



Technical Service Information

ZF5HP24

“E” CLUTCH FEED PIPE DAMAGE

COMPLAINT: The vehicle with a ZF5HP24 comes into the shop with a complaint of harsh shifts, both up and down. A scan of the TCM shows no codes stored and the transmission is not in limp mode. However the transmission control system has defaulted to maximum line pressure.

CAUSE: The “E” clutch feed pipe has made contact with the valve body casting and has had a hole rubbed through the pipe, (Refer to Figures 1 and 2).

CORRECTION: It would seem that the valve body covers enough of the hole to prevent the leak from becoming bad enough to allow clutch slippage which would result in a gear ratio error code being stored as well as limp mode.

It is important to insure that the feed pipe fits tightly in the case to prevent contact with the valve body. It would also help to remove some of the valve body casting, in the ribbed area, to insure enough clearance between the pipe and the valve body.

Either repair the pipe as shown in Figure 3 if the pipe is unavailable or purchase a new feed pipe using the part number listed below under service information from an authorized ZF distributor.

SERVICE INFORMATION:

“E” Clutch Feed Pipe.....(ZF Part Number) 1058301021

Many thanks to Mr. Bart Schillings at Bart Transmission & Turbo Shop in Heerlen Buzzpr, The Netherlands for sharing his experience with us and a special thanks for the photos.

