



Technical Service Information

THM 4L60 (700-R4)

REVERSE INPUT AND CHECKBALL CHANGES FOR 1993

CHANGE: The Reverse Input Housing for ALL 1993 model THM 4L60 transmissions has the oil feed hole enlarged (Large Square Hole), from the previous .095" round feed hole (See Figure 1).

REASON: To make a "Common" Reverse Input Housing for both the THM 4L60 and the THM 4L60-E transmissions for the 1993 model year.

PARTS AFFECTED:

(1) REVERSE INPUT HOUSING - Feed hole has been enlarged from .095" round hole to large square hole, and this is the ONLY identification as they both require the aluminum piston (See Figure 1).

(2) VALVE BODY CASTING - Changed with the addition of checkball in the location shown in Figure 2. (NOT IN BATHTUB). This checkball was added to orifice feed oil to the reverse input clutch (See Figure 2).

(3) VALVE BODY SPACER PLATE - Orifice for the new checkball added in location shown in Figure 3, which is now the orifice for feed oil to the reverse input clutch. The 1993 spacer plate is identified with a two digit code stamped into the spacer plate as shown in Figure 3. However, the 1993 code letter can be prefixed with an "E", "G", or "H". Refer to the chart in Figure 5. Some 1992 spacer plates were also prefixed with an "E", so compare the chart in Figure 4, with the chart in Figure 5, so as not to get the wrong spacer plate.

(4) VALVE BODY GASKETS - Both gaskets now have a "Tear-Drop" hole at checkball and orifice location in spacer plate, instead of the round hole found in the previous gaskets (See Figure 6).

(5) PUMP COVER SEALING RINGS - Will now be solid Teflon seals for use with the new reverse input housing with the large square feed hole, and does require a new installation and re-sizing tool (See Figure 7).

INTERCHANGEABILITY:

(1) REVERSE INPUT HOUSING - 1993 Reverse Input Housing CANNOT be used on any 1987 thru 1992 model transmission, but CAN be used to service any 1982 thru 1986 model transmission. Previous model Reverse Input Housings CANNOT be used on any 1993 models.

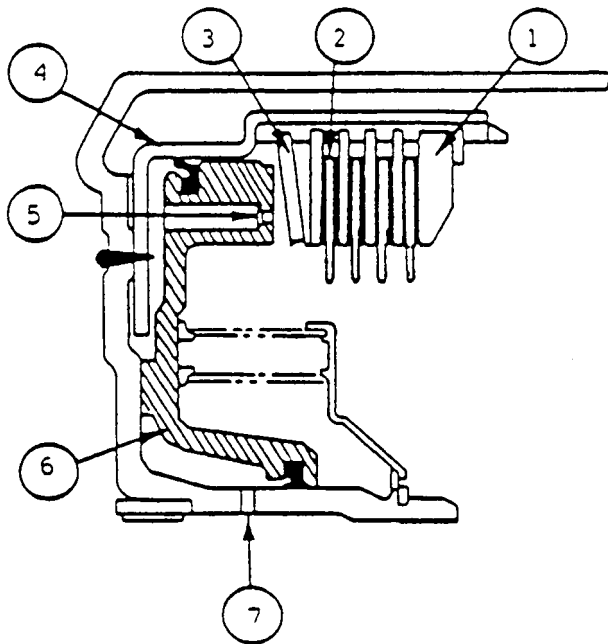
(2) VALVE BODY CASTING - Can be used on previous models back thru 1988 models, as long as checkball is not installed in the new pocket. Previous model valve body CANNOT be used on any 1993 model, as there is no dam to retain new checkball in the proper location.

(3) VALVE BODY SPACER PLATE - Not recommended to be used on any previous models, and 1992 plates WILL NOT work on 1993 models unless the reverse input clutch orifice hole is drilled into the plate.

