



1535 Owens Road, Jacksonville, FL 32218 Phone (904)741-4850***FAX (904)741-4853 www.turboaction.com



CHEETAH SCS SHIFTER

Part # 70012

Fits: GM Turbo 200 (ALL), Turbo 250 (ALL), Turbo 350 (ALL) & Turbo 400 (ALL) (NOTE: Will Not fit any 2-speed or 4-speed automatic transmissions)

Parts Breakdown

1 - G.M. Control

- 70083B Gear Position Indicator Decal (PRN123)

1 - 70102 Special Five Foot Cable 1 - 70200A Control Switch 10AMP

1 - 70211 Park/Neutral Start Switch Kit (G.M. & Ford Only)

Includes:

1 - 70210A Switch

1 - 70049 Switch Mounting Bracket
2 - 70154 Nylon Rollers (On Shifter)
2 - 70155 Clevis Pins (On Shifter)
2 - 70136A Cotter Pins (On Shifter)

1 - 70139 Switch Nut

1 - 70223 Installation Kit

Includes:

1 - Set of Instructions

- 70031 Turbo 200/250/350/400 Shift Arm Lever

1 - 70050A G.M. Pan Cable Bracket

1 - 70130S Pivot

1 - 70131 Cable Clamp (U-Shaped) 1 - 70132 Cable Clamp Flat Shim

2 - 70133 Cable Clamp Screws

2 - 70135 Cable Clamp Nuts

1 - 70136B Hairspring Cotter

2 - 70137 5/16" x 18 x 1" Bolts

2 - 70138 5/16" Lock Washers

2 - 50101 Contingency Decals

The Turbo Action *Cheetah Competition SCS Shifter* is the finest competition shifter built today. If installed properly, it will last for many years with flawless performance.

This shifter will work with GM 3-speed reverse pattern valve bodies only! Turbo Action #70002B will work either stock or reverse pattern.

FIRST, READ INSTRUCTIONS CAREFULLY, THEN PROCEED WITH EACH STEP INDIVIDUALLY.

Part #70012 1 2/92,7/98,1/02,6/06

<u>Use Lifter Only To Go into Reverse</u>. The unique reverse lockout system requires only that you lift the reverse lockout mechanism with your two fingers while placing into reverse with the same hand. <u>Note:</u> <u>Do NOT</u> lift mechanism for any other shift!

CAUTION: In a race it is imperative that the forward gears be precise in relation to the shifter.

CAUTION! CAUTION!

Be absolutely sure that vehicle is in park or neutral position before attempting to start motor, and be sure that park/neutral safety switch is adjusted properly.

SPECIAL NOTE: Sanctioned dragstrips require functional Neutral Safety Switch mandatory.