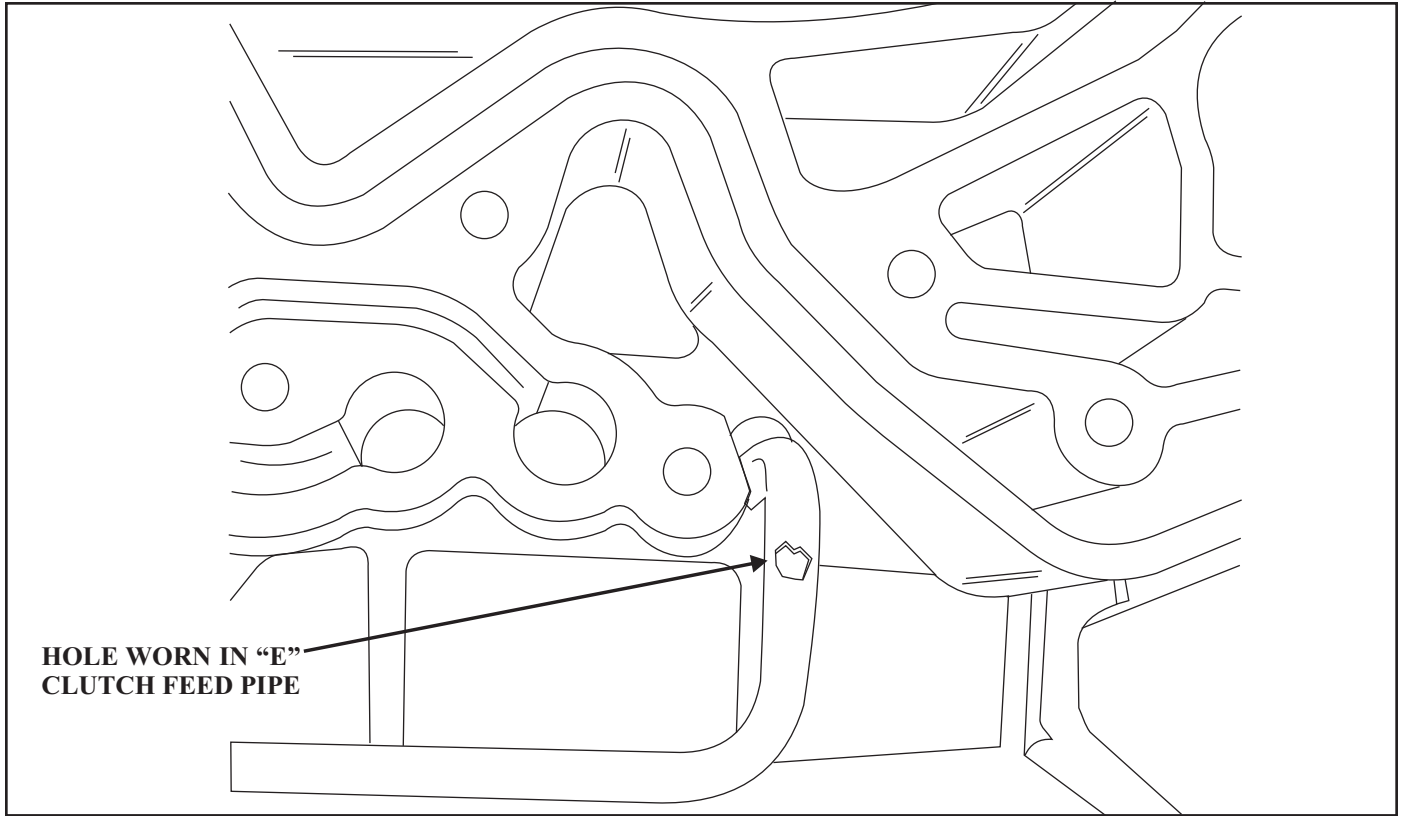


Figure 1

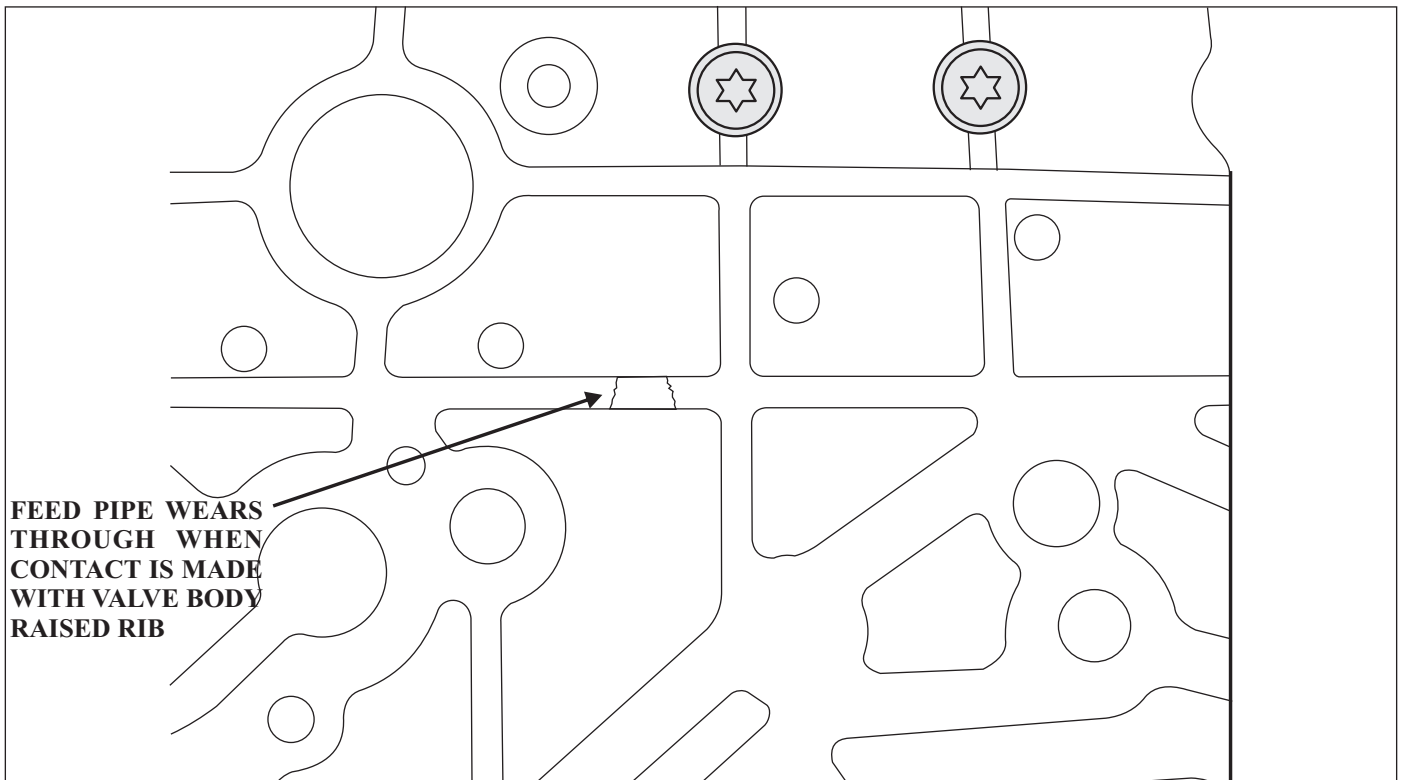