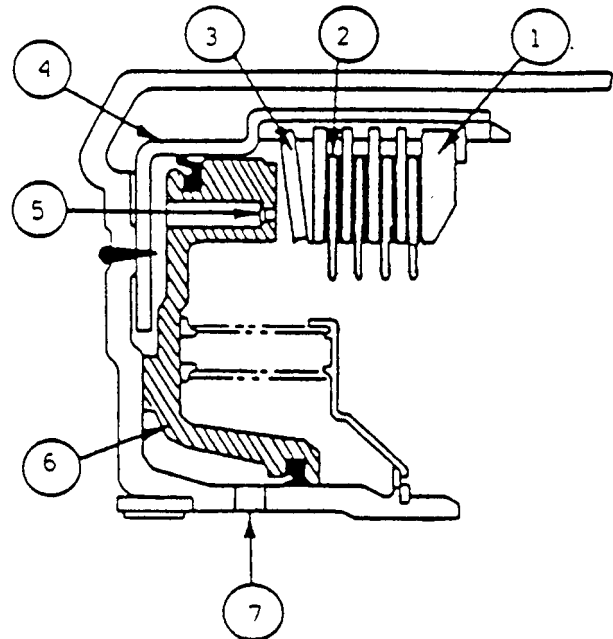
Copyright © 2000 ATSG

(4) VALVE BODY GASKETS - New gaskets can be used on previous models back thru 1987. The previous gaskets CANNOT be used on any 1993 models, as they will lock the reverse input clutch feed orifice in the spacer plate.

(5) PUMP COVER SEAL RINGS - Will retro-fit back on ALL previous models, but will require installation and re-sizing tools.



