from the vacuum modulator located on left rear corner of transmission case. Unscrew vacuum modulator and remove it and push rod. (See Photo No. 2A) Use thin 3/4" wrench, water pump pliers or pipe wrench.

**STEP 3**

The transmission oil screen is held in place with a metal clip, notice how it is installed. Remove clip and oil screen.

REMOVE THESE TWO TUBES CONNECTING VALVE BODY TO PRESSURE REGULATOR

PHOTO NO. 2A



**STEP 4**

Remove the two tubes connecting valve body to pressure regulator. To remove big tube, unplug at valve body first. Be very careful, do not bend or distort tubes. (See Photo No. 2A)

**STEP 5**

If you are installing a 37-1 Kit, go directly to step 8. If you are installing a 37-2 or L37-2 Kit, continue as follows:

Loosen locknut on front servo adjusting screw and back screw out until the servo arm touches the apply rod. (See Photo No. 2B)

**STEP 6**

Remove both front servo attaching bolts (use 9/16 socket) (some servos have only one bolt) and the three bolts attaching valve body to case (use 7/16 socket). Remove valve body and front servo together. Watch for band apply strut, it connects servo arm to the front band and will probably fall out when servo is removed. On models with flex band, two struts may fall out. (See Photo 2D)

PHOTO NO. 2C

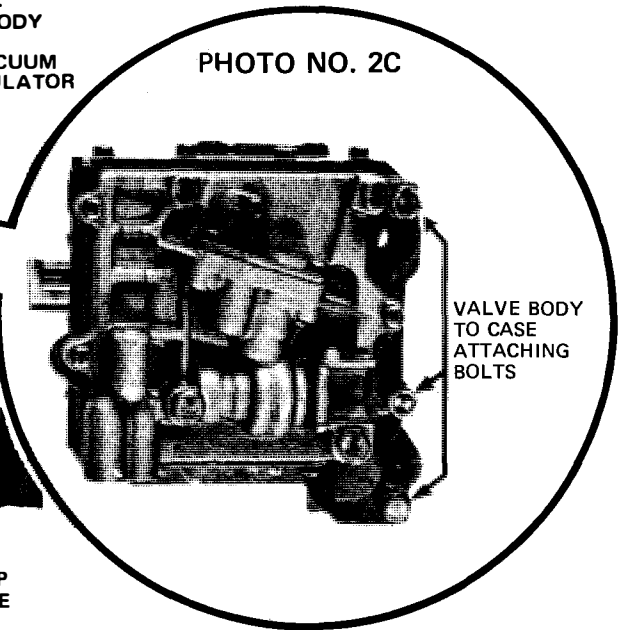


PHOTO NO. 2B

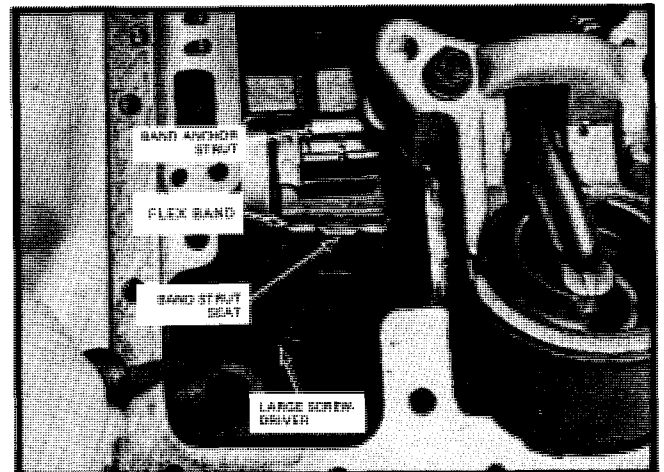
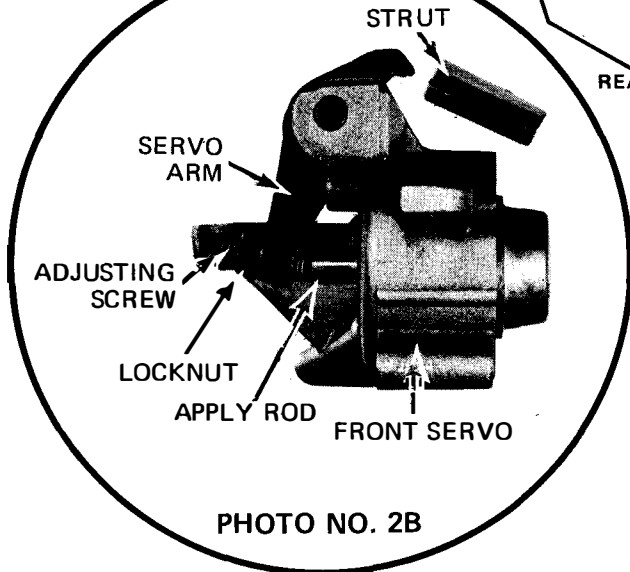