Figure 2

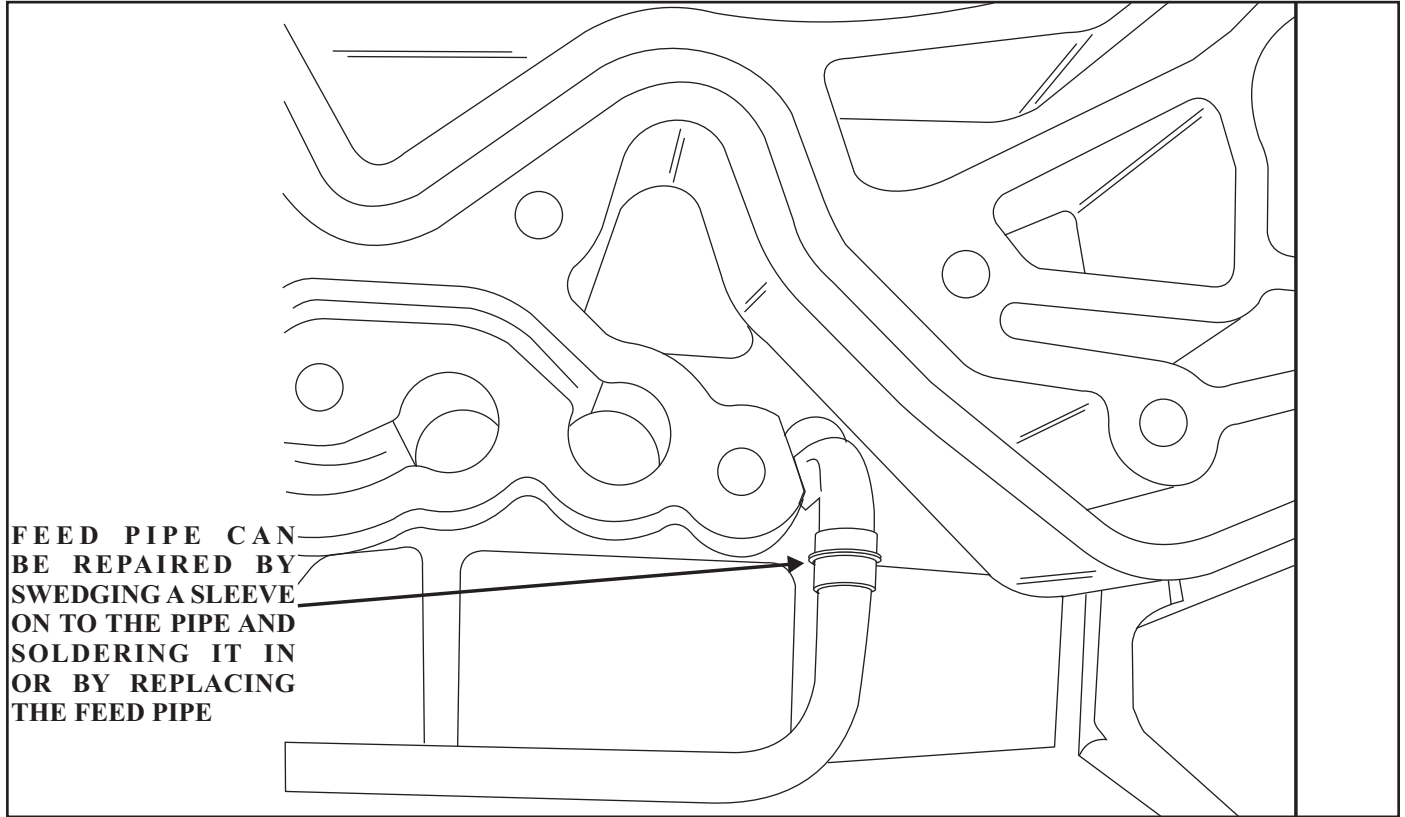


Figure 3