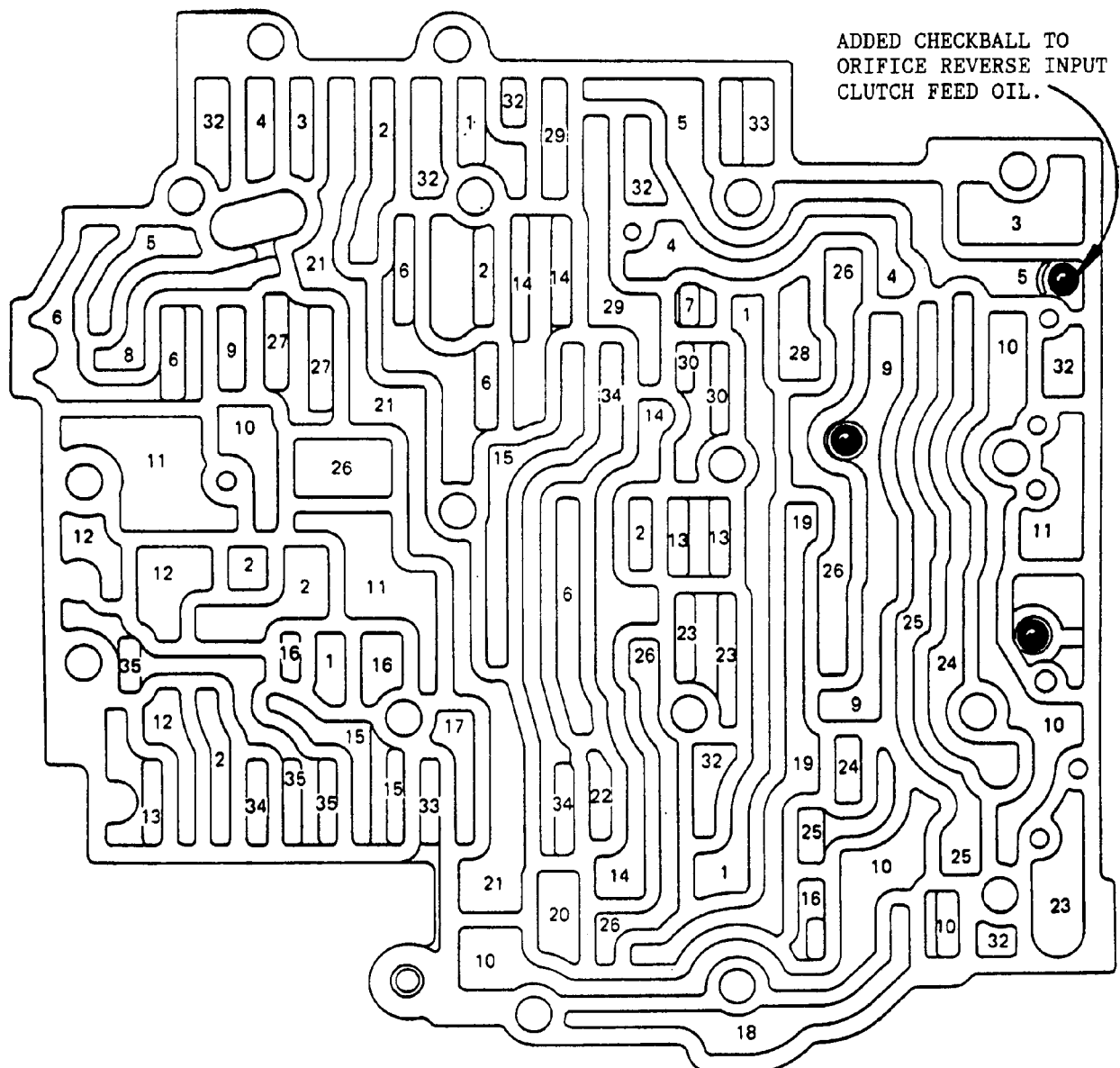
**1987 -1992
MODELS**



**1993
MODELS**

1. Reverse Input Clutch Backing Plate.
2. Reverse Input Clutch Friction Plate.
3. Reverse Input Clutch Bellville Plate (Cone Shaped).
4. Reverse Input Clutch Housing.
5. Reverse Input Clutch Piston Orifice (.095").
6. Reverse Input Clutch Aluminum Piston.
7. FEED ORIFICE IN CLUTCH HOUSING ENLARGED FOR 1993.

Figure 1

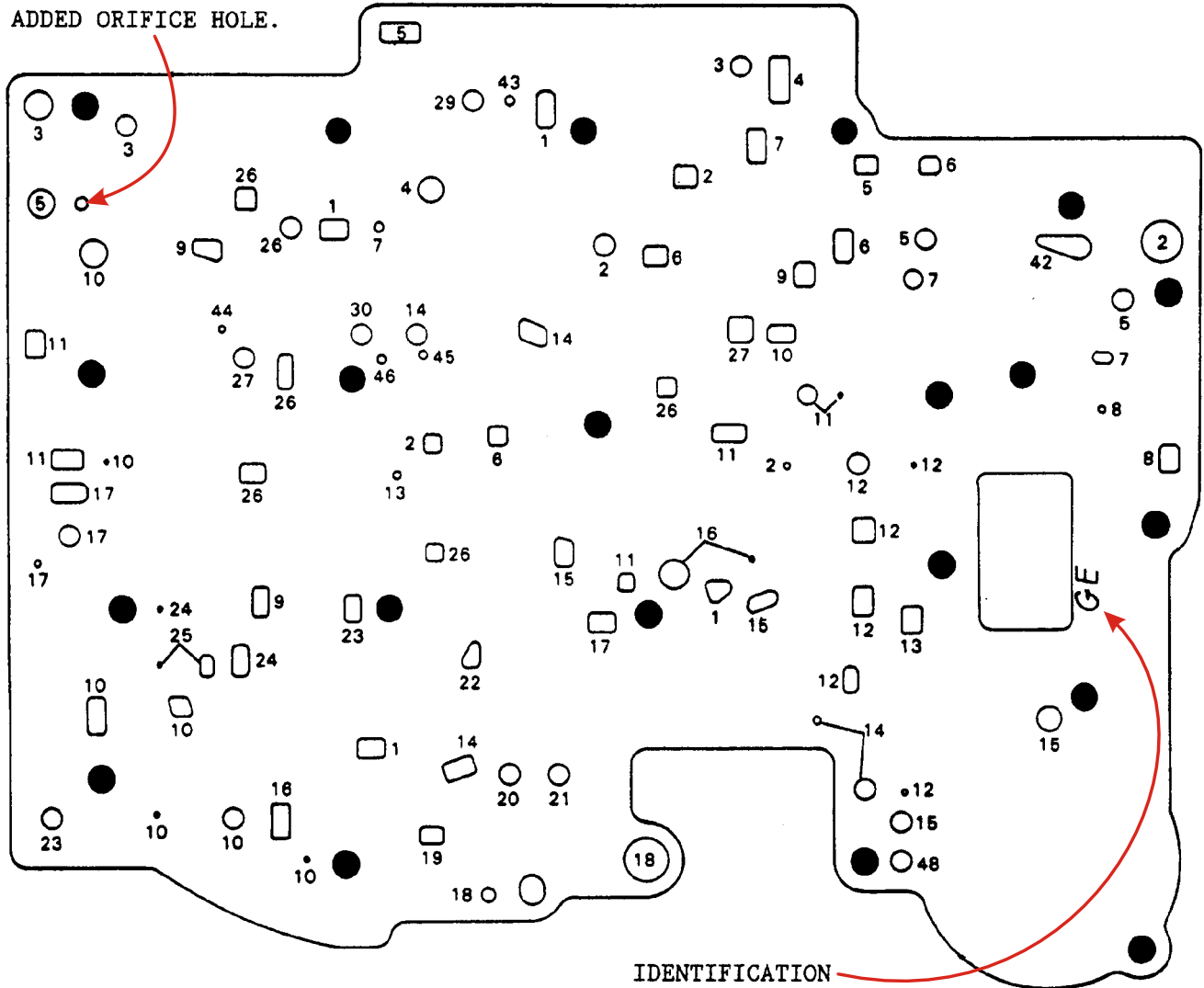


VALVE BODY CHECKBALL LOCATIONS FOR 1993 MODELS ONLY!

