T-400 E-QUICK™
BILLET ALUMINUM VALVE BODY
Part # 403070 and 403060 (Transbrake Version)
Reverse Manual: P-R-N-1-2-3

ATI’s Billet Aluminum E-Quick Valve Body operates as a normal reverse manual or Transbrake unit for driving in the pits, doing a burn-out or going down the track if you prefer to shift manually or have issues with shifting table or wiring.

*** Operating as a Reverse Manual Valve Body ***

BURNOUT
• Manually place shifter in desired forward gear and conduct burnout.
• Drivers MUST shift back to N to clear out the lines BEFORE shifting to low gear to start the run.
  - This step is not required if drivers use reverse to back up after burnout.

ARMING
• Drivers must “arm” the system by a switch or other type of trigger method.
• This should be done after the burnout and while the transmission is in a NEUTRAL position with the shifter in “N”.

DRIVERS WILL LAUNCH IN LOW GEAR
• Manually place shifter in low gear.
• No further manual action required.

SHIFTING TO SECOND (ELECTRONIC)
• Cut power to Band Apply solenoid
  Note! You MUST cut power 500 RPM prior to energizing the 2ND gear solenoid!
• Supply power to 2ND gear solenoid.

SHIFTING TO THIRD (ELECTRONIC)
• Leave power supplied to 2ND gear solenoid.
• Supply power to 3RD gear solenoid.

NEUTRAL AT END OF PASS
• Move shifter one notch to the N position from first gear position for a clean neutral.
• Allow the engine to return to idle, do not shut off until at a very slow speed if you are going to shut it off at all. When you shut off the engine, you lose all oil lube inside of the transmission.
• Disarm or turn off supplied power to the system.

REVERSE
• Manually shift to reverse as needed after the system has been disarmed.
*** Operating as a Reverse Pattern Transbrake ***

OPERATION IS THE SAME AS THE NON-TRANSBRAKE VALVE BODY EXCEPT FOR A SAFETY REVERSE WITH THE TRANSBRAKE OPTION VALVE BODY

**BURNOUT**
- Manually place shifter in desired forward gear and conduct burnout.
- Drivers MUST shift back to N to clear out the lines BEFORE shifting to low gear to start the run.
  - *This step is not required if drivers use reverse to back up after burnout.*

**ARMING**
- Drivers must “arm” the system by a switch or other type of trigger method.
- This should be done after the burnout and while the transmission is in a NEUTRAL position with the shifter in “N”.

**DRIVERS WILL LAUNCH IN LOW GEAR**
- Manually place shifter in low gear.
- No further manual action required.
- Transbrake can be used as normal.

**SHIFTING TO SECOND (ELECTRONIC)**
- Cut power to Band Apply solenoid
  - *Note! You MUST cut power 500 RPM prior to energizing the 2ND gear solenoid!*
- Supply power to 2ND gear solenoid.

**SHIFTING TO THIRD (ELECTRONIC)**
- Leave power supplied to 2ND gear solenoid.
- Supply power to 3RD gear solenoid.

**NEUTRAL AT END OF PASS**
- Move shifter one notch to the N position from first gear position for a clean neutral.
- Allow the engine to return to idle, do not shut off until at a very slow speed if you are going to shut it off at all. When you shut off the engine, you lose all oil lube inside of the transmission.
- Disarm or turn off supplied power to the system.

**REVERSE**
- Manually shift to reverse as needed after the system has been disarmed.
- Drivers must press transbrake button to back up.

![Warning]

Both valve body versions (with and without transbrake) may be shifted manually, however, the band will not apply and there is no clean neutral position.

**Table 1: SOLENOID OPERATION FOR T400 ELECTRONIC SHIFT VALVE BODY**

<table>
<thead>
<tr>
<th>GEAR</th>
<th>PARK</th>
<th>REVERSE</th>
<th>NEUTRAL</th>
<th>FIRST</th>
<th>SECOND</th>
<th>THIRD</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAND APPLY</td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>ON</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
</tr>
<tr>
<td>SECOND GEAR</td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>ON</strong></td>
<td><strong>OFF</strong></td>
</tr>
<tr>
<td>THIRD GEAR</td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>OFF</strong></td>
<td><strong>ON</strong></td>
</tr>
</tbody>
</table>

*Note: E-Quick solenoids draw approximately one (1) amp each.*

*Note! Band apply solenoid MUST cut off 500 RPM before second gear solenoid comes on!*
An ATI transmission equipped with the E-Quick valve body will have a ‘three wire pass through connector’ coming through the case. The case should be stamped confirming each colored wire’s intended use.

The wires and uses are as follows:

RED – BND – low band release
WHITE – 2ND – 1-2 SHIFT
GREEN – 3RD – 2-3 SHIFT

Please contact ATI with any questions, comments or concerns