



Technical Service Information

CHRYSLER A604 VALVE BODY CHANGES

CHANGE NO.1:

Beginning at the start of production 1992 on all A604 transaxles, there is a completely different (2nd Design) Valve Body Assembly.

CHANGE NO. 2:

Beginning at the start of production 1993 on all A604 transaxles, there is another completely different (3rd Design) Valve Body Assembly.

REASON FOR CHANGE NO. 1:

The 1992 (2nd Design) valve body assembly, along with the appropriate software (Computer), allows "Partial Lock-up" of the converter clutch in 3rd or 4th gear depending on conditions. This change is for improved driveability and fuel economy.

REASON FOR CHANGE NO. 2:

The 1993 (3rd Design) valve body assembly reduces a reverse "Buzz" complaint.

PARTS AFFECTED BY CHANGE NO. 1:

(1) VALVE BODY CASTING - 2nd design required machining and casting changes to accommodate new lock-up valve and torque converter control valve components. For positive identification, 2nd design valve body casting number is 4511644, and the previous (1st Design) valve body casting number is 4446639. (See Figures 1 and 2)

(2) TRANSFER PLATE - 2nd design required machining and casting changes to accommodate new lock-up valve and torque converter control valve components. For positive identification, 2nd design transfer plate casting number is 4511645, and the previous (1st Design) transfer plate casting number is 4446640. (See Figures 3 and 4).

(3) TORQUE CONVERTER CONTROL VALVE - 2nd design valve is made of aluminum instead of steel, and the land configuration is different than the 1st design. (See Figure Sand 9).

(4) TORQUE CONVERTER CONTROL VALVE SPRING - 2nd design is calibrated different than the 1st design.

(5) VALVE BODY SPACER PLATE - 2nd design is identified with "46" stamped in the spacer plate and 1st design being identified with "33" stamped in the plate. 2nd design "46" plate is TOTALLY different to accommodate new TCC control valve and casting changes (See Figures 5 and 6).

(6) VALVES, PLUGS AND SLEEVES - Made of aluminum, replacing most of the current steel components. The P.R. Valve is still made of steel.



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PARTS AFFECTED BY CHANGE NO. 2:

- (1) TORQUE CONVERTER CONTROL VALVE - 3rd design valve has two of the lands made .020" thicker than the previous, and has "Groove" cut into stem for I.D. (See Figure 9).
- (2) TORQUE CONVERTER CONTROL VALVE SPRING - Calibration changes to accomodate the new design TCC Control valve.
- (3) VALVE BODY SPACER PLATE - 3rd design is identified with "96" stamped in plate, and 2nd design is identified with "46" stamped in plate. The 3rd design "96" spacer plate has calibration changes to accomodate the new TCC control valve. (See Figures 6 and 7).

INTERCHANGEABILITY:

1st design parts and 2nd design parts ARE NOT INTERCHANGEABLE AND WILL CREATE FUNCTIONAL PROBLEMS.

2nd design parts and 3rd design parts will fit, but WILL create calibration and/or noise problems.