ILL. NO.	DESCRIPTION	ILL. NO.	DESCRIPTION	ILL. NO.	DESCRIPTION
1	LINE	13	4TH SIGNAL	25	MOD. DOWN
2	D4	14	2ND CLUTCH	26	DETENT
3	D2	15	3-4 ACCUMULATOR	27	3-4 CLUTCH
4	LO	16	T.V.F.	28	DETENT/LO
5	REVERSE	17	OVERRUN CLUTCH	29	RND4-3
6	GOVERNOR	18	T.V. EX.	30	3RD CLUTCH
7	LO-1	19	D3/PART THROTTLE	31	IDENTIFICATION
8	LO/REVERSE	20	PART THROTTLE	32	VOID
9	3RD ACCUMULATOR	21	D3	33	EXHAUST
10	T.V.	22	4TH CLUTCH	34	SF
11	M.T.V.	23	C.C. SIG.	35	4-3
12	ACCUMULATOR	24	MOD. UP		

Figure 2

ADDED ORIFICE HOLE.



ILL. NO.	DESCRIPTION
1	LINE
2	D4
3	D2
4	LO
5	REVERSE
6	GOVERNOR
7	LO - 1ST FEED
8	LO/REVERSE
9	3RD ACCUMULATOR
10	T.V.
11	M.T.V.
12	ACCUMULATOR
13	4TH SIGNAL

ILL. NO.	DESCRIPTION
14	2ND CLUTCH
15	3-4 ACCUMULATOR
16	T.V.F.
17	OVERRUN CLUTCH
18	T.V. EX.
19	D3/PART THROTTLE
20	PART THROTTLE
21	D3
22	4TH CLUTCH
23	C.C. SIG.
24	MOD. UP
25	MOD. DOWN
26	DETENT

ILL. NO.	DESCRIPTION
27	3-4 CLUTCH
29	RND4-3
30	3RD CLUTCH
31	IDENTIFICATION
42	D4 ABUSE
43	3RD FEED
44	3-2 HIGH SPEED
45	2ND FEED
46	3RD CL. EXHAUST
47	4TH FEED
48	1-2 ACCUMULATOR

Figure 3



Technical Service Information

1993 SPACER PLATE CHART (ALL MODELS)

PART NO. I.D. CODE	8681262 EP	8681263 ES	8681264 ET	8681265 EU	8681266 EV	8681267 EW
FITS THESE MODELS	AAM	BWM	ADM AFM	FAM FDM	HBM	HDM
PART NO. I.D. CODE	8681268 EX	8681269 EY	8681270 EZ			
FITS THESE MODELS	FFM	FMM	HJM			
PART NO. I.D. CODE	8681271 GA	8681272 GB	8681273 GC	8681274 GD	8681275 GE	8681276 GG
FITS THESE MODELS	HLM	YAM YCM	YDM	BAM	BBM BHM	BCM
PART NO. I.D. CODE	8681277 GH	8681278 GJ	8681280 GL	8681285 GS	8681289 GW	8681259 GX
FITS THESE MODELS	BFM	SAM	CPM	LHM	SFM	BRM
PART NO. I.D. CODE	8684466 HA					
FITS THESE MODELS	ASM					

Figure 4



Technical Service Information

1991 - 1992 SPACER PLATE CHART (PREFIX "E" ONLY)

PART NO.	8680144	8680371	8680678	8680677	8680502	8680503
I.D. CODE	EA	EB	EC	ED	EE	EG
FITS THESE MODELS	1CNM 1CYM 1KWM 1RCM 1RDM 2CJM 2CHM 2KJM 2WCM	1AMM 1APM	YAM YCM	YDM	BAM	BWM
PART NO.	8680770	8680828	8681061			
I.D. CODE	EH	EJ	EK			
FITS THESE MODELS	ADM AKM	MMM MSM	CPM			