PHOTO NO. 2D

## STEP 7

Remove two tubes between servo and valve body. Install new servo parts as shown. (See Photo No. 3A)

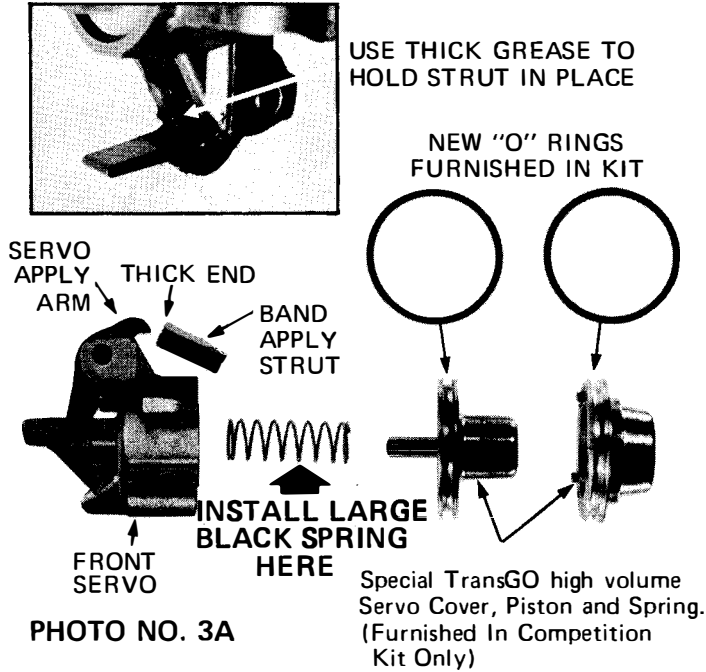


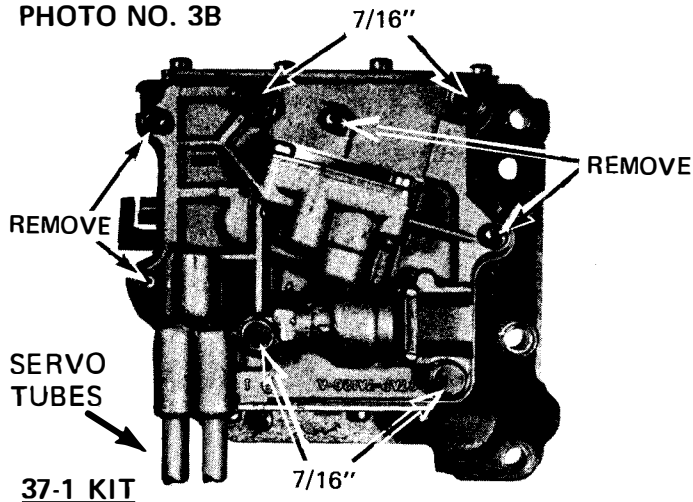
PHOTO NO. 3A

Install thick end of strut into band apply arm (Photo No. 3A). Use thick grease to hold it in position. While installing servo onto case, slide thin end of strut into strut seat on band.

If you have flex band as shown in Photo No. 2D, see that anchor strut is in position and hold band with screwdriver as servo is installed.

