

Installation Instructions

Magnum Grip Pro Stick Shifter

Part Number 81040, 81041 & 81042

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The **B&M Magnum Grip Pro Stick** shifter #81040 and #81042 comes equipped with a three speed forward (standard) pattern gate that works with most popular three speed automatic transmissions. To use these shifters with a reverse pattern three speed automatic transmission or a two speed automatic transmission you will need an optional gate plate. The **B&M Magnum Grip Pro Stick** shifter #81041 includes the two speed gate plate, cable bracket and the Powerglide special lever without the throttle valve shaft hole. For use with transbrakes and full manual valve bodies only.

An aluminum mounting bracket is available for the **B&M Magnum Grip Pro Stick** shifter with quick release pins to allow the shifter to be removed and replaced quickly, or the shifter can be mounted directly to the floor. An aluminum housing is supplied with the #81040 or it can be purchased separately to provide a finished look to the shifter. The housing can be used either with or without the mounting bracket. The shifter comes equipped with a neutral safety switch, and an optional backup light switch is available.

The part numbers for the optional products are:

Three speed reverse pattern gate plate	#80710
Four speed gate plate	#80712
Two Speed (Powerglide) gate plate	#80713
Mounting bracket	#80715
Aluminum housing	#80717
Back up light switch	#80609
Powerglide Cable Bracket	#70469

The main mechanical components of this shifter are precision factory assembled. Any modification or disassembly of these parts can cause shifter malfunction and will void the warranty. You should disassemble only that which is detailed in the instructions.

The vehicle should be 1-2 feet off the ground for ease of installation. Jack stands, wheel ramps or a hoist will work fine. Make sure the vehicle is firmly supported. Read through these

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instructions before beginning installation. If you do not understand a particular step at first, go back and re-read the step before proceeding.

Warning: If your vehicle is equipped with a locking steering column, securing the column lock lever in the engine compartment in the full up position will allow the wheel to lock and unlock but will allow the key to lock the wheel if the key is turned to "lock" while moving, or at any time. Securing the lock lever in any other position will prevent the wheel from locking at any time.

If you are going to use a gate plate on the shifter, change it now. Remove the two screws and three "E" rings that hold the gate plate on (**See Figure #1**). Remove the original gate plate and install the new gate plate. Replace the "E" rings and the screws.

Step 1. Remove the stock shift linkage:

Column Shifters: Remove all rods, levers or cables from the column and the transmission. Place the column shifter lever in the park position. Remove the roll pin holding the shift lever to the column and remove the shift lever assembly.

Console Shifters: Remove the shifter mechanism from the console. Disconnect and remove the rod or cable from the transmission if so equipped.

Note: Shifter installation may require console modification or complete console removal depending on your vehicle and available space.

Step 2. If so equipped, pull the carpet away from the floorboard where the shifter is to be mounted. Locate the shifter in the vehicle with the stick shifted to the rearmost gate position and mark the position of the four mounting holes in the floor.

Step 3. Remove the shifter mechanism and drill four mounting holes using a 9/32" drill bit. Mark the position of the shifter cable hole. The cable hole must be 1 inch in diameter. Drill or cut the cable hole in the floorboard.

Step 4. Install the carpet back to the original position. Do not secure the carpet at this time. Cut holes in the carpet at the mounting hole position. Cut a 1 inch slit in the carpet at the cable hole position.

Step 5. Install the cable onto the shifter mechanism. One end

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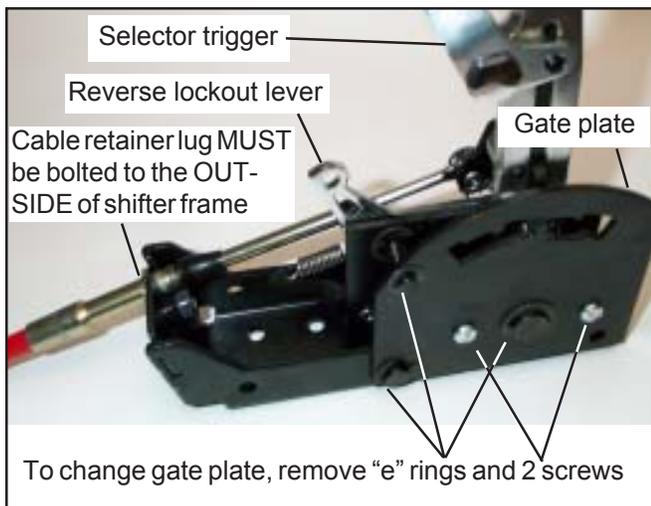


Figure #1

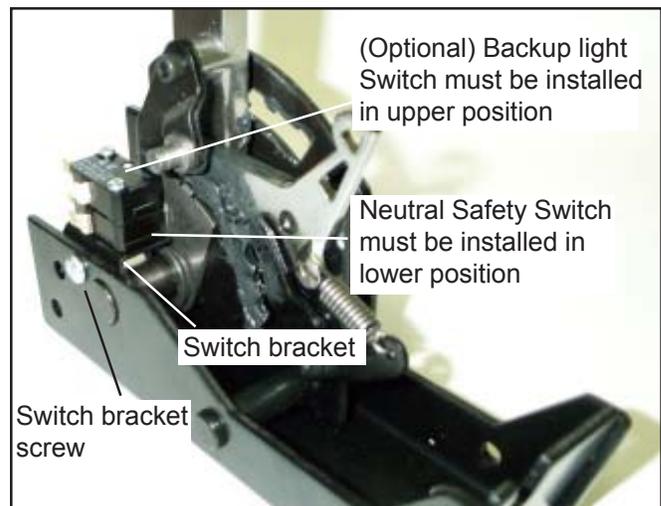


Figure #2

of the cable has a threaded housing and a threaded cable end. This is the transmission end of the cable. The other end of the cable has a flat cable end with a hole. Fit the cable housing into the U-shaped notch in the shifter mechanism and fasten the retainer lug with the supplied 1/4" - 20x1/2" bolt, lockwasher and nut to the outside of the shifter frame. (See Figure #1) Install the "E" ring to retain the cable. Use cable clamps or tie-wraps to secure the cable to avoid contact with hot engine or exhaust system.