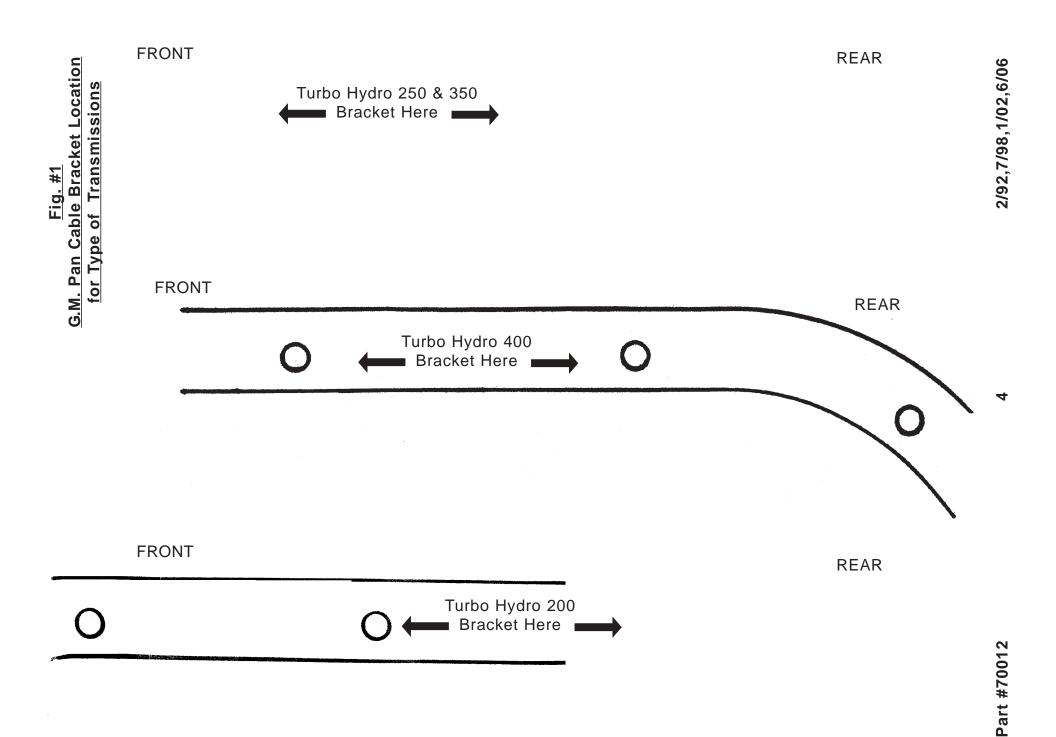
- STEP # 1: The Shifter is preassembled and only requires locating a suitable spot to mount it and hooking up the necessary bracket to hang cable to side of the transmission.
- STEP # 2: If mounting shifter on thin floor pan, such as a Super Gas or Econo-Altered, would suggest putting a thin steel strapping behind the floor pan to offer a support where the shifter mounting bolts go through. Be sure to locate shifter in a position which will be comfortable for the driver to shift. After drilling holes in floor, start two rear bolts and make finger tight. Two front bolts leave out at this time; as you will be installing your Park/Neutral Start Switch Mounting Bracket later.
- SPECIAL NOTE: The G.M. Shifter #70012 has the cable exiting out the rear of the control towards the rear end. It then makes a 180 turn back towards engine. The cable should in most cases go under the cross member and then mount to the transmission.
- STEP # 3: The cable included with this shifter is very unique. You can make many tight radius turns and it will still work smoothly. It also is very sturdy even though it is highly flexible.
- STEP # 4: When routing the cable, be sure to keep away from rotating parts (driveshaft, u-joints, etc.) and hot parts (headers, mufflers, etc.). NOTE: On installation if you will come through floor pan as close to the driver's side of the hump as possible, the cable will then lie snug against the side of hump and will be 4-5 inches from the driveshaft. If necessary, use some plastic ties to keep cable from moving around.
- STEP # 5: The #70050A G.M. Pan Cable Bracket is completely universal with no compromise. NOTE: Fig. #1 which gives bracket location on transmission pan rail for the Turbo 200, Turbo 250, Turbo 350 and Turbo 400.
- STEP # 6: Before bolting transmission Pan Cable Bracket to transmission install the u-shaped Cable Clamp and Shim into proper set of holes (See Fig. #2).

- STEP # 7: Install special Shift Arm Lever #70031 (Fig. #2 & #3). The side which is stamped "This Side Out" must face you when installed. **CAUTION:** You must use the Turbo Action Part #70031 Shift Arm Lever when on a Turbo Hydro "200", "250", "350" & "400". No other brand lever (Hurst, B & M, etc.) will work properly for gate alignment, unless they specifically claim it fits Turbo Action shifter. Otherbrands could result in transmission failure.
- STEP # 8: Position Pan Cable Bracket and U-shaped Cable Clamp and Shim as shown in Fig. #2 & #3.
- <u>STEP # 9:</u> Wire Park/Neutral Safety Switch into your wiring per Fig. #6.
- STEP #10: Install 70210A Switch and #70139 Switch Nut to the #70049 Switch Mounting Bracket (Fig. #4 & #5).
- STEP #11: Slide the Switch Mounting Bracket underneath the shifter mounting brackets. Reinstall the bolts into floor, but do <u>not</u> tighten all the way at this time (Fig #4 and #5.
- STEP #12: Note that the Switch can be slid up and down. In addition, the Switch Mounting Bracket can be slid forward and back. Before adjusting Switch, the following must be done first.
- STEP #13: A. Place shifter in third gear (High).
 - B. Place transmission Shift Arm Lever in same position which will be pulled back all the way towards the rear of the car.
 - C. Adjust Pivot to fit into hole in Shift Arm Lever.
 - D. Before installing Hairspring Cotter have someone sit in car and move lever through each gear while you check to see if shift lever on transmission is moving the full distance.