## STEP 8 VALVE BODY

PHOTO NO. 3B



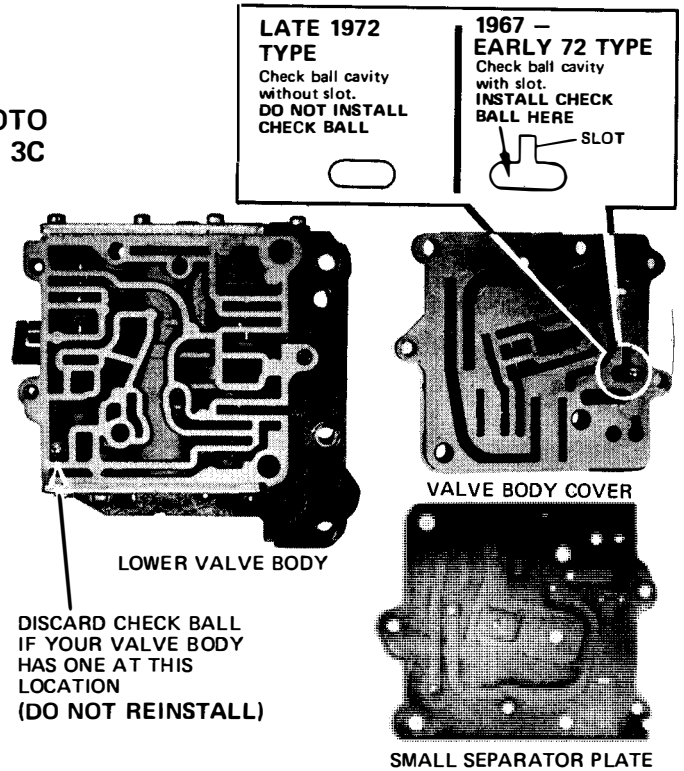
37-1 KIT

Remove four bolts (use 7/16" socket) and four screws that attach valve body cover. (See Photo No. 3B) Slide valve body cover off servo tubes. Remove small separator plate with cover. Remove three bolts attaching valve body to case (use 7/16" socket and remove valve body. (See Photo No. 2C) **37-2 or L37-2 KITS**

Remove four bolts (use 7/16" socket) and four screws that attach valve body cover. (See Photo No. 3B)

## STEP 9

PHOTO NO. 3C



## STEP 10

Remove and discard spring and ball from cover as shown in Photo No. 3D.

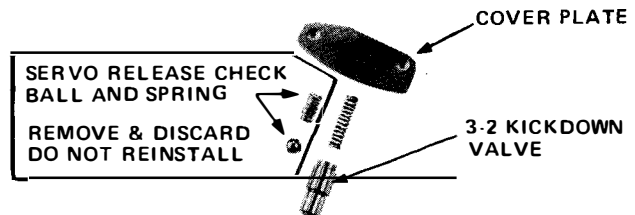
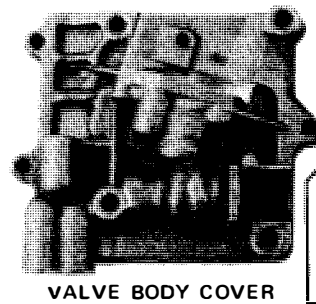
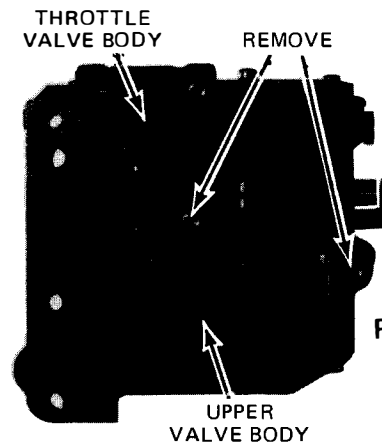


PHOTO NO. 3D



VALVE BODY COVER

1-2 SHIFT ACCUMULATOR VALVE & SPRING  
DO NOT DISASSEMBLE



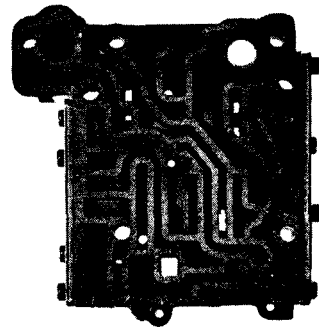
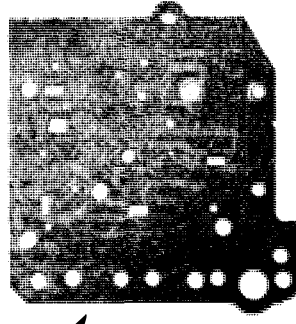
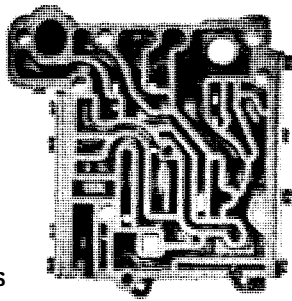
## STEP 11

Remove two screws attaching upper valve body to main valve body. (See Photo No. 3E)

PHOTO NO. 3E

LOWER VALVE BODY

LOWER VALVE BODY



### STEP 12

Remove two screws attaching separator plate to upper valve body. (See Photo No. 4A)