Step 6. Install the neutral safety switch in place on the switch bracket (See Figure #2). Install two #4-40 x 5/8" screws through the switch and the bracket. Install a lockwasher and a nut on each screw and tighten snugly. Do not overtighten the nuts as you may crack the switch. Install the switch bracket assembly on the shifter base with a 10-24 x 1/2" pan head screw. If required, you can adjust the switch relative to the switch actuator plate.

Step 7. Install the shifter mechanism into the vehicle. Slide the shifter cable through the carpet and the cable hole in the floor. The shifter mechanism should be level when installed. Make sure the cable is routed according to Figure #3 to avoid sharp bends or damage to the cable. Install the 1/4" -20x1-1/2" bolts, washers, and nuts (supplied) through the shifter and the floorboard and tighten securely.

Note: Some floorboards are extremely thin and will not adequately support the shifter mechanism when bolted to the floor, resulting in excessive shifter wobble. For those vehicles, we recommend you fabricate a stiffener plate for additional strength. Seal the cable hole securely to prevent entry of exhaust gases.

GM Vehicles: go to Sep 8.

Ford Vehicles: go to Sep 13.

Chrysler Vehicles: go to Sep 19.

Powerglide Equipped Vehicles: go to Step 25.

GENERAL MOTORS

Step 8. If you have not already done so, remove the stock selector lever nut and the selector lever from the transmission. Discard the stock lever and the stock shifter linkage. Install the B&M selector lever in position using the stock selector lever nut (See Figure #4). Torque the nut to 23 lbs.ft.

The lever should move smoothly from front to rear with a positive click in each gear position.

Step 9. Remove the two transmission oil pan bolts from the middle of the left side of the oil pan. Install the cable bracket in position (See Figure #4). The bracket must be installed with two spacers between the pan and THE bracket. (If you transmission is equipped with a cast aluminum oil pan, these spacers should be omitted. With a TH-400 with a cast aluminum oil pan the cable bracket may have to be modified.) Install the two 5/16-18 x 1.00" bolts (Metric transmissions use the two 8mm x 25mm bolts) supplied and tighten 12-13 lbs.ft. Do not overtighten as this can damage the pan gasket.

Step 10. Route the shifter cable according to Figure #3. Avoid kinks and sharp bends and route the cable away from hot engine or exhaust parts. Remove the two rubber boots, one large nut, and a large lockwasher from the threaded end of the shifter cable. Slide the end of the cable into the cable bracket, install the large nut and the lockwasher loosely over the end of the cable. Install the two rubber boots onto the end of the cable. Install the swivel on the threaded end of the cable and position it in the center of the threaded portion.

Step 11. Move the transmission selector lever by hand to the full rear position (Low). Operate the shifter lever to the Low gear position (all the way back). Adjust the large nuts on the cable so that the swivel will slide into the front hole on the selector lever. Tighten the large nuts completely. Be sure that the swivel will slide freely in and out of the hole in the selector lever. **Note:** The shifter will not operate correctly unless the front hole in the shift lever is used. Leave the swivel out of the hole and move the selector lever to Park, all the way forward. Also move the shifter to the Park position (all the way forward). Reinsert the swivel into the front hole in the selector lever. Check to see that the swivel will slide freely in and out of the front hole in the selector lever in this position. If it does not slip in freely, adjust the swivel slightly until it will slip into the hole in the lever.

Move the shifter back to the Low gear position and check that the swivel will still slide easily in and out of the front hole in the selector level. (If you do not use the front hole in the lever, it will be impossible to correctly adjust the cable.) Operate the shifter through all the gear positions. Check to make sure the swivel will slide in and out of the front selector lever

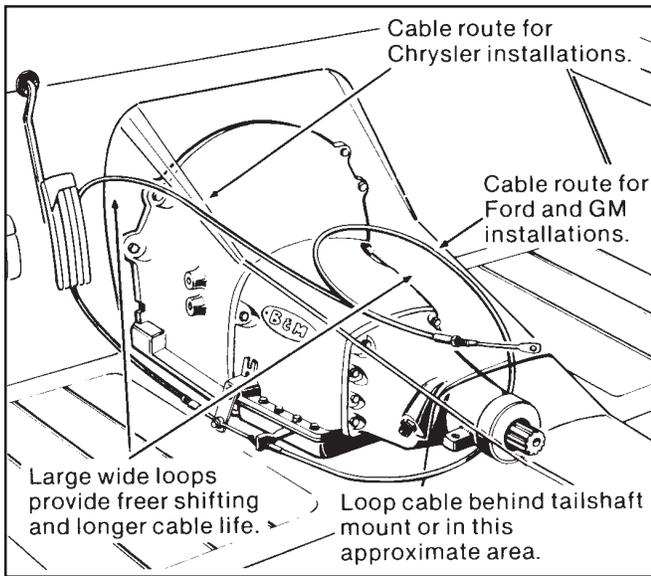


Figure #3

hole in each gear position. The shift cable is now correctly adjusted. Install the cotter key supplied with the shifter into the swivel and spread the key ends.

If you have a problem, **DO NOT FORCE THE SHIFTER**, this will damage the cable, the shifter or the transmission. Simply start at the beginning and carefully check all your steps.

Step 12. On **GM** vehicles the neutral safety switch may be located on the shifter (steering column or console), or it may be a mechanical interlock in the steering column that prevents the key from turning to the Start position unless the shifter is in the Park or Neutral position. Identify the type of neutral safety system you have. If the key will not turn to the Start position unless the stock shifter is in Park or Neutral, you have a mechanical interlock type, otherwise you have a neutral safety switch type. If you have a neutral safety switch, locate the switch and identify the neutral safety wires (engine will not

crank unless these wires are connected together). With either type, disconnect the battery ground cable to prevent accidental shorts. If you have a neutral safety switch, disconnect and extend both wires from the **GM** switch to the switch on the shifter. If you have a mechanical interlock cut the wire that goes from the Start position on the ignition switch to the solenoid on the starter. This wire is usually a 10 or 12 gauge purple wire. Run wires from both ends of the cut wire to the switch on the shifter. Put slip on terminals on the ends of the lengthened wire. Crimp the terminals onto the wires using a crimping tool or pliers. Connect the wires to the switch on the shifter. Tape the terminal connections and all other connections to prevent shorts. Reconnect the battery ground cable, disconnect the coil wire and set the parking brake. Check the switch operation by attempting to start the motor in each shifter position. The starter must crank only when the shifter is in the Park or Neutral position. Adjust the switch if required. Reconnect the coil wire.

