**Allison™ 1000/2000 Shift System**

**Assembly Part Number**

<table>
<thead>
<tr>
<th>BASIC NO.</th>
<th>ASSEMBLY CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-91035</td>
<td>X X X X X</td>
</tr>
</tbody>
</table>

**Chart #1** Control Mount Options

**Chart #2** Cable Hanger Bracket Position Options

**Chart #3** Position Strip Options

**Chart #4** Park Options

**Cable and Connection Kit**

**CABLE 100-04333-LGTH**
Standard push-pull cable.
3-inch travel. Clamp style ends.
All steel parts are plated or stainless steel.

**TRANSMISSION KIT 000-59534-0000**
One kit for park and non-park option.
All parts are plated steel.
Includes all attachment hardware.
Lever holes identified for park option.

*Other Configurations may be available. Contact Orschen.*

™ Allison is a registered trademark of General Motors.
Transmission Connection Kits

Transmission kits come complete with shift arm, transmission mounting bracket, cable hanger and required hardware. Connection kits are designed to fit any of the five most popular entry positions to the transmission shift arm. Refer to the following drawings to find the cable entry that best fits your vehicle requirements and shifter control positions (push to reverse, pull to reverse), then assemble the kit to match the installation required. Shown below are configurations that can be made from the Universal Kit. (Universal Kit #59005 includes all parts to assemble any 59004 and 59006 kit configuration.)

**TRANSMISSION CONNECTION KITS**

**UNASSEMBLED UNIVERSAL KIT OIL PAN MOUNT**
- 59004: 4 Series
- 59006: 6 Series
- 59005: 4 and 6 Series

Kits to be assembled in field to fit installation required.

**MACHINE PAD MOUNT**
- 59369-1: 4 Series
- 59369-2: 6 Series

Mount to machine pad above the transmission shift arm. They do not mount to oil pan bolts as shown in diagrams above.

* HT Series, MT 654 with 4.5" oil pan. For refuse and HD applications.

**MOUNTING FLANGE**
- 59002
Made of prefabricated steel with a matte black epoxy finish. Simplifies a top mount installation and is perfect for vehicle conversions. Kit is complete with control mounting hardware. Use with cable hanger bracket in any position.

**SWITCH AND PIN SET KIT**
- 50036-1

**SWITCH SET**
- 50036-2

**PIN SET**
- 50036-3

**FINGER RELEASE/T-HANDLE KIT**
- 59543

**MOUNTING WEDGE**
- 59009
An injection molded wedge with a textured black finish. Raises the shifter to a 17° angle from desired mounting surface. Kit is complete with control mounting hardware. Use with cable hanger bracket in any position except #1 or #2.

**PUSH-PULL SHIFT CABLES**
(Used with Controls and Kits)
- 4 Series: 1/4 - 28 thread, base part number: 100-4333 length
  - (recommended)
- 6 Series: 5/16 - 24 thread, base part number: 100-6333 length

**MOUNTING TOWER**
- 59000 (13")
- 59035 (9")
A prefabricated tower with a matte black epoxy finish. Features access panels on both sides for easy installation and adjustment. A rubber floor gasket is included with tower. Kit is complete with control mounting hardware. For use with cable hanger positions #3, 4, 7, and 8 ONLY!
The T-Handle and Push Button shifters are time proven designs for rugged operation in trucks and buses. They have flexible options available and the T-Handle can be custom assembled by many of our F.A.S.T. distributors.

SPECIFICATIONS

- Lamp Illumination: 14 volts, orange lens
- Switches: ball type, see options for Neutral and/or Reverse
- Travel: 3 inches
- Cable Connection: 4 series (1/4-28) or 6 series (5/16-24)
- Cable Entry: Push or pull to reverse, 4 hanger positions
- "2nd Neutral" type available for Allison Transmissions

