Congratulations! You have just purchased a McLeod Bellhousing Set. This McLeod Bellhousing Set can be installed by anyone with minimal mechanical experience. However, it is important to closely follow the instructions.

We recommend that you read through the instructions completely before beginning the installation to become familiar with the installation procedure.

This Bell Housing Bolt Kit fits the following part numbers: 8624, 8625, 8629, 8630, 8635, 8640, 8650, 8655 & 8660.

**INTRODUCTION**

McLeod's Bell Housing kits are designed to work with specific engine/transmission combinations. Please see the Application Guide at the end of these instructions to determine the proper Bell Housing for your specific engine/transmission combination. If you have any questions about your specific engine/transmission combination, please contact McLeod at (714) 630-2764 before attempting installation of Bell Housing kit.

These instructions have been written assuming a clean install. Meaning that the old transmission/bellhousing has been removed. While you have the transmission and engine apart, this is a great time to replace your worn clutch with a quality McLeod product.

**INSTALLATION #8650 BELL HOUSING KIT**

1. Check the parts list to make sure that you have all parts.
2. Remove flywheel and determine what size flywheel is mounted on your engine.
   - 153 tooth flywheel outer diameter dimension (to outside of teeth) is 12.835".
   - 168 tooth flywheel outer diameter dimension (to outside of teeth) is 14.096".
   Remove knockout on motor plate if you have determined that you have a 153 tooth flywheel.
   (See figure #2)
   Take care not to bend motor plate when removing knockout. (Put motor plate in vise and use a hammer to knock out plate or vise grips to bend plate out.)
   Note: All 153 tooth "stock" cast iron flywheels must have 1/8" machined off the backside of flywheel for proper clearance.
3. Bolt motor plate to engine using “A” & “B” location holes as noted in Figure #1 with the appropriate bolts as described in the Complete Parts list for #8650 Bellhousing kit. Torque bolts to 30 ft/lbs.
4. Reinstall flywheel using existing bolts applying loctite torque bolts to 60 ft/lbs.
5. Reinstall clutch using existing bolts applying loctite, torque bolts to 35 ft/lbs.
6. Install bellhousing using “C” & “D” location holes as noted in Figure #1 with the appropriate bolts as described in Complete Parts List.
7. Reinstall clutch fork assembly.

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INSTALLATION
#8630 & 8640 BELL HOUSING KIT

1. Check the parts list to make sure that you have all parts.
2. Remove flywheel and determine what size flywheel is mounted on your engine.
   - 153 tooth flywheel outer diameter dimension (to outside of teeth) is 12.835".
   - 168 tooth flywheel outer diameter dimension (to outside of teeth) is 14.096".
   Remove knockout on motor plate if you have determined that you have a 153 tooth flywheel.
   (See figure #4)
   Take care not to bend motor plate when removing knockout. (Put motor plate in vise and use a hammer to knock out plate or vise grips to bend plate out.)
   Note: All 153 tooth "stock" cast iron flywheels must have 1/8" machined off the backside of flywheel for proper clearance.
3. Bolt motor plate to engine using "A" & "B" location holes as noted in Figure #3 with the appropriate bolts as described in the Complete Parts list for #8630/40 Bellhousing kit. Torque bolts to 30 ft/lbs.
4. Reinstall flywheel using existing bolts applying loctite torque bolts to 60 ft/lbs.
5. Reinstall clutch using existing bolts applying loctite, torque bolts to 35 ft/lbs.
6. Install bellhousing using "C" & "D" location holes as noted in Figure #3 with the appropriate bolts as described in Complete Parts List.
7. Reinstall clutch fork assembly.
8. Use air gap hole to check release of clutch, adjust as necessary.