PHOTO NO. 4B

CHECK BALL REMOVE NOW REINSTALL LATER

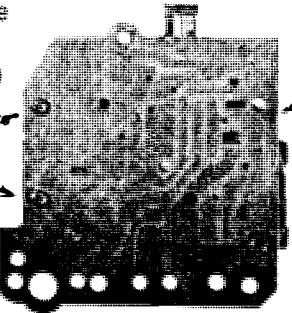
LARGE SEPARATOR PLATE

### STEP 13

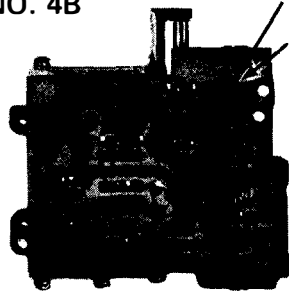
Watch for check ball as you lift large separator plate from upper valve body. (See Photo No. 4B)

REMOVE

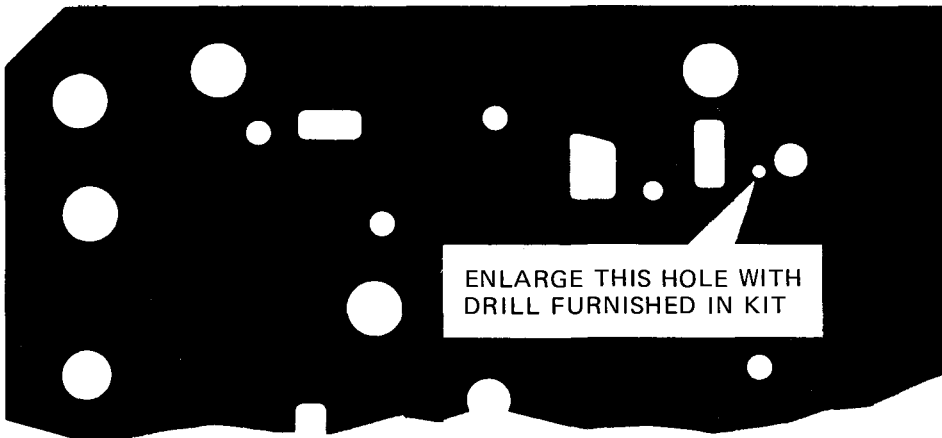
PHOTO NO. 4A



UPPER VALVE BODY



UPPER VALVE BODY



ENLARGE THIS HOLE WITH DRILL FURNISHED IN KIT

### STEP 14

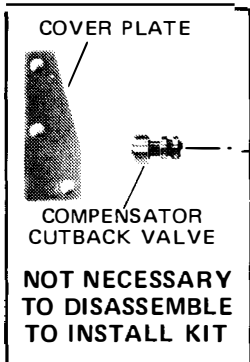
Enlarge hole in separator plate as shown with drill furnished (See Photo No. 4C).

PHOTO NO. 4C

### STEP 15

Install new valve and springs in upper valve body, discard old parts they replace. (See Photo No. 4D)

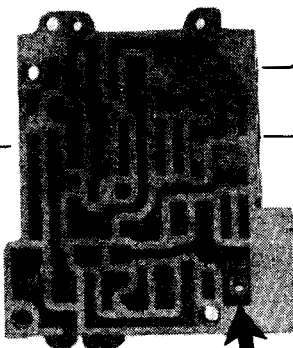
UPPER VALVE BODY



COVER PLATE

COMPENSATOR CUTBACK VALVE

NOT NECESSARY TO DISASSEMBLE TO INSTALL KIT



3/16" BALL HERE

REPLACE WITH NEW COMPENSATOR VALVE

INSTALL SMALL BLACK SPRING HERE

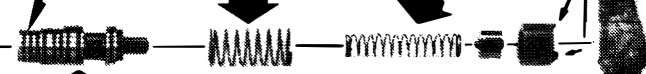


THROTTLE BOOST

Compare small land of new Compensator Valve with original valve, if land on new valve is smaller you have a 1973 valve body. (Use 1973 and later kit.)