FORD

Step 13. If you have not already done so, remove the nut and lockwasher holding the downshift linkage onto the downshift lever shaft. The downshift lever is the outer lever on **C-4**, **C-5**, **C-6** and **AOD** transmissions. Pull the lever off the shaft and allow the linkage to hang free. Remove and discard the stock shift linkage rods. Some **C-6** and all (late) **C-4** and **C-5** transmissions have a neutral safety/backup light switch on the transmission shift lever. If your transmission is so equipped, remove the two bolts holding the switch in place and slide it off the shift shaft. Disconnect the switch at the factory plug and discard it.

Step 14. Install the **B&M** selector lever (**See Figure #5** or **#6**). **Note:**The **B&M** lever must point downward for proper operation. If the stock shift lever on your transmission points down, you will have to remove the lower part of the stock arm by cutting it off to clear the **B&M** lever (**See Figure #5**). Install the **B&M** selector lever onto the shift shaft of the transmis-

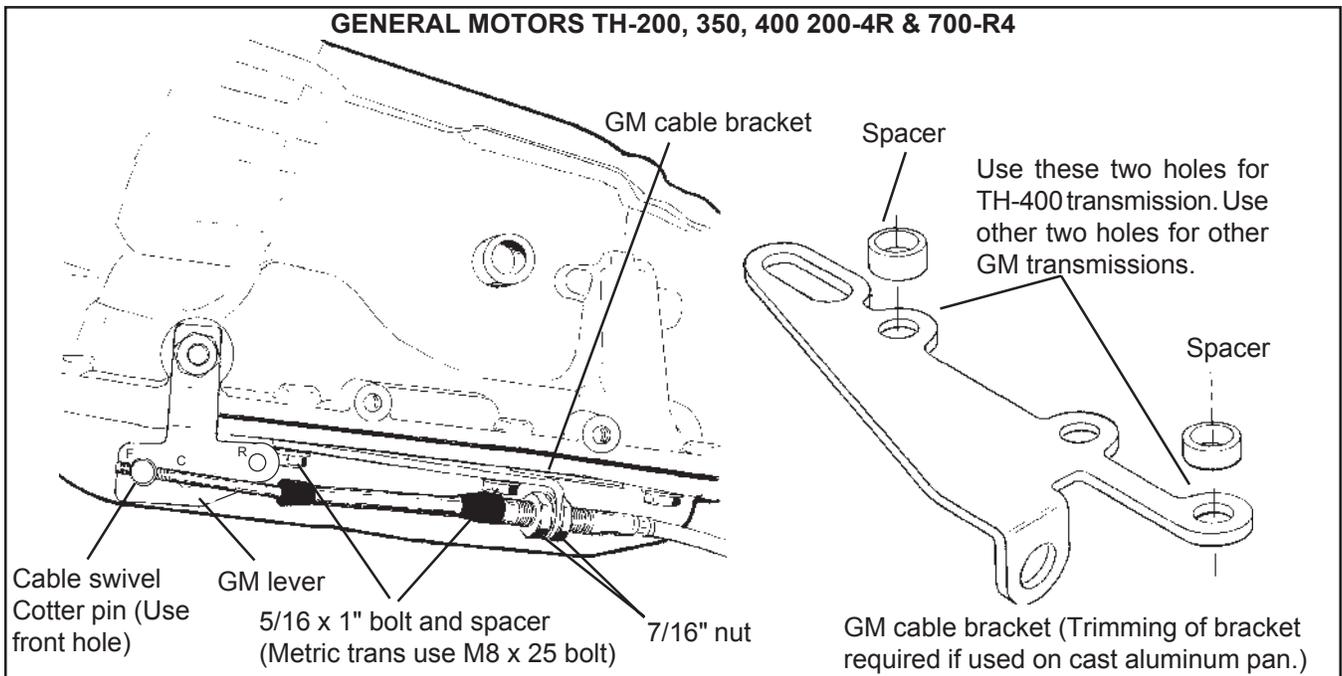


Figure #4

sion. Align the selector lever so when it points straight down it travels equal arcs in both directions from the center, then tighten the 1/4"-20 x 1 1/2" pinch bolt and nut. The lever should travel smoothly from front to back with a positive click in each gear position. Make sure the O-ring is in position on the downshift shaft and install the downshift lever in position on the shaft. Install the lockwasher and nut and tighten securely. The downshift lever must operate smoothly. Reconnect the downshift linkage.

Step 15. Cable bracket installation:

AOD: Instructions for the AOD are included with the optional installation kit, Part #40496.

C-4, C-5: Remove the two lower bolts from the rear servo cover. Install the cable bracket in position (**See Figure #5**). Install the two servo cover bolts as removed and tighten 12-13 lbs.ft. Do not overtighten as this can distort the servo cover.

C-6: Remove the two transmission oil pan bolts from the left rear corner of the oil pan. Install the cable bracket in position with two spacers between the pan and the bracket. (If your transmission is equipped with a cast aluminum oil pan, these spacers can be omitted.) Install the two 5/16"-18 x 1.00" bolts supplied and tighten 12-13 lbs.ft. Do not overtighten as this can damage the pan gasket.

Step 16. Route the shifter cable according to **Figure #3**. Avoid kinks and sharp bends and route the cable away from hot engine or exhaust parts.