INSTALLATION
#8660/8624/8640 BELL HOUSING KIT

1. Check the parts list to make sure that you have all parts. Also read over the notes at the end of this section as they may be applicable to your application.
2. Remove flywheel and determine what size flywheel is mounted on your engine, either a 157 or 164 tooth flywheel. Remove knockout and grind mounting tab on motor plate if you have determined that you have a 164 tooth flywheel.
   (See figure #6)
   Take care not to bend motor plate when removing knockout. (Put motor plate in vise and use a hammer to knock out plate or vise grips to bend plate out.)
3. Reinstall flywheel using existing bolts applying loctite, torque bolts to 60 ft/lbs.
4. Reinstall clutch using existing bolts applying loctite, torque bolts to 35 ft/lbs.
5. Install bellhousing using "C" & "D" location holes as noted in Figure #5 with the appropriate bolts as described in Complete Parts List.
6. Reinstall clutch fork assembly.
Notes:
A. To use 8624 Housing with a Tremec Ford Trans, adapter plate #8607 must be used. Also use the adjustable ball stud and jam nut provided with kit # 8607.
B. If using a Tremec trans, the 4 mounting holes must be drilled open to Ø1/2" when using Bellhousing kit #8660.
C. 8660 Bellhousing kit comes with (2) trans locating rings.
   Ø4.850 for Tremec & Ø4.910 for T-5 trans pattern
   Use the appropriate ring for your transmission. (Make sure that fit is snug)
D. When using 8660 Bellhousing kit with mechanical linkage, "L" bracket must be spaced 3/4" toward engine, use spacer #8666.
Complete Parts List

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3/8 - 16x1&quot; Hex head bolt w/lock washer (for location &quot;A&quot; holes)</td>
</tr>
<tr>
<td></td>
<td>Note: Not all holes will be used with all motors</td>
</tr>
<tr>
<td>5</td>
<td>3/8 - 16x1&quot; Allen head bolt w/lock washer (for location &quot;B&quot; holes)</td>
</tr>
<tr>
<td>5</td>
<td>3/8 - 16x1&quot; Hex head bolt w/self locking nuts (for location &quot;C&quot; holes)</td>
</tr>
<tr>
<td>11</td>
<td>3/8 - 16 x 1&quot; Hex head bolt w/self locking nut on backside (for location &quot;D&quot; holes)</td>
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<tr>
<td>1</td>
<td>#8651 Motor plate</td>
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<tr>
<td>1</td>
<td>#8653 Bellhousing</td>
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#8630 & 8640 BELLHOUSING SET

**Complete Parts List**

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<th>Qty</th>
<th>Description</th>
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<tr>
<td>(1)</td>
<td>#8613 - Trans Locating Ring</td>
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<tr>
<td>(3)</td>
<td>3/8 - 16x1&quot; Allen head bolt w/lock washer (for location &quot;A&quot; holes)</td>
</tr>
<tr>
<td>(3)</td>
<td>3/8 - 16x1&quot; Hex head bolt w/lock washer (for location &quot;B&quot; holes)</td>
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<tr>
<td>(10)</td>
<td>3/8 - 16x1&quot; Hex head bolt w/self locking nuts (for location &quot;C&quot; holes)</td>
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<tr>
<td>(1)</td>
<td>Bellhousing #8633 (8630 kit without adj. holes)</td>
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<tr>
<td>(1)</td>
<td>#8643 (8640 kit with adj. holes)</td>
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<tr>
<td>(1)</td>
<td>Motor Plate #8631</td>
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</table>

Figure #3

Figure #4
Complete Parts List

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<th>Qty</th>
<th>Description</th>
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<tr>
<td>6</td>
<td>7/16 - 14x1&quot; Hex head bolt w/lock washers (for location &quot;A&quot; holes)</td>
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<tr>
<td>13</td>
<td>3/8 - 16x1&quot; Hex head bolt w/self locking nuts (for location &quot;B&quot; holes)</td>
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<tr>
<td>2</td>
<td>5/16 - 18 Hex head bolt (for location &quot;C&quot; holes)</td>
</tr>
<tr>
<td>1</td>
<td>Bellhousing #8663 for 8660</td>
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<tr>
<td></td>
<td>Bellhousing #8623 for 8625/8624</td>
</tr>
<tr>
<td></td>
<td>Motor Plate #8621 for all kits</td>
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