INSTALL BLUE SPRING HERE

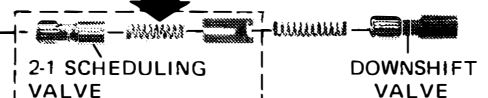
INSTALL SMALL YELLOW SPRING HERE



KNOB

LEVER STOP BRACKET

INSTALL SMALL ORANGE SPRING HERE



2-1 SCHEDULING VALVE NOT USED IN LATE '72 VALVE BODIES

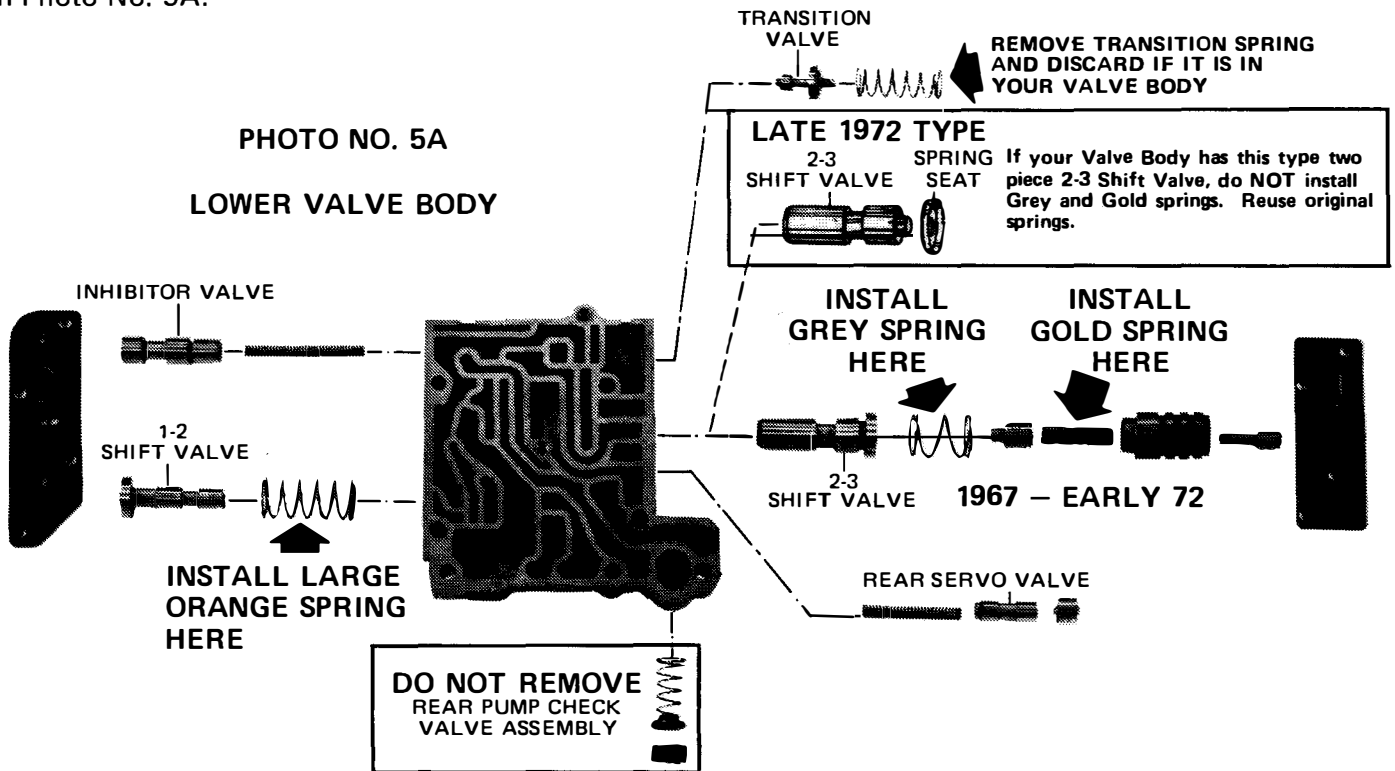
DOWNSHIFT VALVE

MANUAL VALVE

PHOTO NO. 4D

## STEP 16

Install new springs in lower valve body and discard old springs. Remove transition spring as shown in Photo No. 5A.



## STEP 17 VALVE BODY REASSEMBLY

Install check ball in upper valve body as shown in Photo No. 4B. Install large separator plate onto upper valve body as shown in Photo No. 4A.

Install upper valve body onto lower valve body. **DO NOT INSTALL THE REMAINING SMALL SEPARATOR PLATE AND VALVE BODY COVER AT THIS TIME.**

## STEP 18

Place valve body onto transmission case and start the three attaching bolts shown in Photo No. 2A. *Do not tighten them now.*

Make sure pin in selector arm is between the two spools on end of manual valve. The kickdown lever beside it must be between downshift valve and lever stop bracket. When arm on outside of case is moved by hand the lever must push against downshift valve.

## STEP 19

Place check ball in correct location in cover. (See Photo No. 3C)

Place small separator plate on cover, slip cover onto servo tubes and install the 4 screws and 4 1/4" bolts and tighten them.

**DO NOT OVERTIGHTEN BOLTS OR SCREWS.**

## STEP 20

Install the two tubes between valve body and pressure regulator. Insert the big tube first into pressure regulator then push it into valve body, wiggle valve body to make installation easier. To install small tube it may be necessary to tap lightly with small hammer or screwdriver handle.