Remove the two rubber boots, one large nut, and a large lockwasher from the threaded end of the shifter cable. Slide the end of the cable into the cable bracket, install the large nut and lockwasher loosely over the end of the cable. Install the two rubber boots onto the end of the cable. Install the swivel on the threaded end of the cable and position it in the center of the threaded portion.

Step 17. Above the transmission selector lever by hand to the full rear position (Low). Place the shifter lever to the Low gear so that the swivel will slide into the hole on the selector lever. Tighten the large nuts completely. Be sure that the swivel will slide freely in and out of the hole in the selector lever.

With the swivel in the selector lever, move the shifter to the Park position, as far forward as the shifter will go without forcing it. (The shifter has further travel that is used to reach the **GM** Park position but is not used on the **Ford** transmissions. Trying to force the cable will damage the cable.) The shift lever on the transmission should be all the way forward. Check to see that the swivel will slide freely in and out of the

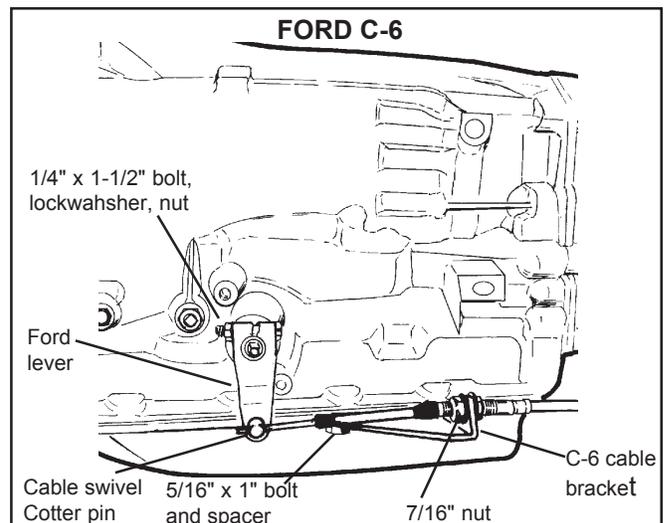


Figure #6

hole in the lever in this position. If it does not slip in freely, adjust the swivel slightly until it will slip into the hole in the lever in both the Low and Park positions. Operate the shifter through all the gear positions. Check to make sure the swivel will slide in and out of the selector lever hole in each gear position. Install the cotter key supplied with the shifter into the swivel and spread the key ends.

If you have a problem, **DO NOT FORCE THE SHIFTER**, this will damage the cable, the shifter or the transmission. Simply start at the beginning and carefully check all your steps.

IMPORTANT: Do not force the shifter to over-travel into the Park position. This will move the shifter into the **GM** Park position and will damage the cable or transmission.

Step 18. On Ford vehicles, the neutral safety/backup light switch is located on the transmission (or on the steering column on some early vehicles). If the vehicle has an AOD transmission the neutral safety/backup light switches on the **B&M Magnum Grip Pro Stick** shifter will NOT be used. The neutral safety/backup light switch on the AOD transmissions will continue to function normally.

On the C-4 and C-5 transmissions it is necessary to completely remove the stock neutral safety/backup light switch in order to install the **B&M** transmission shift lever. On C-4, C-5 and C-6 transmissions, it will be necessary to hook up the neutral safety/backup light switches on the **B&M Magnum Grip Pro Stick** shifter. Locate and identify the neutral safety (the engine will not crank unless these wires are connected together), and reverse light wires. Disconnect the battery ground cable before beginning to wire the neutral safety and reverse light switches. Reroute the wires to the **B&M Magnum Grip Pro Stick** shifter. Strip 1/4" insulation off the wires and install the supplied slip on terminals. Crimp the terminals onto the wires to the LOWER switch and the reverse light wires to the UPPER switch (**See Figure #1**). Tape the terminal connections to prevent shorts. Reconnect the battery ground cable, disconnect the coil wire and set the parking brake. Check the switch operation by attempting to start the motor in each shifter position. The starter must crank only when the shifter is in the Park or Neutral position. Check the backup light operation when the shifter is shifted to the Reverse position. Adjust the switches if required. Reconnect the coil wire.

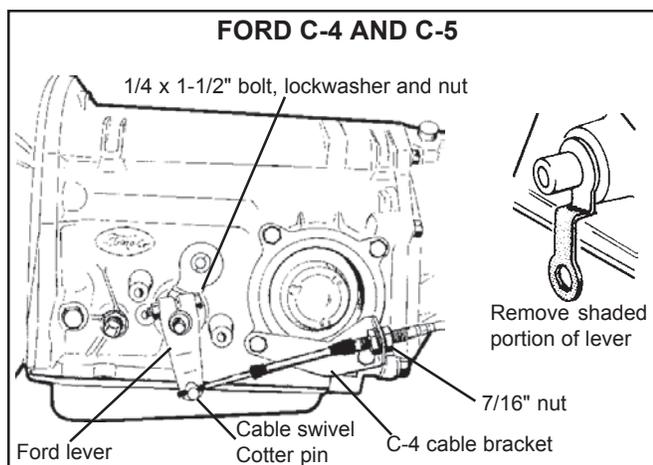


Figure #5

CHRYSLER

Step 19. If you have not already done so, loosen the pinch bolt on the throttle lever on the transmission. This is the lever on the small diameter shaft. Pry the lever off with a screwdriver and allow the linkage to hang free. Remove and discard the stock shift lever and tighten the pinch bolt securely (**See Figure #7**). Make sure the lever is not pushed down so far as to touch the transmission, it should travel smoothly from front to back with a positive click in each gear position. Install the stock throttle lever in position on the small diameter shaft as removed and tighten the pinch bolt securely. The throttle lever must operate smoothly.

Step 20. Remove the two transmission oil pan bolts directly below the shift lever. Install the cable bracket in position (**See Figure #7**) with two spacers between the pan and the bracket. (If your transmission is equipped with a cast aluminum oil pan these spacers can be omitted.) Install the two 5/16-18 x 1.00" pan bolts supplied and tighten to 12-13 lbs.ft. Do not over-tighten as this can damage the pan gasket.

