



# Technical Service Information

## **FORD A4LD CHECKBALL LOCATIONS (ALL MODELS)**

THERE ARE FOUR DIFFERENT DESIGN LEVELS ON THE A4LD VALVE BODIES AND THEY HAVE FOUR DIFFERENT CHECK BALL LOCATIONS. ALL FOUR DESIGN LEVELS ARE LISTED BELOW.

### **1ST DESIGN**

This valve body has ONE Solenoid for converter clutch apply and release. These valvebodies require six (6) checkballs placed in the locations shown in Figure 1. DO NOT install checkball in the locations marked with an "X". (SEE FIGURE 1).

### **2ND DESIGN**

This valve body has TWO Solenoids, 1 for converter clutch and 1 for the 3-4 shift, and DE NOT use a reverse engagement valve. These valve bodies require five (5) checkballs placed in the locations shown in Figure 2. DO NOT install checkball in the locations marked with an "X". (SEE FIGURE 2).

### **3RD DESIGN**

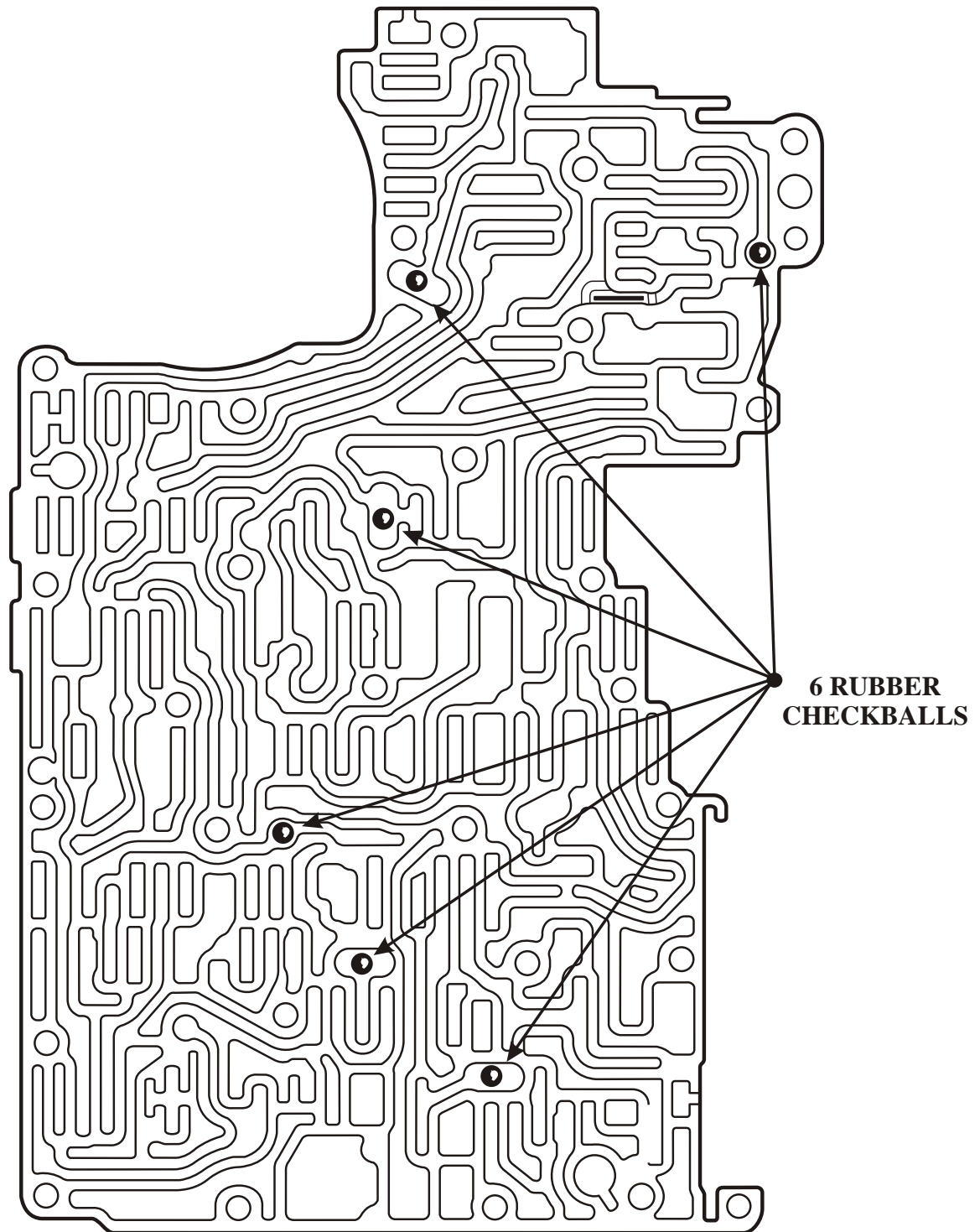
This valve body has TWO Solenoids, 1 for converter clutch and 1 for the 3-4 shift, and DOES use a reverse engagement valve. These valve bodies require four (4) checkballs placed in the locations shown in Figure 3. DO NOT install checkball in the locations marked with an "X". (SEE FIGURE 3).