CAUTION, VERY IMPORTANT:

When installing the *CHEETAH SCS Shifter*, you must use the Turbo Action Shift Arm Lever & Mounting Bracket supplied otherwise improper alignment of shifter will occur causing possible transmission failure or miss shifts.

- **CAUTION:** In a race car it is imperative that the forward gears be precise in relation to the shifter.
- STEP #14: Adjust Switch and Switch Mounting Bracket until both Park & Neutral will allow the vehicle's engine to start. Also, double check to be sure the vehicle will not start in reverse or any forward gear positions.
- STEP #15: Be sure all bolts are secured properly, including the final tightening up of the bolts mentioned in Step #11.



Pan Cable Bracket Fig. #2

CHEETAH SCS Shifter

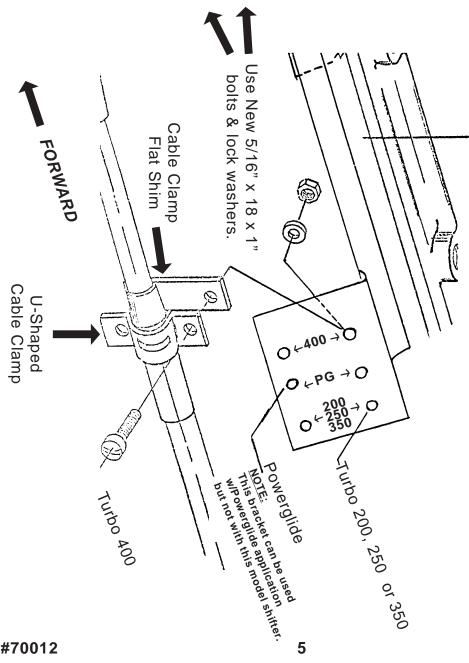
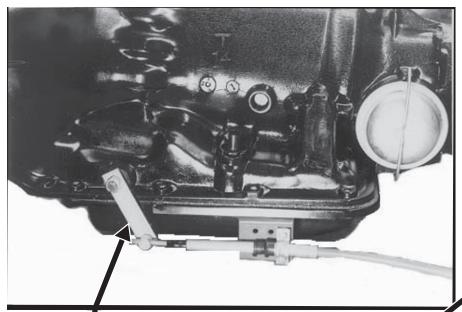
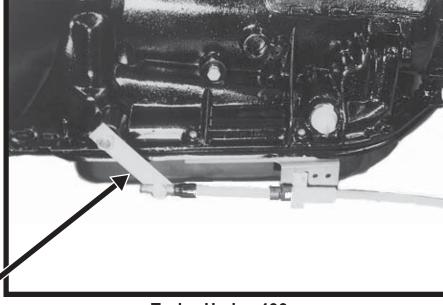


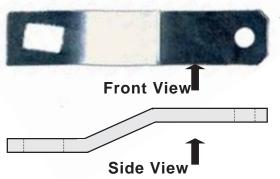
Fig. #3
Pan Cable Bracket & Cable Installation