Step 21. Route the shifter cable according to **Figure #3**. Avoid kinks and sharp bends and route the cable away from hot engine or exhaust parts.

Remove the two rubber boots, one large nut, and a large lockwasher from the threaded end of the shifter cable. Slide the end of the cable into the cable bracket, install the large nut and lockwasher loosely over the end of the cable. Install the two rubber boots onto the end of the cable. Install the swivel on the threaded end of the cable and position it in the center of the threaded portion.

Step 22. Move the transmission selector lever by hand to full forward position (Low). Place the shifter lever to the Low gear position (all the way back). Adjust the large nuts on the cable so that the swivel will slide into the hole on the selector lever. Tighten the large nuts completely. Be sure that the swivel will slide freely in and out of the hole in the selector lever.

With the swivel in the selector lever, move the shifter to the Park position, as far forward as the shifter will go without forcing it. (The shifter has further travel that is used to reaching the **GM** Park position but is not used on the **Chrysler** transmissions. Trying to force the shifter will damage the cable.) The shift lever on the transmission should be all the way back. Check to see that the swivel will slide freely in and out of the hole in the lever in this position. If it does not slip in freely, adjust the swivel slightly until it will slip into the hole in the lever in both the Low and Park positions. Operate the shifter through all the gear positions. Check to make sure the swivel will slide in and out of the selector lever hole in each gear position. Install the cotter key supplied with the shifter into the swivel and spread the key ends.

If you have a problem **DO NOT FORCE THE SHIFTER**, this will damage the cable, the shifter, or the transmission. Simply start at the beginning and carefully check all your steps.

Important: Do not force the shifter to over-travel into the Park position. This will move the shifter into the **GM** Park position and will damage the cable or transmission.

Step 23. Check the operation of throttle linkage again. The linkage must operate smoothly with no bind. All transmissions using automatic valve bodies must have the throttle linkage connected and operating or transmission damage will result.

Step 24. Neutral safety/backup light switch.

66-68: The neutral safety switch will continue to function normally. It will not be necessary to hook up the neutral safety

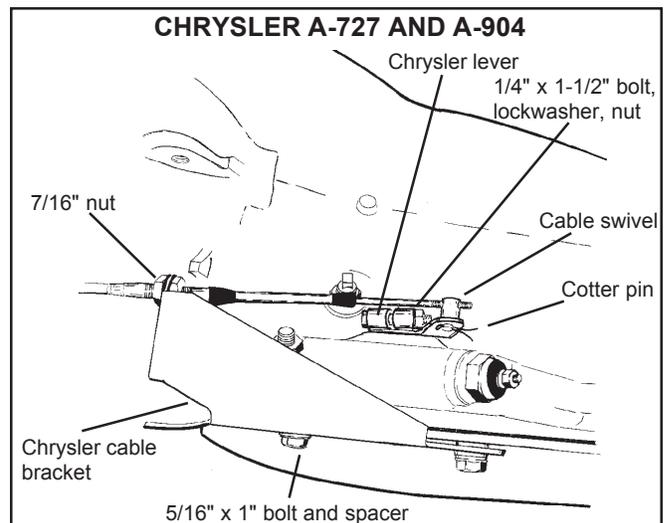


Figure #7

switch wires on the shifter. Disconnect the battery ground cable before wiring the backup light switch. Locate the original backup light switch on the steering column or console shifter. Run these wires to the top switch on the **B&M Magnum Grip Pro Stick**. Reconnect the ground wire and check the light for proper operation. Adjust the switches on the shifter if required. 69 and Later: The neutral safety/backup switch is located on the transmission and will continue to function normally. It will not be necessary to connect any wires to the switches on the shifter.

POWERGLIDE

Step 25. Disconnect the throttle to transmission linkage if any and discard. The Powerglide shift lever supplied with this shifter has no provision for a throttle linkage. If a throttle linkage is required, use **B&M** lever #70461.

Step 26. Drain the transmission oil pan. **Caution:** Be sure the transmission is cool before attempting to drain the oil. Place the drain pan under the transmission. Remove the drain plug if so equipped. If your pan does not have a drain plug remove the oil pan bolts one at a time working towards the front. As you loosen the last bolts the oil pan will tilt down and allow the oil to drain. **Note:** If your oil pan sticks to the gasket pry it down with a screwdriver before loosening the last two bolts to break it free. Remove the oil pan and set it aside.

Step 27. Remove the manual valve guide plate by removing two bolts (**See Figure #8**). Unhook and remove the detent roller spring. Allow the detent roller to pivot out of the way. Note how the pin on the manual valve selector engages the groove in the manual valve.

Step 28. If your transmission has a throttle valve lever on the outside of the shift lever loosen the inner pinch bolt on the throttle level. Slide the throttle lever and shaft out of the transmission. Remove the inner throttle valve lever. Discard these parts.

Step 29. Loosen the pinch bolt on the selector lever. This can be either an Allen head bolt of a 12 point bolt head. Do not remove the pinch bolt. Slightly pry the manual valve lever and slide the selector shaft from the transmission. Discard the selector shaft.

Step 30. This transmission includes the **B&M Powerglide Pro-lever** shift level which is a two piece lever with separate lever

and shaft. Install the **B&M** selector shaft into the transmission with the lever pointing down. Hold the stock selector lever in position in the case, engage the pin on the selector lever with the manual valve and rotate the **B&M** shaft until the flat on the shaft engages the serrations on the lever. Push the **B&M** lever firmly into the transmission until the lever stops on the shoulder of the shaft. Tighten the pinch bolt securely.

Step 31. Install the manual valve guide plate in place. (Make sure that pin on the selector lever is engaged in the groove in the manual valve.) Install the two bolts and tighten to 15 lbs.ft. Install the detent roller spring. Hook the spring to the detent roller and tab. The selector lever must travel freely and smoothly from front to back with a positive click in each gear position.

Step 32. Clean the oil pan and scrape the old gasket off of the pan and case. (**Note:** If your pan does not have a drain plug, you may wish to install a **B&M Drain Plug Kit #80250**, at this time.) The old gasket can cause leaks. Install the oil pan with the new gasket. Install the pan bolts except for the two center bolts on the left side of the pan. Tighten the pan bolts to 8 lbs.ft. Do not overtighten as this can damage the pan gasket.