## STEP 21

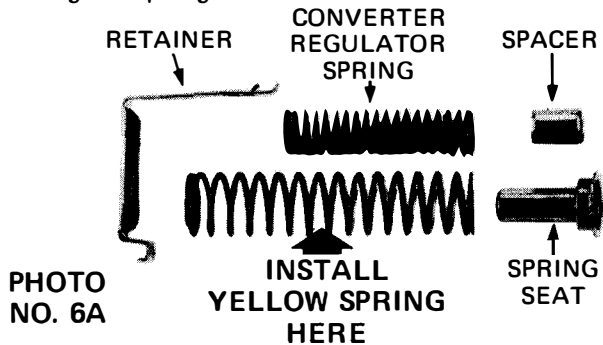
Tighten the three valve body attaching bolts and the front servo bolts.

**VALVE BODY BOLTS** – 80 inch pounds (Firm one hand pressure with speed wrench.)

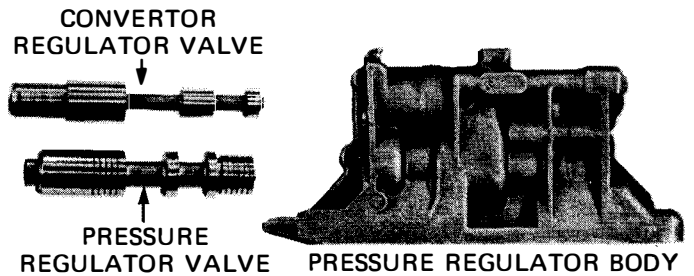
**SERVO BOLTS** – 25 foot pounds (Firm with ratchet wrench.)

## STEP 22

Install new **YELLOW** pressure regulator spring, use original spring seat. (See Photo No. 6A)



**DO NOT DISASSEMBLE OR REMOVE FROM TRANSMISSION**



## STEP 23

With Lock Nut loose, turn Adjusting Screw until 1/4" bolt will just pass between Servo Apply Rod and the end of Adjusting Screw with slight drag. (See figure No. 6B) Then turn Adjusting Screw "IN" (Clockwise) one (1) Turn and tighten Lock Nut.

*(Use 1/4" bolt from valve body or any bolt that a 7/16" wrench will fit.)*

1/4" bolt being inserted between Servo Rod and Band Adjusting Screw.

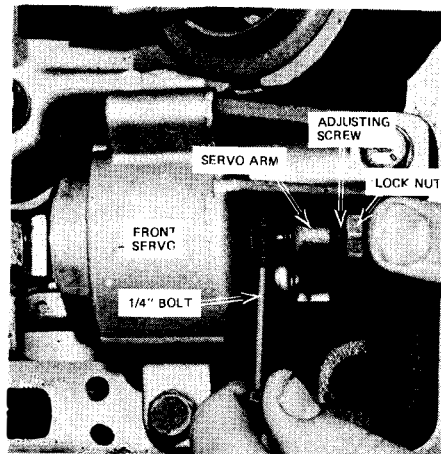


PHOTO NO. 6B

Pull back on Servo Apply Lever until all slack is removed from Band Apply Linkage

## STEP 24

Wash oil pickup screen and install using metal retainer.

## STEP 25

Push rod into new vacuum modulator (furnished) and install on transmission, connect vacuum hose.

## STEP 26

Clean transmission oil pan, remove old gasket, install pan using new gasket, connect filler tube.

## STEP 27

Pour three (3) quarts of fluid into transmission. Start engine with selector in "P" (PARK) and add fluid until level is at full mark on dipstick.

## PERFORMANCE

We recommend using Ford "F" fluid in this transmission. It works just fine.

We do not recommend any special fluid. Most of these "special" fluids lack some lubricating qualities, and can shorten the life of bushings, bearings, pumps and thrust washers.

## STEP 28 ROAD TESTING

Drive approximately two miles easy before attempting high throttle up-shifts. During this two miles move shift lever to all forward positions a dozen or more times. Check oil level and add oil if necessary. Do not run above full mark.

**IMPORTANT:** After vehicle has been driven 10 to 20 miles **RECHECK OIL LEVEL.**

## STEP 29 PERFORMANCE TUNING

### Adjusting the Vacuum Modulator.

Remove vacuum hose from modulator. Adjust screw is inside of tube. Use very small screwdriver. For later or firmer shifts turn screw "IN" (clockwise) no more than 6 turns. For early or softer shifts turn screw "OUT" no more than 2 turns. Early shifts give better economy and overall performance.