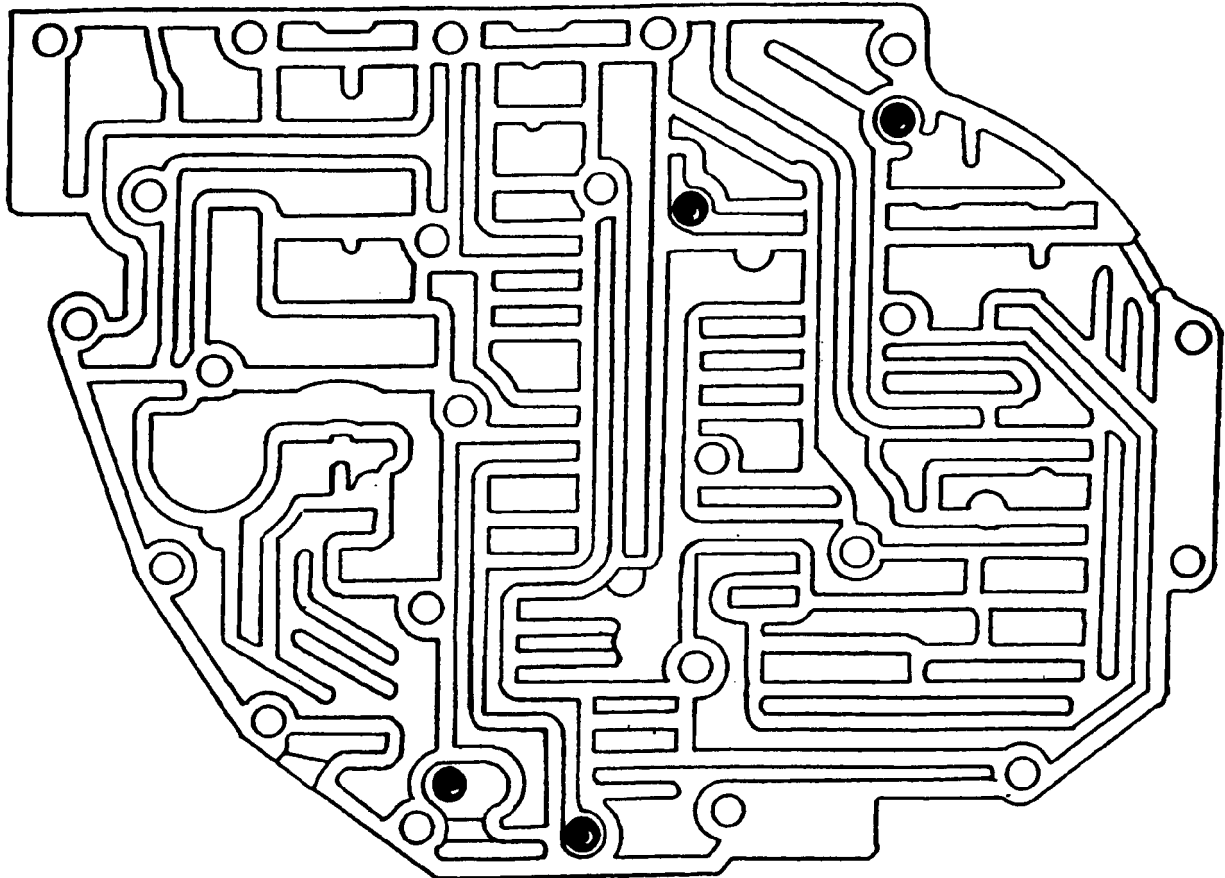
3rd design complete valve body assembly will fit all previous model transaxles regardless of whether the software (Computer) change was made or not. If the software (Computer) update was not made then the valve body will perform just like the previous version

SERVICE INFORMATION:

Valve Body Assembly Complete (3rd Design) 4659044

NOTE: This valve body assembly will reduce reverse "Buzz" noise on 1992 model A604 transaxles.

