

## Introduction

Rebuilding, or overhauling, automatic transmissions and transaxles requires extensive knowledge and careful work habits. This chapter will outline automatic transmission and transaxle overhaul procedures. If you have studied the information in Chapter 3 and in Chapters 8–10, you will be familiar with the components and tools discussed in this chapter.

This chapter presents general procedures for rebuilding automatic transmissions and transaxles. Always refer to the manufacturer's service manual for specific information. It will contain accurate instructions for disassembling, cleaning, inspecting, and rebuilding the unit at hand. Note that certain procedures performed as part of the rebuilding operation—valve body service, for example—were covered in Chapter 15.



**Note:** For transaxle final drive rebuilding information, refer to Chapter 18.

Although a typical automatic transmission or transaxle contains many parts, it can be successfully rebuilt if you follow logical procedures.

Special service tools are sometimes needed when rebuilding an automatic transmission or transaxle. These tools can be purchased from the vehicle dealer or ordered directly from the manufacturer. Refer to Chapter 2 for more information on special service tools used to service automatic transmissions and transaxles.

## Automatic Transmission and Transaxle Disassembly

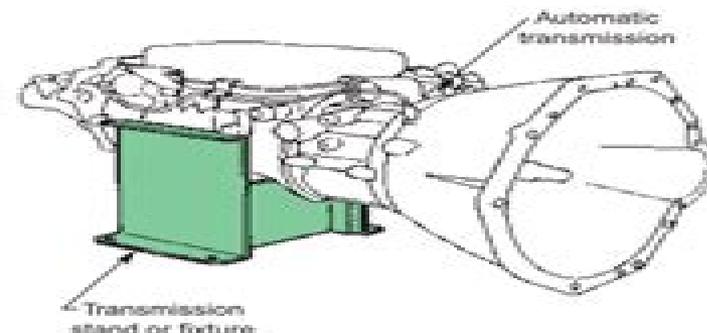
Before beginning disassembly of a transmission or transaxle, clean the outside of the unit thoroughly and mount the unit in a holding fixture, **Figure 17-1**. If a holding fixture is not available, place the assembly on a clean workbench. The workbench should be constructed so that transmission fluid can drain into a catch basin.

As you remove the major parts of the transmission or transaxle, set them aside for further disassembly. Then work on one subassembly (pump, clutch pack, or servo, for example) at a time. This will help you keep things straight.

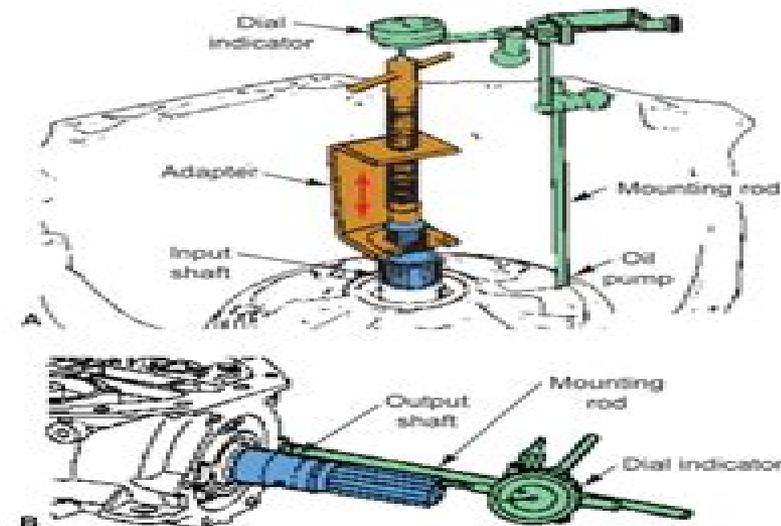
## Removing External Components

The first step in disassembly is to remove the torque converter holding tool and the torque converter from the transmission or transaxle. Before proceeding, check the converter housing for dents or obvious leakage, and for stripped converter attaching bolt holes. Check the converter crankshaft pilot projection for burrs or damage, and check

the oil pump driving lugs (if used) for wear or burrs. Then check input and output shaft endplay as shown in **Figure 17-2**. **Endplay** (back-and-forth movement of the shaft) should be checked before the transmission or transaxle is disassembled (and again after it is reassembled). Record the endplay readings for later reference. Excessive endplay indicates wear of the thrust washers and other parts. This should be corrected during the rebuilding process.



**Figure 17-1.** It is much easier to overhaul a transmission or transaxle if it is placed in a special holding fixture. (Nissan)



**Figure 17-2.** Always check endplay before disassembling the transmission. The service manual will contain the endplay specifications and the procedures for setting up the dial indicators. A—Checking input shaft endplay. B—Checking output shaft endplay. (General Motors)

# Today's Tech Auto Transmissions Transaxles Eresource 3e

**Jack Erjavec**



### **Today's Tech Auto Transmissions Transaxles Resource 3e:**

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