<table>
<thead>
<tr>
<th>Transmission Models</th>
<th>BASIC NUMBER</th>
<th>T-Handle</th>
<th>Push Button</th>
<th>Shift Inhibitor</th>
<th>2nd Neutral</th>
<th>Position Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALLISON</td>
<td></td>
<td>55051</td>
<td>55751</td>
<td>56051</td>
<td></td>
<td>R,N,D,3,2,1</td>
</tr>
<tr>
<td>AT 540, AT 545, AT 543</td>
<td>55052</td>
<td>55752</td>
<td>56052</td>
<td></td>
<td>R,N,2-5,2-4,2,1</td>
<td></td>
</tr>
<tr>
<td>MT 643, MT 647, MT 644 (MT 640)</td>
<td>55053</td>
<td>55753</td>
<td>56053</td>
<td></td>
<td>R,N,1-5,1-4,1-3,1-2,1</td>
<td></td>
</tr>
<tr>
<td>MT 653 DR</td>
<td></td>
<td>55054</td>
<td>55754</td>
<td></td>
<td>R,N,D,2,1</td>
<td></td>
</tr>
<tr>
<td>MT 654 CR, MT 750 CRD</td>
<td>55055</td>
<td>55755</td>
<td>56055</td>
<td></td>
<td>R,N,2-5,2-4,2,3,2,1</td>
<td></td>
</tr>
<tr>
<td>CL (B) T 750</td>
<td></td>
<td>55056</td>
<td>55756</td>
<td>56056</td>
<td>R,N,D,3,2,1</td>
<td></td>
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<tr>
<td>AT 542N, AT 545N, AT 1542N, AT 1545N</td>
<td>55934 MECHANICAL USES CABLE</td>
<td>P-B,R,N,D,D3,D1</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>AT 542N, AT 545N, AT 1542N, AT 1545N</td>
<td>55946 ELECTRICAL</td>
<td>P-B,R,N,D,D3,D1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Items listed within yellow field are Basic Part Numbers. Refer to these when ordering a shifter.
How to Order the Shifter

Ordering the exact shifter that meets your requirements is not difficult. Simply follow the instructions below to create your own part number. (Example: you are ordering basic part #55051 to fit your Allison transmission #MT 643. You desire the following configuration: Right-hand mount/reverse to front (Chart 1, Option #2); push to reverse/vertical cable hanger (Chart 2, Option #7); 4 Series Cable (Chart 3, Option #4); No Switches (Chart 4, Option #0). Your part number would be 55051-2740.)

1. Match your automatic transmission model to the basic part number. This is your BASIC NUMBER.

2. Refer to Charts 1 through 4 on this page for assembly configuration in order to meet vehicle and system requirements. (Not applicable to Shift Inhibitor and 2nd Neutral P-B Shifter.)

3. Follow the form below and enter the option number desired from each chart in the appropriate order.

**EXAMPLE**

<table>
<thead>
<tr>
<th>BASIC NUMBER</th>
<th>OPTION #1 from chart 1</th>
<th>OPTION #2 from chart 2</th>
<th>OPTION #3 from chart 3</th>
<th>OPTION #4 from chart 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>55051</td>
<td>2</td>
<td>7</td>
<td>4</td>
<td>0</td>
</tr>
</tbody>
</table>

**CONTROL MOUNT/REVERSE POSITION OPTIONS**

- **Vehicle Front**
  - Reverse to Front
- **Vehicle Front**
  - Reverse to Rear

**CABLE SERIES OPTIONS**

- **OPTION #4**
  - 4 Series
  - 1/4 - 28 Thread (.25 - 28)
- **OPTION #6**
  - 6 Series
  - 5/16 - 24 Thread (.31 - 24)

**ELECTRIC SWITCH OPTIONS**

- **OPTION #0**
  - No Switches
- **OPTION #1**
  - Reverse Switch
- **OPTION #2**
  - Neutral Switch
- **OPTION #3**
  - Reverse and Neutral Switch

**CABLE HANGER BRACKET POSITION OPTIONS**

- **REVERSE TO FRONT - USE WITH CONTROL MOUNT OPTIONS 1 & 2**
  - **OPTION #1**
    - Cable PULLS Transmission
    - Arm into REVERSE
  - **OPTION #5**
    - Cable PUSHES Transmission
    - Arm into REVERSE
  - **OPTION #3**
    - Cable PULLS Transmission
    - Arm into REVERSE
  - **OPTION #7**
    - Cable PUSHES Transmission
    - Arm into REVERSE

- **REVERSE TO REAR - USE WITH CONTROL MOUNT OPTIONS 3 & 4**
  - **OPTION #2**
    - Cable PUSHES Transmission
    - Arm into REVERSE
  - **OPTION #6**
    - Cable PULLS Transmission
    - Arm into REVERSE
  - **OPTION #4**
    - Cable PUSHES Transmission
    - Arm into REVERSE
  - **OPTION #8**
    - Cable PULLS Transmission
    - Arm into REVERSE
**Allison™ 1000/2000 NG Shift Systems**