CHRYSLER A604

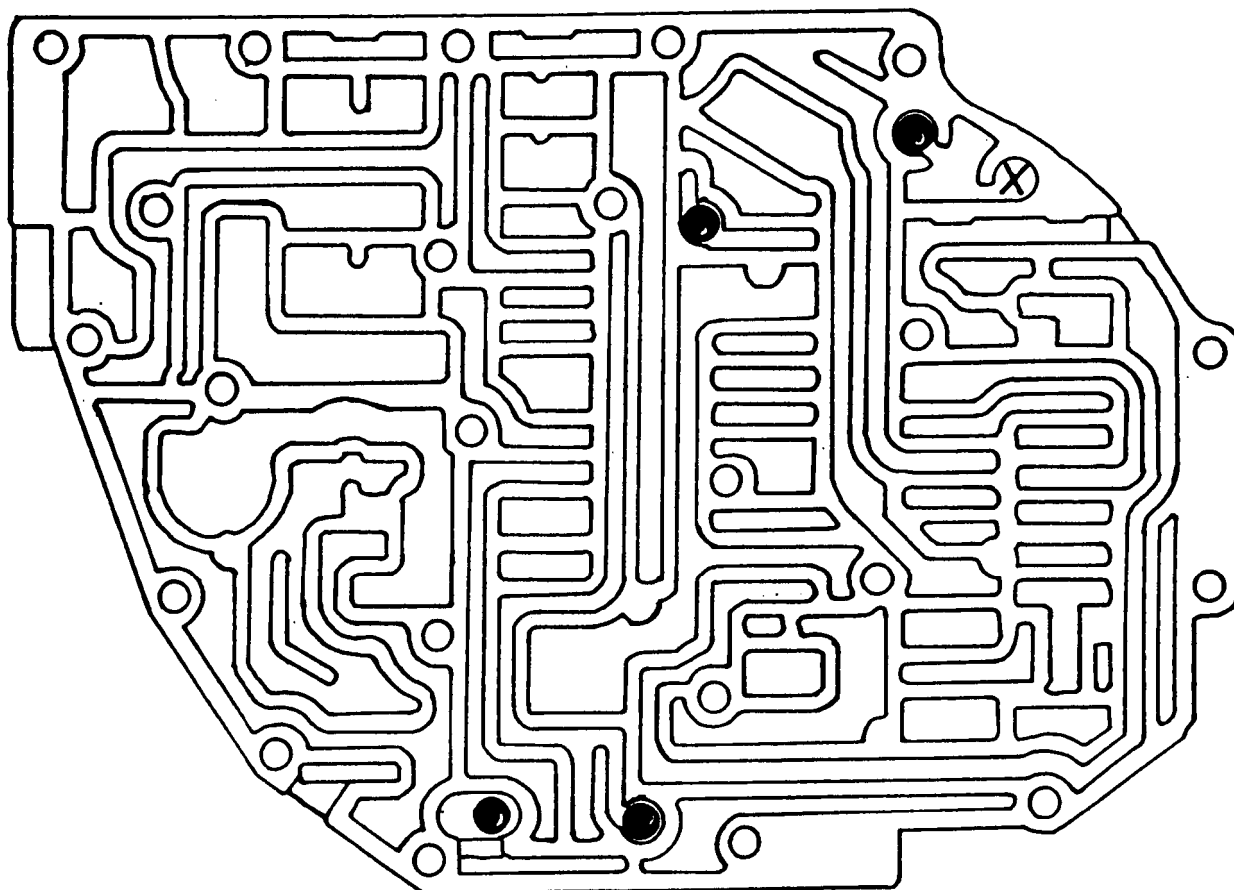


VALVE BODY CASTING NUMBER 4446639
(FITS MODEL YEARS 1989-1991)

NOTE: REQUIRES FOUR CHECKBALLS IN THE LOCATIONS SHOWN ABOVE.