Step 33. Install the cable bracket in position with the two remaining pan bolts (**See Figure #8**). Install the **B&M** lever onto the shaft with the lever pointing down. If your cable comes from the front (usually a rear engine car), the lever is installed pointing upwards. You will have to make your own cable bracket for this installation.

Step 34. Route the shifter cable according to **Figure #3**. Avoid kinks and sharp bends and route the cable away from hot engine or exhaust parts.

Remove the two rubber boots, one large nut, and a large lockwasher from the threaded end of the shifter cable. Slide the end of the cable into the cable bracket, install the large nut and lockwasher loosely over the end of the cable. Install the two rubber boots onto the end of the cable. Install the swivel on the threaded end of the cable and position it in the center of the threaded portion.

Step 35. Move the transmission selector lever by hand to full rear position (Low). Operate the shifter lever to the Low gear position (all the way back). Adjust the large nuts on the cable so that the swivel will slide into the hole in the selector lever that is labeled "**H**" (**See Figure #9**). Tighten the large nuts completely. Be sure that the swivel will slide freely in and out of the hole in the selector lever. **Note:** The shifter will not operate correctly unless the hole marked "**H**" in the shift lever

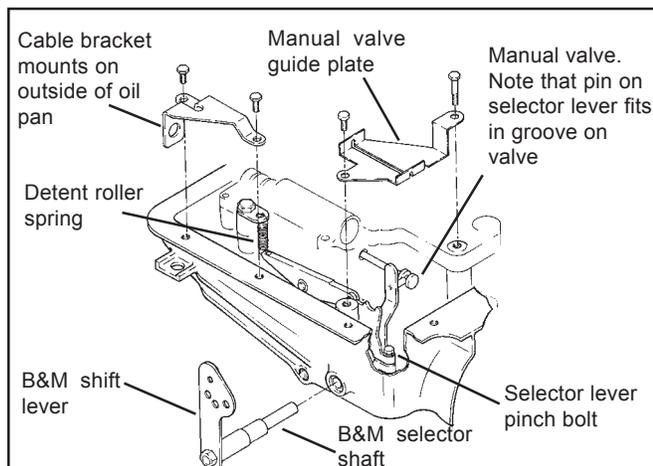


Figure #8

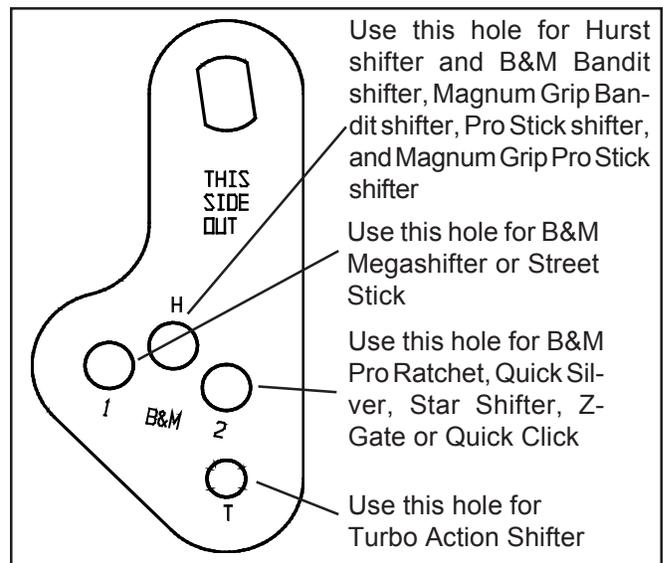


Figure #9

Use this hole for Hurst shifter and B&M Bandit shifter, Magnum Grip Bandit shifter, Pro Stick shifter, and Magnum Grip Pro Stick shifter

Use this hole for B&M Megashifter or Street Stick

Use this hole for B&M Pro Ratchet, Quick Silver, Star Shifter, Z-Gate or Quick Click

Use this hole for Turbo Action Shifter

is used.

Leave the swivel out of the hole and move the selector lever to the Park position (all the way forward). Reinsert the swivel into the hole marked "**H**" in the selector lever. Check to see that the swivel will slide freely in and out of the hole marked "**H**" in the selector lever in this position. If it does not slip in freely, adjust the swivel slightly until it will slip into the hole marked "**H**" in the lever.

Move the shifter back to the Low gear position and check that the swivel will still slide easily in and out of the hole marked "**H**" in the selector lever. (If you do not use the hole marked "**H**" in the lever, it will be impossible to correctly adjust the cable.) Operate the shifter through all the gear positions. Check to make sure the swivel will slide in and out of the hole marked "**H**" selector lever hole in each gear position. The shift cable is now correctly adjusted. Install the cotter key supplied with the shifter into the swivel and spread the key ends.

If you have a problem, **DO NOT FORCE THE SHIFTER**, this will damage the cable, the shifter, or the transmission. Simply start at the beginning and carefully check all your steps.

Step 36. Disconnect the battery ground cable to prevent accidental shorts. Identify the neutral safety wires (engine will not crank unless these wires are connected together). Extend the wires to the shifter. Strip 1/4" insulation off the wires and install slip-on terminals supplied in kit. Crimp the terminals onto the wires using a crimping tool or pliers. Connect the neutral safety wires to the LOWER switch and the backup light wires to the UPPER switch (**See Figure #1**). Tape the terminal connections and all other connections to prevent shorts. Reconnect the battery ground cable, disconnect the coil wire and set the parking brake. Check the switch operation by attempting to start the motor in each shifter position. The starter must crank only when the shifter is in the Park or Neutral position. Check the backup light operation when the shifter is shifted to the Reverse position. Adjust the switches if required. Reconnect the coil wire.