Only **TRANSCO** exclusive reprogramming gives you everything

**PERFORMANCE:** Positive upshifts and downshifts at your finger tips for maximum performance.

**CONVENIENCE:** Automatic shifts in "D" position.

**SAFETY:** Manual downshifts to 2nd at any speed and to 1st at 40-50 MPH depending on axle ratio and carburetion.

**TRANS GO**<sup>®</sup>  
**REPROGRAMMED**  
**AUTOMATIC** T.M.

**MANUAL CONTROL**  
*Stick Shift*  
**KIT NO. L37-3, 37-3**

# 1967-72 Cast Iron Case Cruise-O-Matic

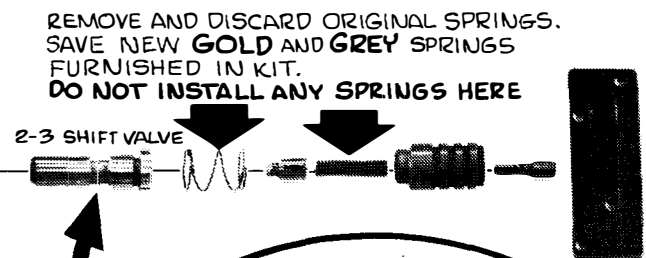
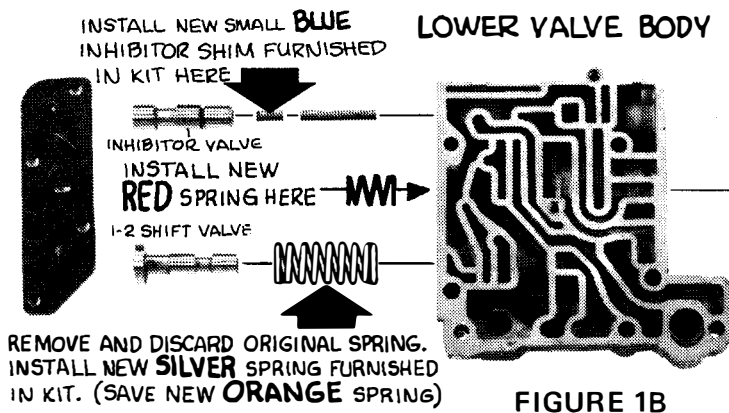
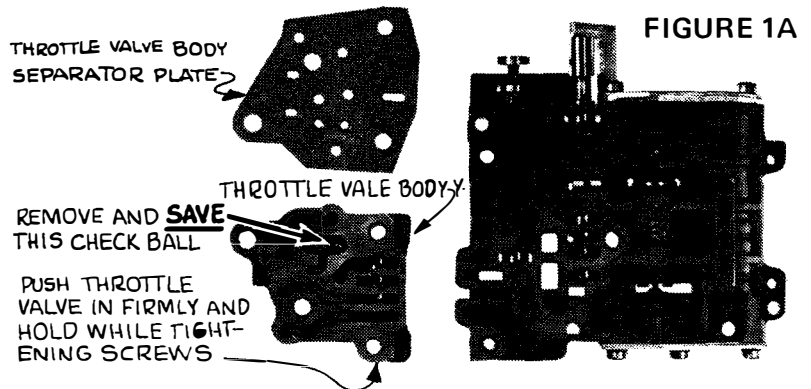
**READ THIS BEFORE STARTING INSTALLATION**

Installing this kit **COMPLETELY ELIMINATES** automatic shifting. "D" position is High Gear, "2" position is Second Gear, "1" position is Low Gear.

Proceed with L37-2, 37-2 Reprogramming Kit\* installation until you complete Step 10., then follow this instruction sheet to install Stick Shift parts.

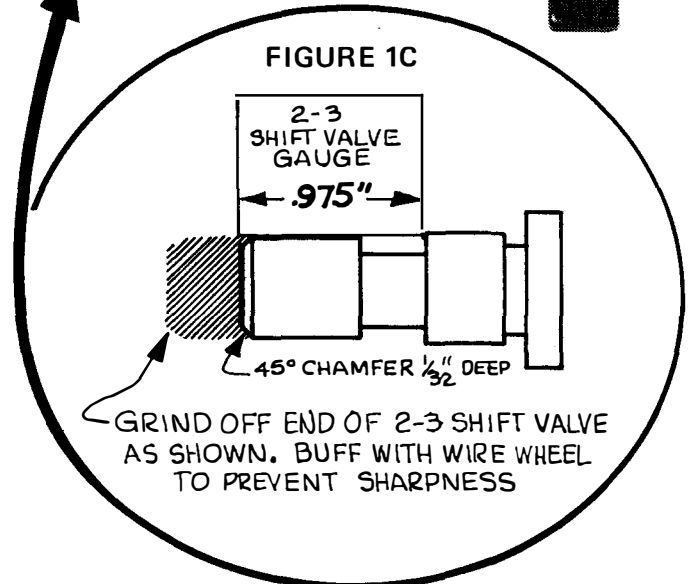
**1. (IN ADDITION TO STEP 11) See Figure 1A.**