Figure 1

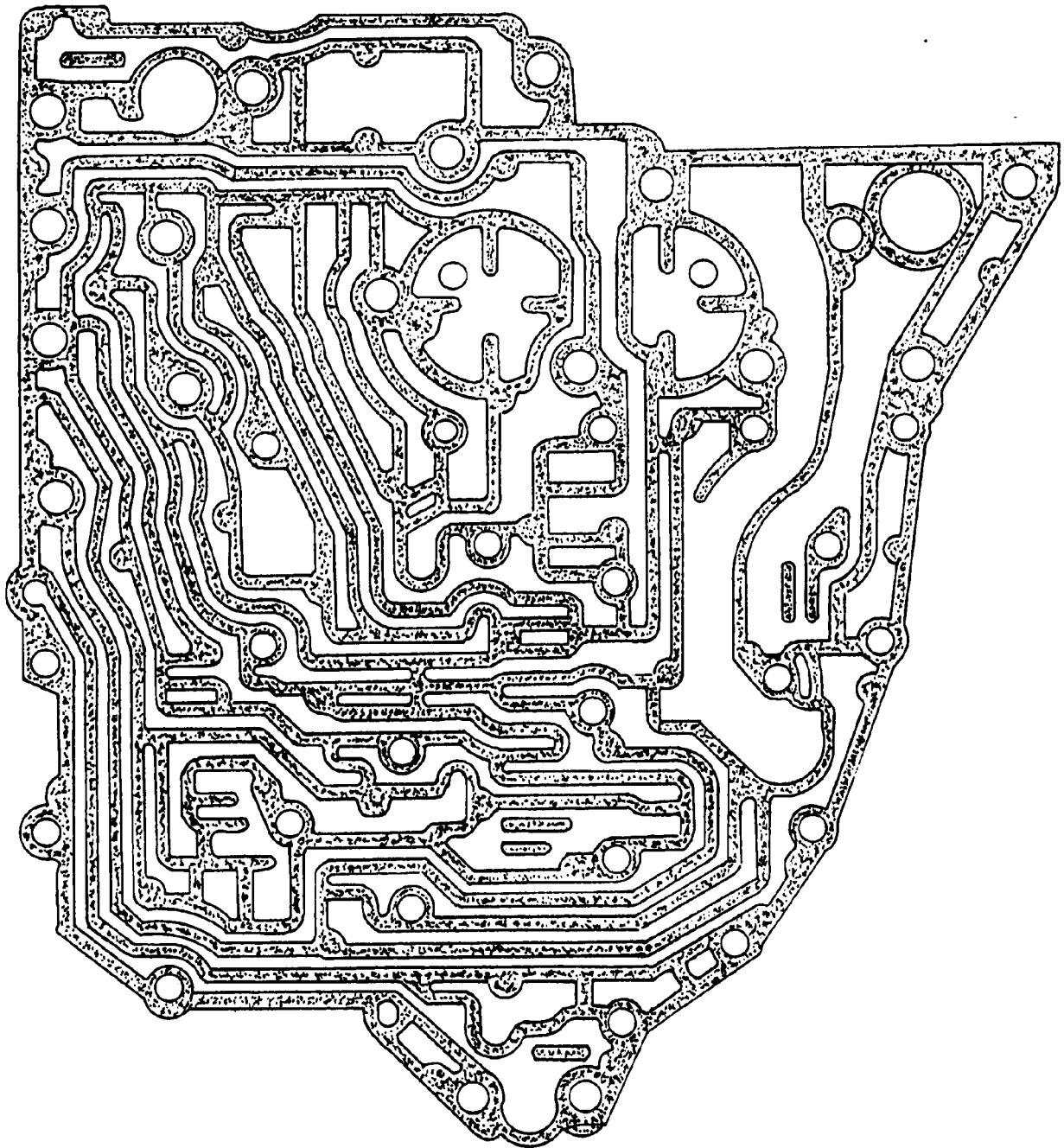
CHRYSLER A604



VALVE BODY CASTING NUMBER 4511644
(IMPLEMENTED 1992 MODEL YEAR)

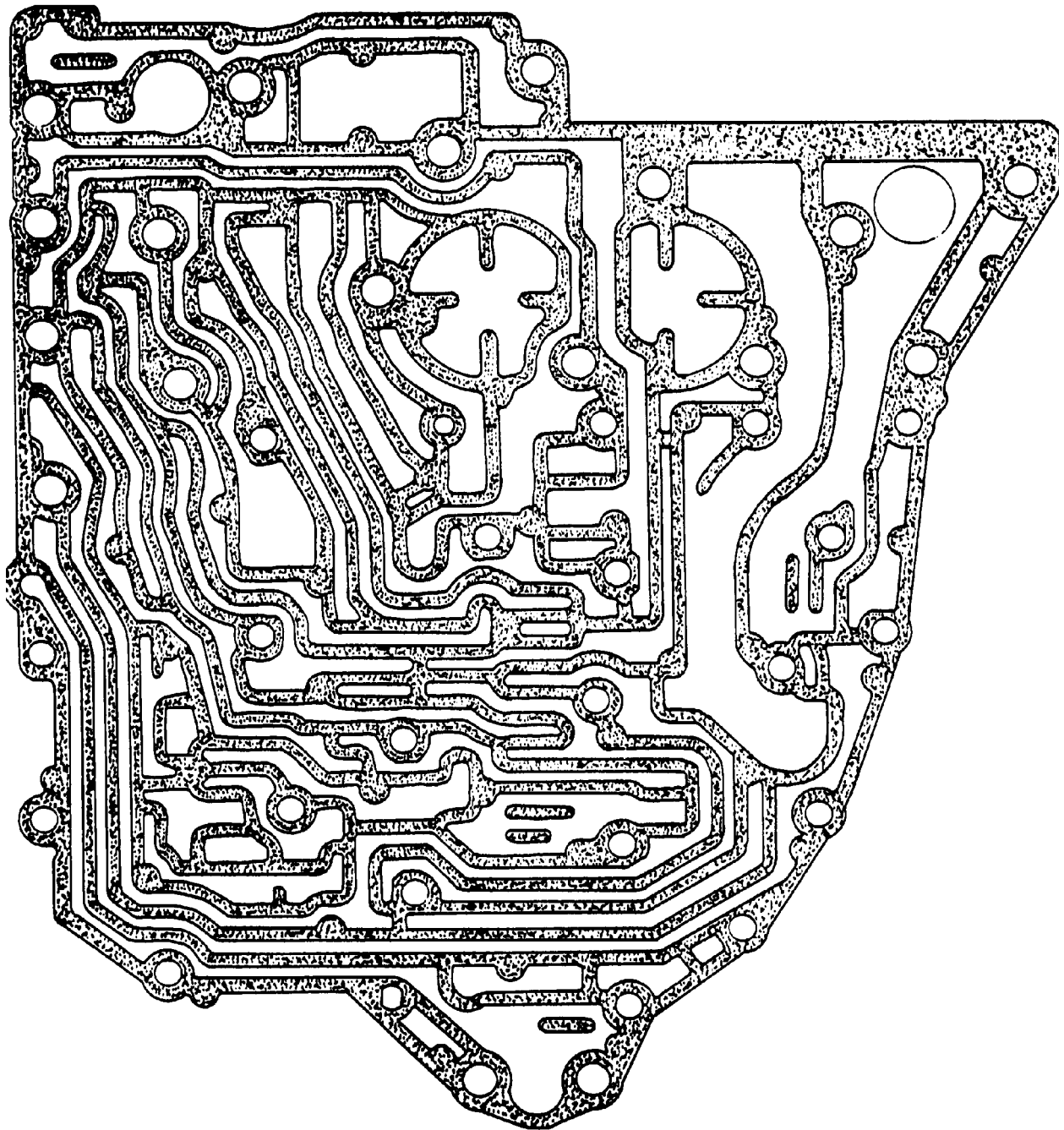
NOTE: REQUIRES FOUR CHECKBALLS IN THE LOCATIONS SHOWN ABOVE. DO NOT INSTALL
IN LOCATION MARKED "X".