### **MERKER/SCORPIO**

This valve body has ONE Solenoid for converter clutch apply and release. These valvebodies require seven (7) checkballs placed in the locations shown in Figure 4. DO NOT install checkball in the locations marked with an "X". (SEE FIGURE 4).

THE CONDITIONS WILL VARY, IF YOU INSTALL A CHECKBALL IN THE WRONG LOCATION, AND DEPENDS ON WHICH CHECKBALL YOU DECIDE TO MOVE, AND WHICH CHECKBALL POCKET THAT YOU DECIDE TO PUT IT IN. USE FIGURES 1, 2,3, AND 4 FOR PROPER CHECKBALL LOCATION.

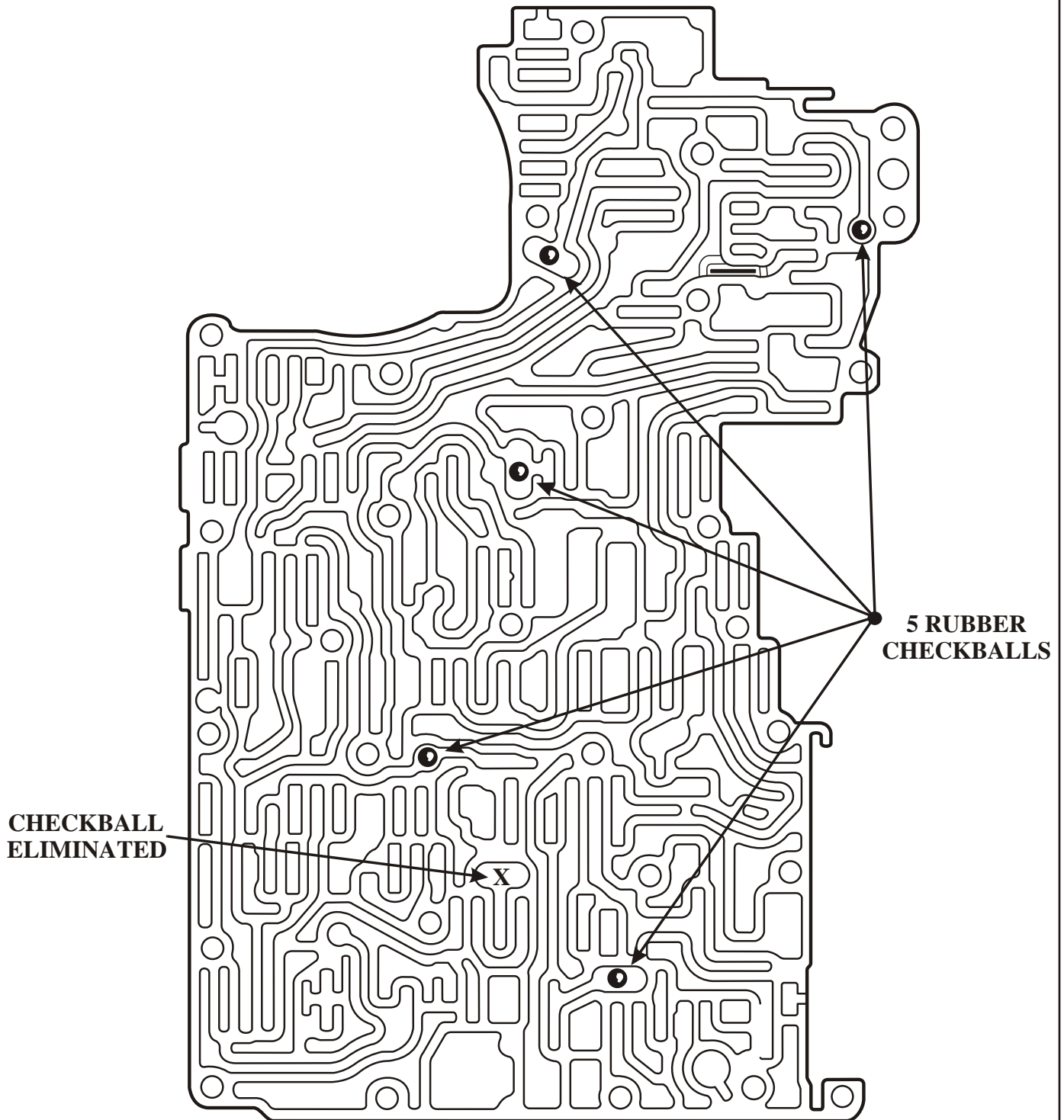
## EARLY 1985 - 1987 SINGLE SOLENOID HYDRAULIC 3-4 SHIFT VALVEBODY



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Figure 1

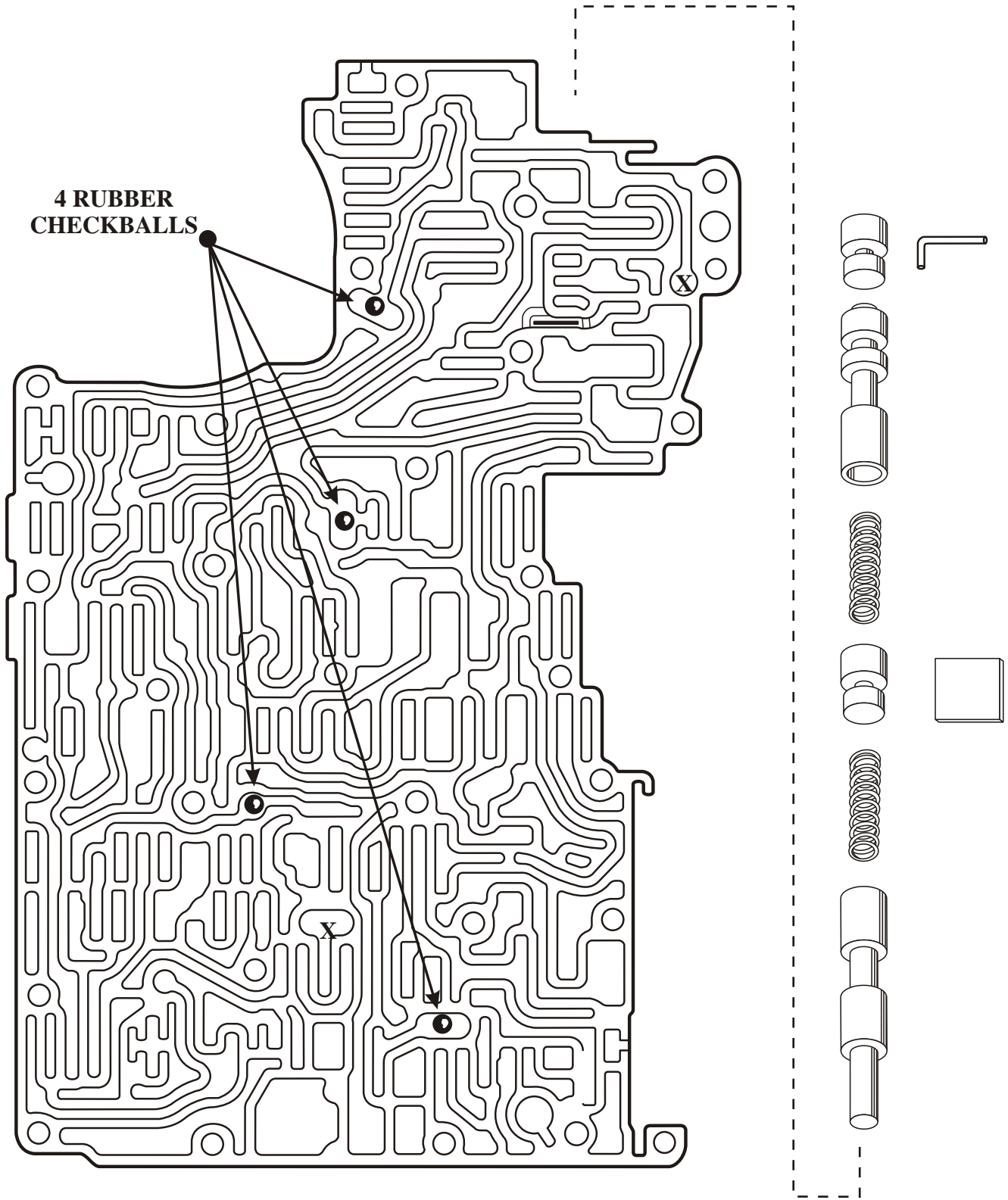