Figure 5

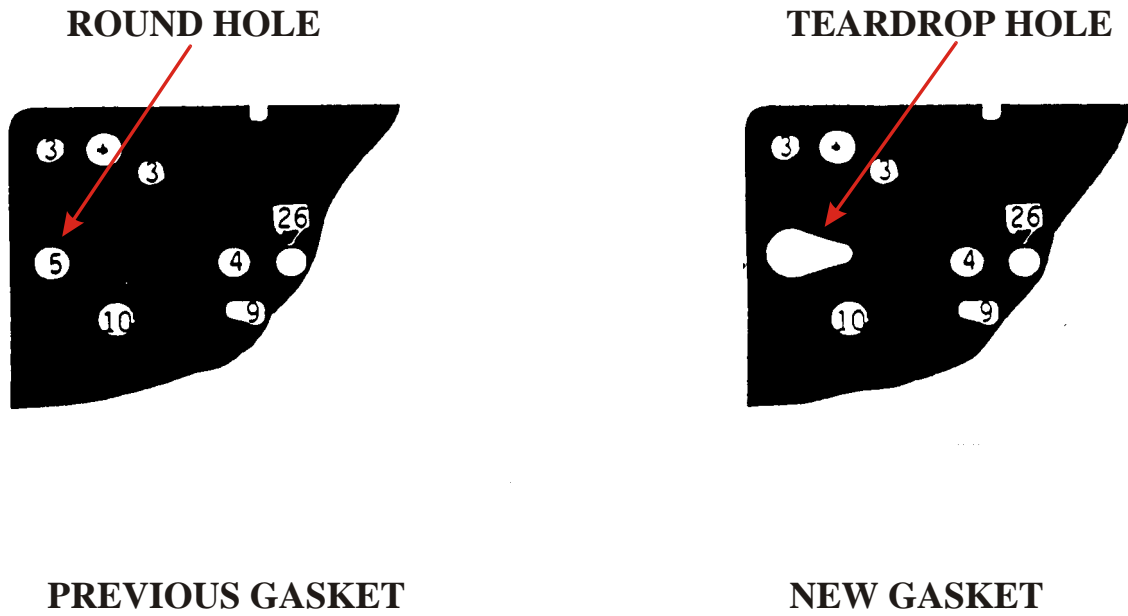


Figure 6

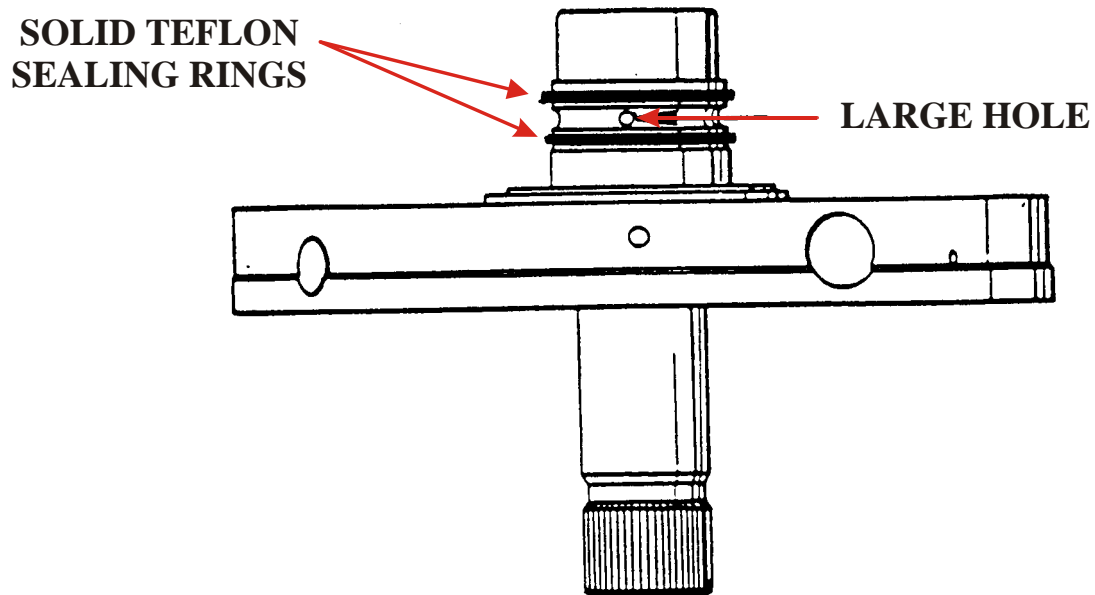


Figure 7