Figure 2



CHRYSLER A604 TRANSFER PLATE
CASTING NUMBER 4446640
(FITS MODEL YEARS 1989-1991)

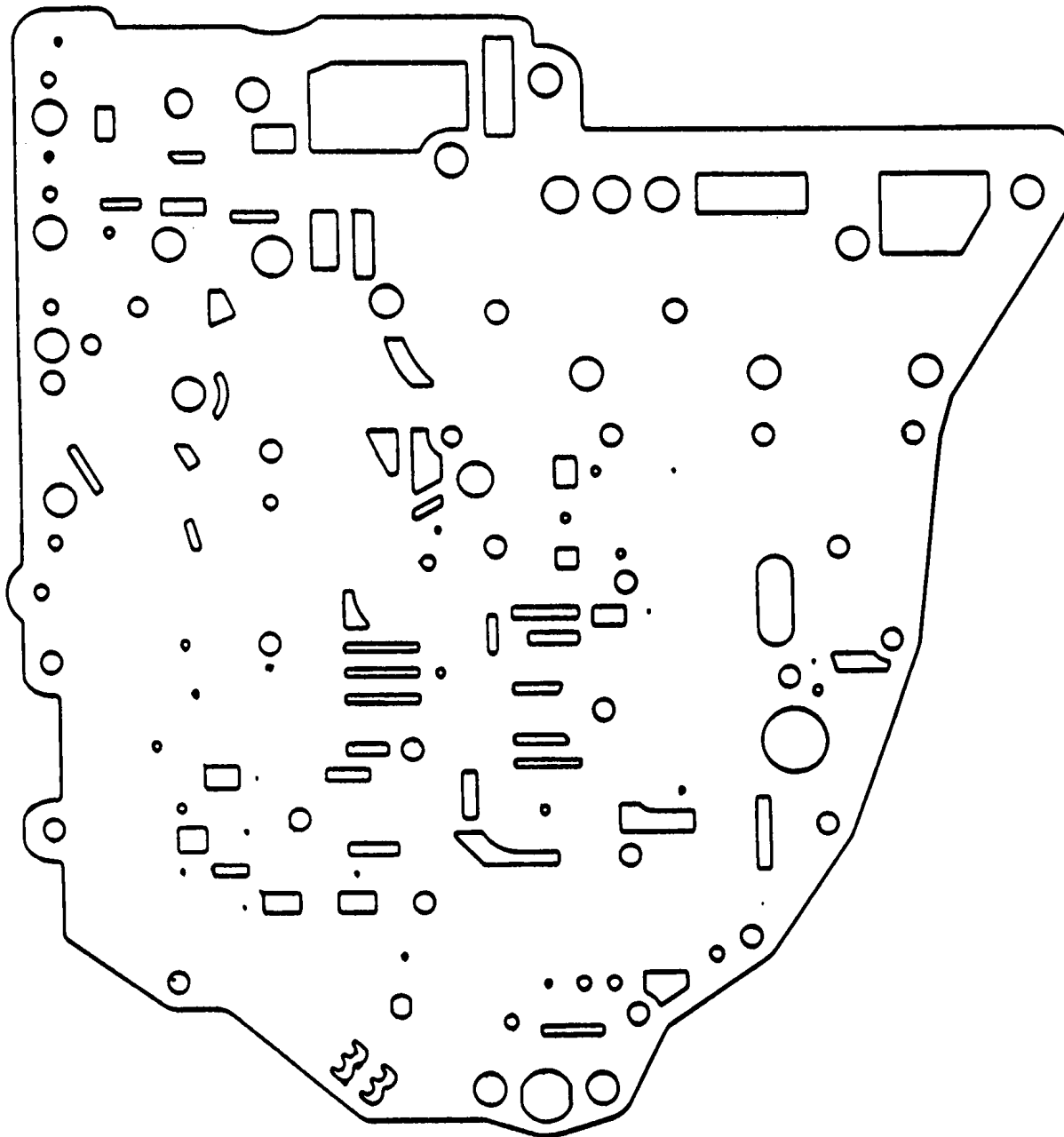
Figure 3



CHRYSLER A604 TRANSFER PLATE