## 1988 - 1990 DUEL SOLENOID ELECTRONIC 3-4 SHIFT VALVEBODY



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Figure 2

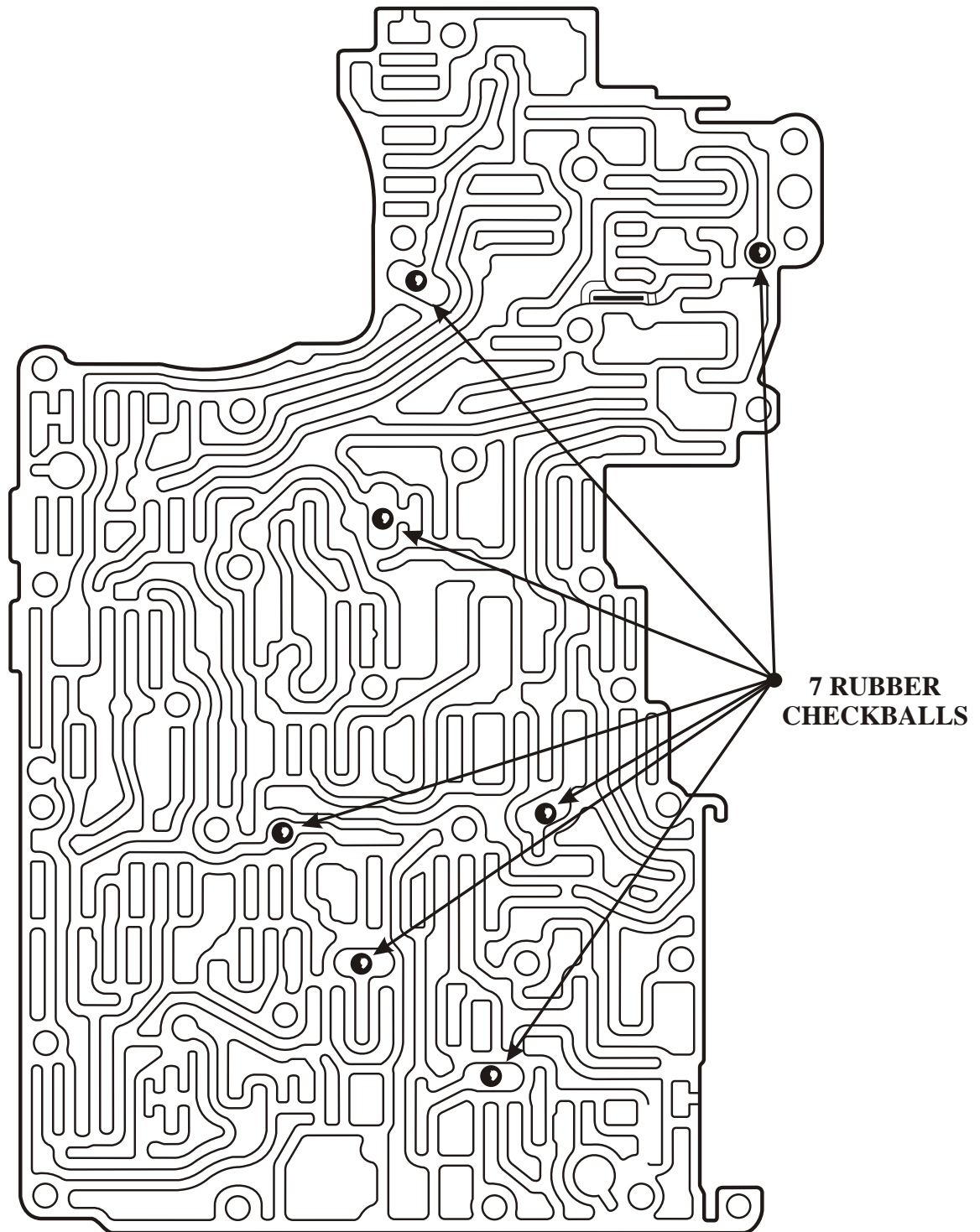
## 1990 - UP DUEL SOLENOID WITH REVERSE ENGAGEMENT CONTROL VALVE



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Figure 3

**MERKER SCORPIO  
SINGLE SOLENOID HYDRAULIC 3-4 SHIFT VALVEBODY**



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Figure 4