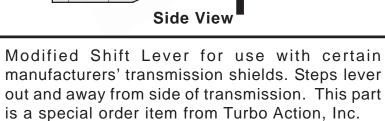


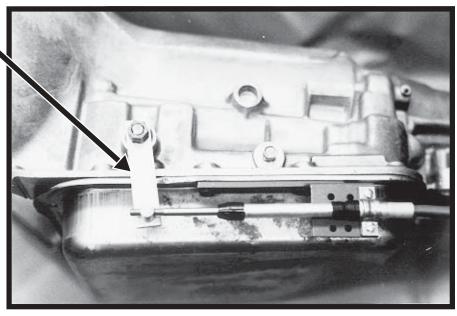


Turbo Hydro 250 & 350

Turbo Hydro 400







Turbo Hydro 200

Part # 70031M

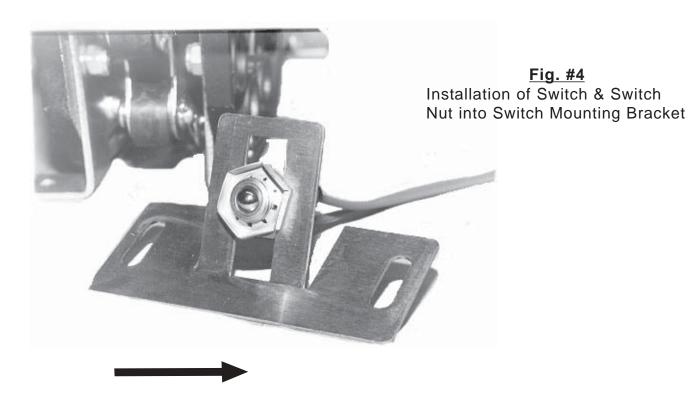
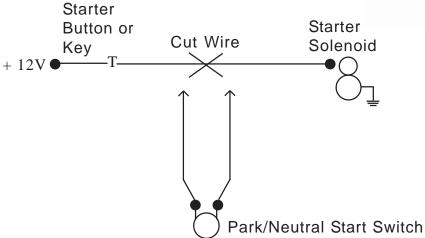
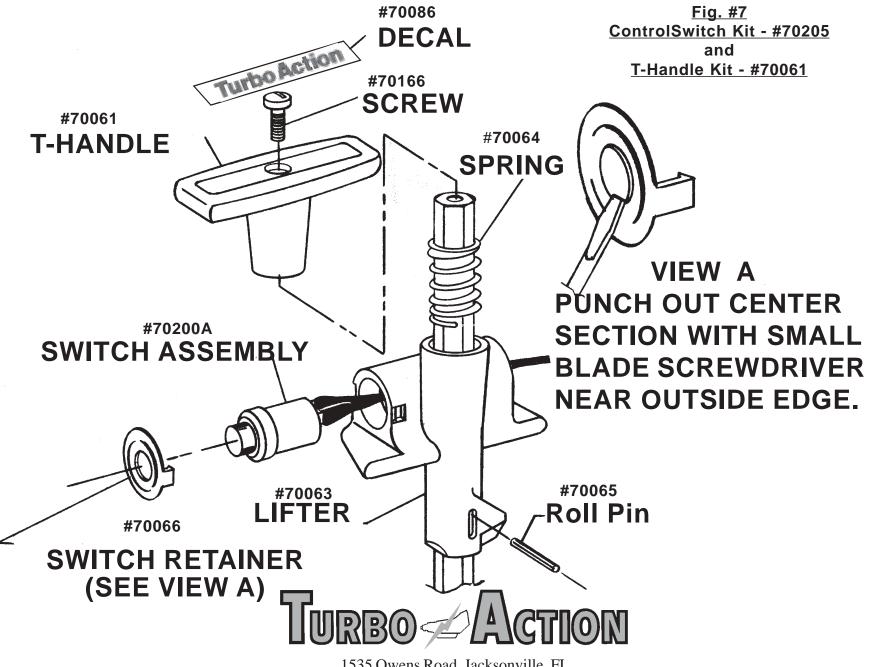


Fig. #5
Installation of Switch, Switch Nut & Mounting Bracket Assembly Underneath Shifter Mounting Brackets

<u>Fig. #6</u> Wire Switch

Suggested Wiring Diagram





1535 Owens Road, Jacksonville, FL 32218 (904)741-4850 FAX (904)741-4853