CASTING NUMBER 4511645
(IMPLEMENTED 1992 MODEL YEAR)

Figure 4

CHRYSLER A604
1ST DESIGN "33" SPACER PLATE



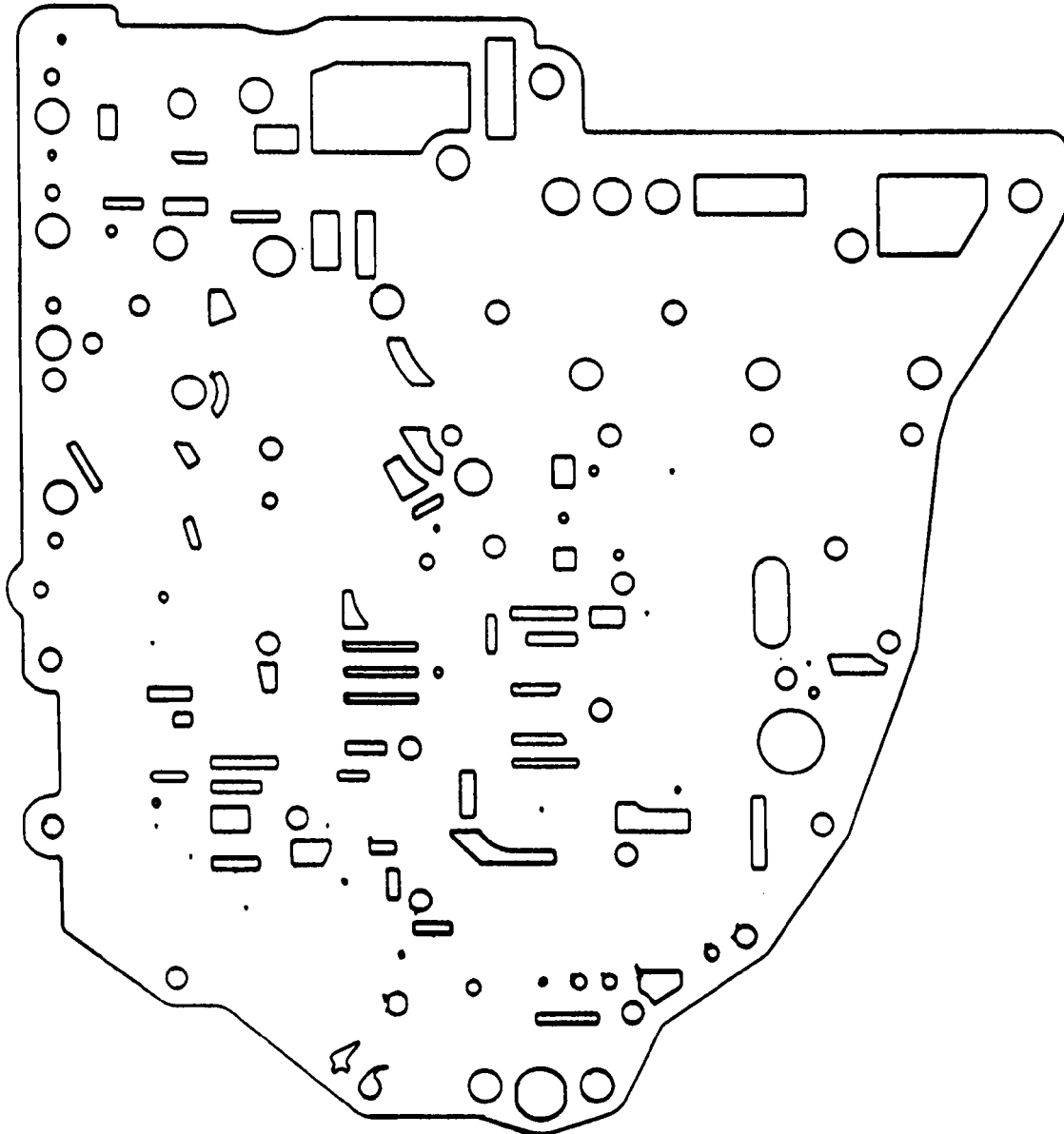
FITS ONLY VALVE BODY CASTING NUMBER 4446639.