MOUNTING BRACKET AND ALUMINUM HOUSING

If the quick release mounting bracket is being used, it is screwed to the floor with four mounting screws. One spacer

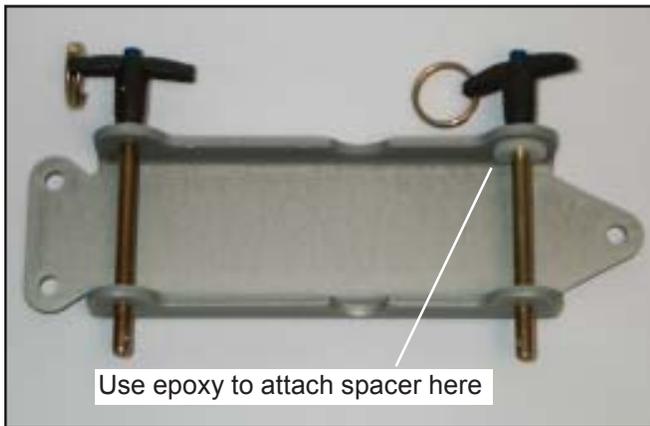


Figure #10

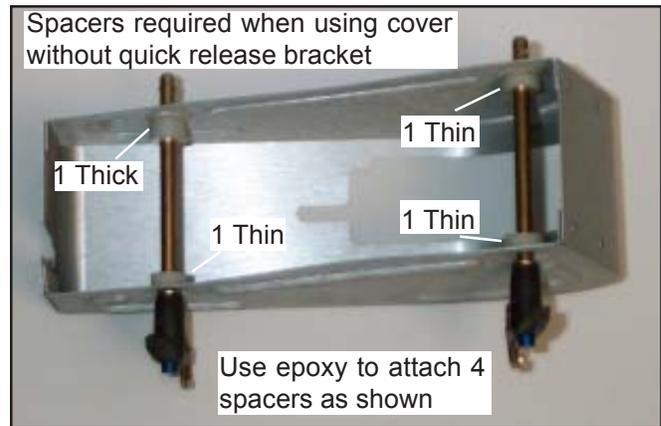


Figure #11

OPERATION

How to shift Magnum Grip Pro Stick Shifter

Note: The Reverse Lockout Lever (See Figure #1) described in the following instructions ONLY needs to be operated when shifting from Neutral to Reverse

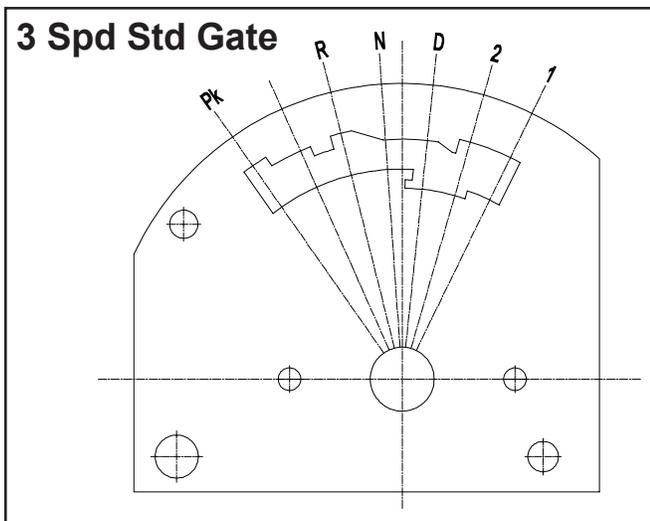


Figure #12

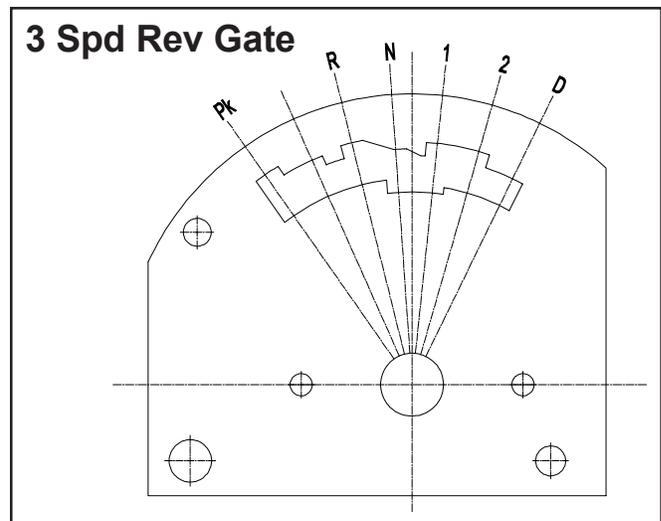


Figure #13

washer is required between the mounting bracket and the shifter in the location shown in **Figure #10**. The shifter is held onto the bracket with the two quick release pins.

The aluminum housing can be used with or without the mounting bracket. If it is used with the mounting bracket, no spacers are required. If it is used without the mounting bracket, four spacer washers are required between the shifter and the cover as shown in **Figure #11**. The two quick release pins are used to hold the cover to the shifter or the shifter and mounting bracket. A sheet of shift pattern decals is included with the cover. Select the one that fits your shift pattern and press the decal on the top of the housing to line up with the stick.

THREE SPEED FORWARD PATTERN (SEE FIGURE #12)

1. **First Gear:** (Starting with the shifter in Park) Pull the trigger lightly until it stops, then pull the stick all the way back releasing the trigger at mid travel.
2. **Second Gear:** Push the stick forward to stop.
3. **Third Gear:** Pull and hold the trigger firmly, then push the stick forward to stop. Release the trigger and remove the pressure from the stick allowing the spring loaded selector pin to

raise to the top of the gate opening.

4. **Neutral:** Push the stick forward to stop.
5. **Reverse:** Push the Reverse Lockout lever forward, then push the stick forward to stop.
6. **Park:** Pull and hold the trigger lightly until it stops, then while holding pressure on the trigger push the stick forward until it stops.