- A. Remove Throttle Valve Body and Throttle Valve Body Separator Plate under it.
- B. Remove and SAVE Check Ball.
- C. Reinstall Throttle Valve Body and its Separator Plate. Start screws but do not tighten. Push Throttle Valve in firmly and hold while tightening screws.



**2. (IN ADDITION TO STEP 16) See Figure 1B.**

- A. Remove INNER and OUTER 2-3 shift springs as shown.
- B. Grind 2-3 Shift Valve (See Figure 1C). Use paper template in kit to measure proper length. This length must be very accurate.
- C. Install Small BLUE Inhibitor Shim, RED 2-3 Shift Spring and SILVER 1-2 Shift Spring. (See Figure 1B)



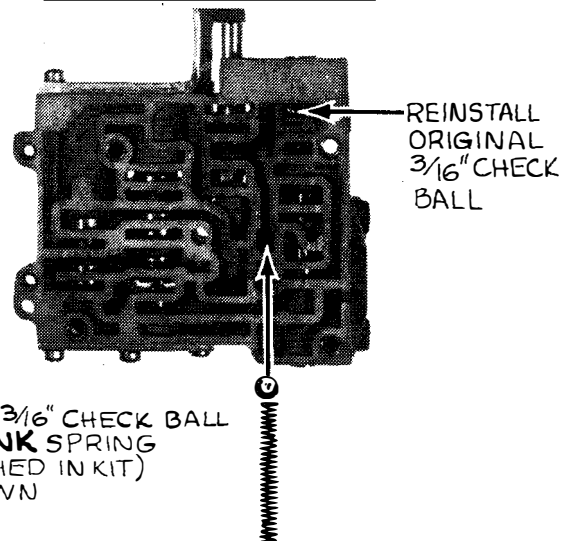
**3.** (IN ADDITION TO STEP 17) See Figure 2A  
Be sure to reinstall original 3/16" Check Ball in Upper Valve Body as shown. Now install the new 3/16" Check Ball and **PINK** spring in location indicated in Figure 2A.

**4.** Continue to install Reprogramming Kit<sup>T.M.</sup> as shown in Step 8 of Reprogramming instructions.

**5.** Disconnect downshift cable or rod at the transmission. It is best to have manifold vacuum connected to the modulator. If vacuum is not possible leave tube on modulator "open." Do not use "trick" plugs to eliminate modulator. **MODULATOR MUST BE USED** even if vacuum is not connected.

**6.** If you have a bind-up on the 1-2 shift, back off rear band adjustment one additional turn.

### UPPER VALVE BODY



INSTALL 3/16" CHECK BALL AND **PINK** SPRING (FURNISHED IN KIT) AS SHOWN

### TO CONVERT BACK TO AUTOMATIC SHIFTS:

A. Remove 3/16" Check Ball and **PINK** Spring from the Throttle Valve Body. Reinstall original 3/16" Check Ball in Throttle Valve Body. (See Figure 1A.)

B. Remove Small **BLUE** Inhibitor Shim, **RED** 2-3 Shift Spring and **SILVER** 1-2 Shift Spring. Install **ORANGE** 1-2 Shift Spring, **GREY** 2-3 Shift Spring and **GOLD** 2-3 Shift Spring. (See Step 2, Figure 1B of this instruction sheet.)

C. Reconnect and adjust Downshift Rod or Cable.

### IMPORTANT OPERATING INSTRUCTIONS:

*When moving backwards (Reverse), always come to a COMPLETE STOP before selecting a forward gear. Do not attempt to make a rolling reverse "Wheelie" or start a burn out while moving backwards. The entire force of changing directions goes to the low roller (Sprag).*

We thank you very much for using this kit. We hope that you will enjoy using it as much as we enjoyed making it.

*Now you are ready to throw a shift that will make the 4 Speeders Jealous!*

TRANSGO ■ 2621 MERCED AVENUE ■ EL MONTE, CALIFORNIA 91733 ■

L37-3, 37-3

HAVE A NICE DAY!



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