FITS ONLY TRANSFER PLATE CASTING NUMBER 4446640.

FITS ONLY 1989-1991 MODEL YEAR VEHICLES.

Figure 5

CHRYSLER A604
2ND DESIGN "46" SPACER PLATE



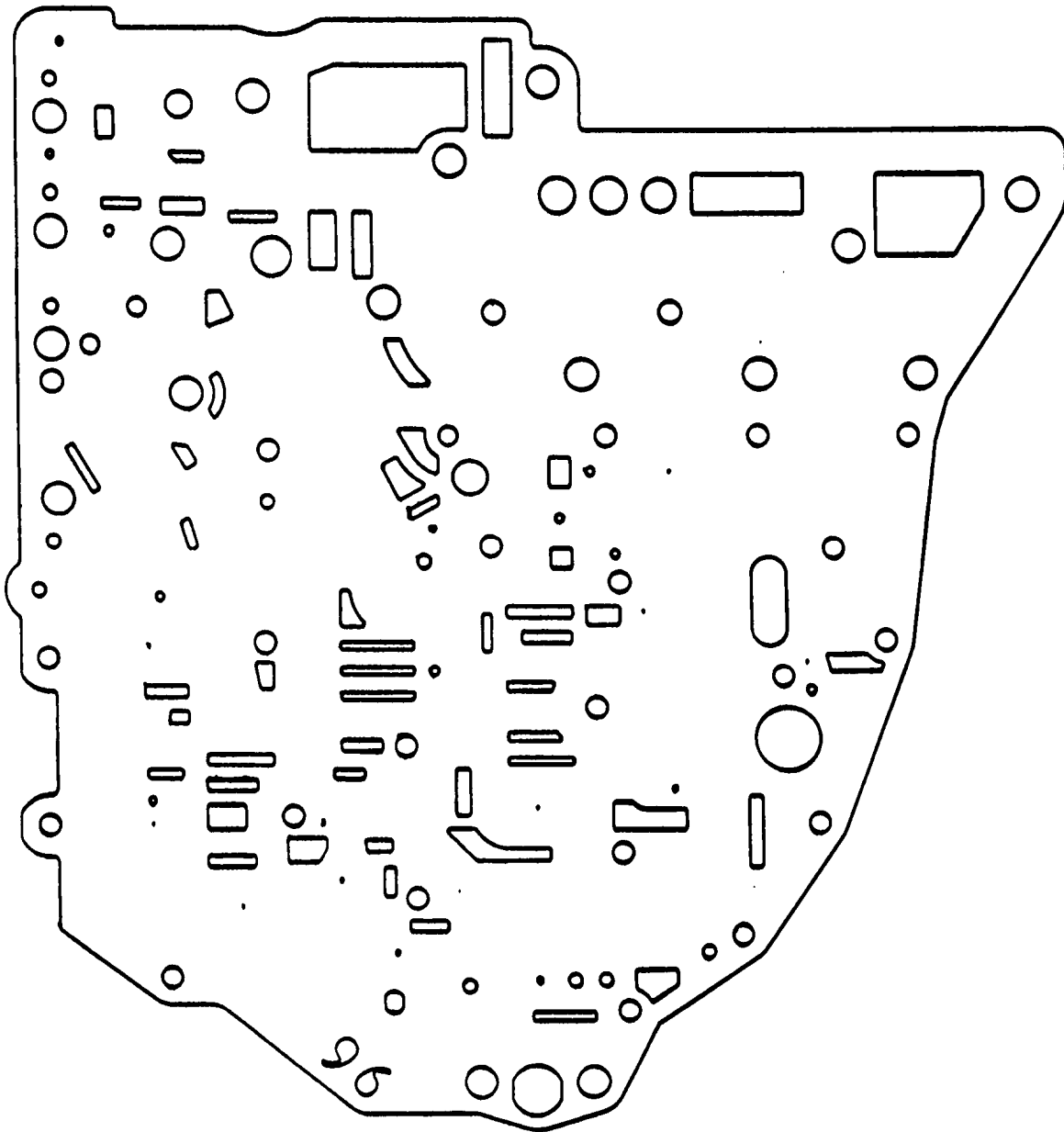
FITS ONLY VALVE BODY CASTING NUMBER 4511644.