THREE SPEED REVERSE PATTERN (SEE FIGURE #13)

1. **First Gear:** (Starting with the shifter in Park) Pull the trigger lightly until it stops, then while holding the pressure on the trigger pull the stick rearward slowly until the stick stops at the "1" position.
2. **Second Gear:** Pull the stick rearward against the stop.
3. **Third Gear:** Pull the trigger lightly until it stops, then while holding pressure on the trigger pull the stick rearward until it stops.
4. **Neutral:** From Third, Second, or First. Pull the trigger lightly until it stops, then while holding pressure on the trigger push the stick forward until it stops.
5. **Reverse:** Push the Reverse Lockout lever forward, then

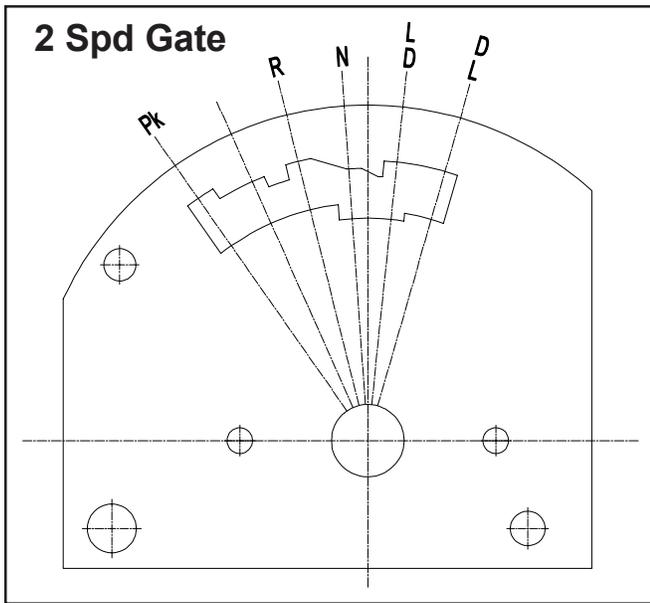


Figure #14

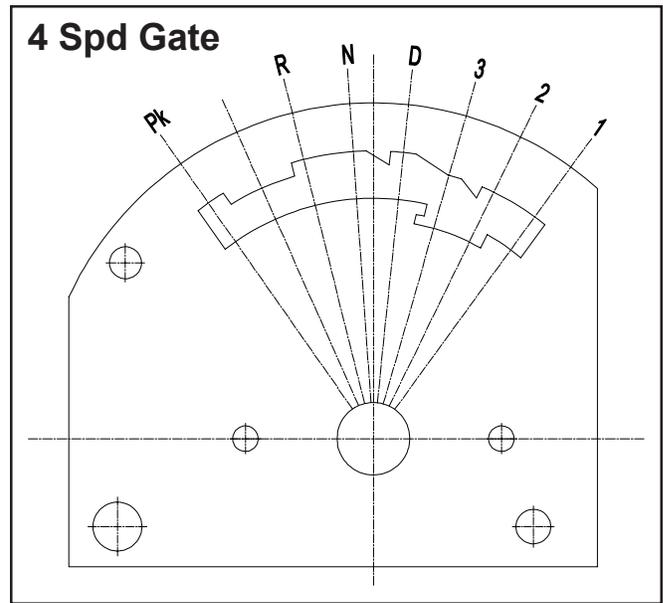


Figure #15

push the stick forward until it stops.

6. Park: Pull the trigger lightly until it stops, then while holding pressure on the trigger push the stick forward until it stops.

TWO SPEED FORWARD PATTERN (SEE FIGURE #14)

- 1. Low:** (Starting with the shifter in Park) Pull the trigger lightly until it stops, then while holding pressure on the trigger pull the stick all the way back releasing the trigger at mid travel.
- 2. Drive:** Push the stick forward until it stops.
- 3. Neutral:** Pull the trigger firmly until it stops, then push the stick forward until it stops. Release the trigger.
- 4. Reverse:** Push the Reverse Lockout lever forward, then push the stick forward until it stops.
- 5. Park:** Pull the trigger lightly until it stops, then while holding pressure on the trigger push the stick forward until it stops.

TWO SPEED REVERSE PATTERN (SEE FIGURE #14)

- 1. Low:** (Starting with the shifter in Park) Pull the trigger lightly until it stops, then while holding pressure on the trigger pull the stick rearward slowly until it stops at the "L" position.
- 2. Drive:** Pull the stick rearward until it stops.
- 3. Neutral:** Pull the trigger lightly until it stops, then while holding pressure on the trigger push the trigger forward until it stops at the "N" position. Release the trigger.
- 4. Reverse:** Push the Reverse Lockout lever forward, then push the stick forward until it stops.
- 5. Park:** Pull the trigger lightly until it stops, then while holding pressure on the trigger push the stick forward until it stops.

**FOUR SPEED FORWARD PATTERN (SEE FIGURE #15)
(Reverse pattern not available.)**

- 1. First Gear:** (Starting with the shifter in Park) Pull the trigger lightly until it stops, then pull the stick all the way back releasing the trigger at mid travel.
- 2. Second Gear:** Push the stick forward until it stops.
- 3. Third Gear:** Pull and hold the trigger firmly, then push the stick forward until it stops. Release the trigger and remove pressure from the stick allowing the spring loaded selector pin to raise to the top of the gate opening.
- 4. Fourth Gear:** Push the stick forward until it stops.
- 5. Neutral:** Pull the trigger and push the stick forward until it stops. Release the trigger.
- 6. Reverse:** Push the Reverse Lockout lever forward, then push the stick forward until it stops.
- 7. Park:** Pull the trigger lightly until it stops, then while holding pressure on the trigger, push the stick forward until it stops.

An extender handle for the reverse lockout lever is now included with the B&M Magnum Grip Pro Stick Shifter. This handle allows easier access to the reverse lockout, particularly in a race car while wearing belts and gloves. If you wish to use this extender handle, insert the handle from the left side of the shifter through the center of the "R" of the reverse lockout lever and secure it with the screw provided. Use Loctite on the threads.

Warning

Periodic inspection and maintenance of your shifter is recommended to ensure that the mechanism is well lubricated, free from dirt or rust and that the cable is properly adjusted. Lack of maintenance could result in a failure including a failure of the reverse lockout safety feature.