**Assembly Part Number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NG 1 X X X X X</td>
<td>Right-Hand Mount</td>
</tr>
</tbody>
</table>

**Cable Assembly 100-04333-LGTH**

Standard Push-Pull Cable, 3” Travel, Clamp Style Ends

**Chart #1** Control Mount Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIGHT-HAND MOUNT</td>
<td></td>
</tr>
</tbody>
</table>

**Chart #2** Knob & Trim Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Side Push Button Knob 90°</td>
</tr>
<tr>
<td>2</td>
<td>Side Push Button Knob 45°</td>
</tr>
<tr>
<td>3</td>
<td>Cobra Knob</td>
</tr>
</tbody>
</table>

**Chart #3** Lens/Position Strip Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lens</td>
</tr>
<tr>
<td>2</td>
<td>Lens</td>
</tr>
<tr>
<td>3</td>
<td>Lens</td>
</tr>
</tbody>
</table>

**Chart #4** Hanger Bracket Position Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90° Hanger</td>
</tr>
<tr>
<td>2</td>
<td>60° Hanger</td>
</tr>
<tr>
<td>3</td>
<td>30° Hanger</td>
</tr>
<tr>
<td>4</td>
<td>0° Hanger</td>
</tr>
</tbody>
</table>

**Chart #5** Lighting Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Single Wire Chassis Ground</td>
</tr>
<tr>
<td>2</td>
<td>Dual Wire Ground Wire</td>
</tr>
<tr>
<td>3</td>
<td>Dual Wire Ground Wire 2-Way Weather Pak Sealed Female Connector Packard P/N 12010973</td>
</tr>
<tr>
<td>4</td>
<td>Dual Wire Ground Wire 2-Way Weather Pak Sealed Male Connector Packard P/N 12015792</td>
</tr>
</tbody>
</table>

**Transmission Kit Options** Push Into Reverse Configuration Only

- **59561**
- **59571**
- **59572**
- **59581**

*Do not use on pre-2007 models using rev/net switch options.

Other configurations may be available. Contact Orscheln Products LLC for more details.

Allison is a registered trademark of General Motors.
The modulator cable control is designed to send the engine throttle rate (on a mechanically governed engine) to the hydraulic control valve in the transmission. It will fit Allison™ Transmission models AT500, MT600, HT700, V730, CLT650, and CLBT750 series.

SPECIFICATIONS:
- Control Cable is polymer lined rated at 300° F (149° C)
- 4 inch bend radii minimum
- Built-in spring returns to idle
- Pull function recommended, but push also available
- Can be locally assembled via F.A.S.T. cable assembly distributors.

### Modulator Slip Link Kit (shown at right)

The Slip-Link kit includes the necessary hardware for complete installation of the kit to the engine fuel control lever. Kit includes a slotted slip-link, link pin, flatwasher, cotter pin and locknut. To order, see chart below.

<table>
<thead>
<tr>
<th>Polymer Link Part No.</th>
<th>Thread Size</th>
<th>For Use with Modulator Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>59049-1</td>
<td>(3 Series) 10-32UNF-2A THD</td>
<td>2124, 2179, 2180</td>
</tr>
<tr>
<td>59049-2</td>
<td>(4 Series) 2528UNF-2ATHD</td>
<td>2220, 2225, 2230, 2235</td>
</tr>
</tbody>
</table>

### Pull Type

<table>
<thead>
<tr>
<th>Description</th>
<th>Transmssion</th>
</tr>
</thead>
<tbody>
<tr>
<td>2124 Clamp</td>
<td>FMX</td>
</tr>
<tr>
<td>2130 Bulkhead</td>
<td>Allison</td>
</tr>
<tr>
<td>2179 Clamp</td>
<td>C-6</td>
</tr>
<tr>
<td>2180 Bulkhead</td>
<td>C-6</td>
</tr>
<tr>
<td>2182 Bulkhead</td>
<td>Hydramatic (350/400)</td>
</tr>
<tr>
<td>2183 Clamp</td>
<td>Hydramatic (350/400)</td>
</tr>
<tr>
<td>2220 Bulkhead</td>
<td>Allison</td>
</tr>
<tr>
<td>2230 Clamp</td>
<td>Allison</td>
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</table>

### Push Type

<table>
<thead>
<tr>
<th>Description</th>
<th>Transmssion</th>
</tr>
</thead>
<tbody>
<tr>
<td>2225 Bulkhead</td>
<td>Allison</td>
</tr>
<tr>
<td>2235 Clamp</td>
<td>Allison</td>
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</table>