FITS ONLY TRANSFER PLATE CASTING NUMBER 4511645.

IMPLEMENTED IN MODEL YEAR 1992.

Figure 6

**CHRYSLER A604
3RD DESIGN "96" SPACER PLATE**



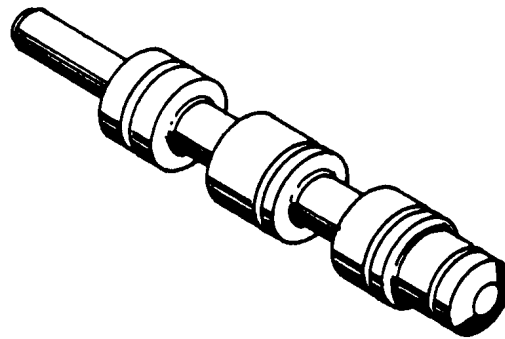
FITS ONLY VALVE BODY CASTING NUMBER 4511644.

FITS ONLY TRANSFER PLATE CASTING NUMBER 4511645.

IMPLEMENTED IN MODEL YEAR 1993.

Figure 7

**CHRYSLER A604
TORQUE CONVERTER CONTROL VALVE**

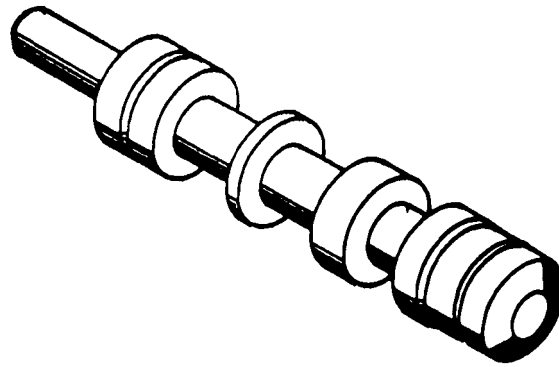


1ST DESIGN

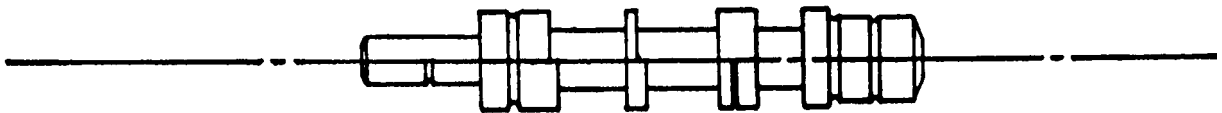
1ST DESIGN USES "33" SPACER PLATE.

Figure 8

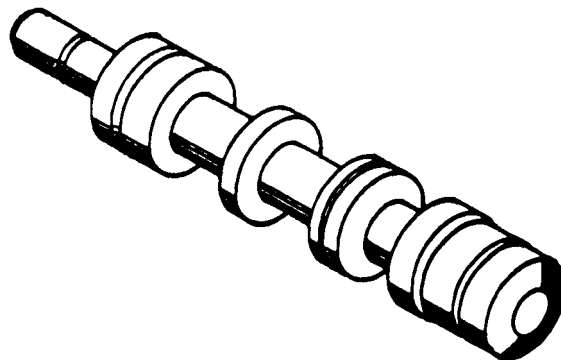
CHRYSLER A604
T/C CONTROL VALVE CHANGES
(TO REDUCE REVERSE BUZZ)



2ND DESIGN



3RD DESIGN



2ND DESIGN USES "46" SPACER PLATE.
3RD DESIGN USES "96" SPACER PLATE.

Figure 9