

Symptom-to-Component Chart

Hydraulic System

PROBLEM	REFER TO
Engine runs, but car does not move in any gear	1,3,4,5,18,23,24,25,27
Car moves in 2, but not in S or D.	6,10,12,18,40
Car moves in S or D, but not in 2.	7,13,18,40
Car moves in S, D, or 2, but not in R.	9,11,15,18,26,28,40,55
Poor acceleration	
Engine races when starting off in S:	
— Stall rpm high in S, D and 2	1,3,18,24,25,40,46
— Stall rpm high in S and D	10,12,18
— Stall rpm high in 2	13,18
— Stall rpm normal	2
— Stall rpm low	16,56
Excessive idle vibration	3,23,56
Shift-up speed is too fast, or slow.	55
Jumps from 1st to 3rd in S.	55
Jumps from 1st to 4th in D.	55
Shift-up point too early/late:	
— 1st to 2nd, 2nd to 3rd, 3rd to 4th	55
— 1st to 2nd	55
— 2nd to 3rd	55
— 3rd to 4th	55
Harsh upshift from 1st to 2nd	13,31,22,28,34,36,39,40,41,51,55
Harsh upshift from 2nd to 3rd	14,31,22,29,34,37,39,40,41,42,52,55
Harsh upshift from 3rd to 4th	15,31,22,30,34,38,39,40,41,43,51,55
Harsh downshift from 2nd to 1st	13,31,22,28,34,36,39,40,41,51,55
Harsh downshift from 3rd to 2nd	14,31,22,29,34,37,39,40,41,44,52,55
Harsh downshift from 4th to 3rd	15,31,22,30,32,38,39,40,41,45,51,55
Engine races when shifting from 2nd to 3rd	14,17,22,29,34,37,39,40,41,42,52,55
Engine races when shifting from 3rd to 4th (Shift point OK)	15,17,22,30,34,38,39,40,41,43,51,55

	PROBABLE CAUSE
1	ATF level too low
2	ATF level too high
3	Oil pump seized, gear damaged, foreign material suck in gear
4	Mainshaft damaged
5	Final gear and countershaft worn/damaged
6	1st gears worn/damaged
7	2nd gears worn/damaged
8	3rd gears worn/damaged
9	4th gears worn/damaged
10	Countershaft one-way clutch seized/damaged
11	Reverse gears worn/damaged
12	1st clutch faulty a. Clutch piston stuck b. Foreign material stuck in clutch check valve c. Clutch O-ring worn/damaged d. Clutch disc worn e. Clutch feed pipe/O-ring worn/damaged
13	2nd clutch faulty a. Clutch piston stuck b. Foreign material stuck in clutch check valve c. Clutch O-ring worn/damaged d. Clutch disc worn e. Clutch seal ring seized/damaged
14	3rd clutch faulty a. Clutch piston stuck b. Foreign material stuck in clutch check valve c. Clutch O-ring worn/damaged d. Clutch disc worn e. Clutch feed pipe/O-ring worn/damaged
15	4th clutch faulty a. Clutch piston stuck b. Foreign material stuck in clutch check valve c. Clutch O-ring worn/damaged d. Clutch disc worn e. Clutch feed pipe/O-ring worn/damaged
16	Torque converter one-way clutch seized
17	Transmission throttle control cable misadjusted
18	Control cable misadjusted, cut or damaged
19	Mainshaft/countershaft ball bearing damaged
20	Needle bearing seized
21	Washers/collars seized
22	Clutch clearance incorrect
23	Drive plate faulty or transmission assy improperly installed
24	Regulator valve stuck or spring weak/damaged
25	Oil filter clogged



PROBLEM	REFER TO
Excessive shock when shifting from 2nd to 3rd	14,17,22,29,34,37,39,40,41,42,52,55
Excessive shock when shifting from 3rd to 4th (Shift piont OK)	15,17,22,30,34,38,39,40,41,43,51,55
Car creeps forward in N. (Shift cable adjusted properly.)	2,12,13,14,15,20,21,22
Excessive time lag from N to S/D (Shift cable adjusted properly.)	12,40,41
Excessive time lag from N to R (Shift cable adjusted properly.)	15,26,28
— Abnormal noise in all gears, neutral and park	3,4,19
— Vibration in all gears	23
— Harsh to shift	18,27
— Car has only 4th gear	55
— Transmission has no park	18,27
— Stall rpm is high, but clutch pressure OK in all positions	46
Harsh shift to lock-up clutch	47,50,53,55
Vibration in lock-up mode	48,49,54,55
Lock-up clutch does not engage.	46,47,48,49,50,53,54,55

	PROBABLE CAUSE
26	Servo shaft stuck
27	Manual valve faulty or roller out of place
28	1—2 shift valve faulty
29	2—3 shift valve faulty
30	3—4 shift valve faulty
31	Modulator valve faulty
32	Throttle valve A faulty
34	Throttle valve B faulty
35	1st accumulator faulty
36	2nd accumulator faulty
37	3rd accumulator faulty
38	4th accumulator faulty
39	Clutch pressure control valve faulty
40	Foreign material stuck in separator orifice
41	Foreign material stuck in check ball
42	2nd orifice control faulty
43	3rd orifice control faulty
44	4—2 kickdown valve faulty
45	4—3 kickdown valve faulty
46	Torque converter check valve faulty
47	Lock-up shift valve faulty
48	Lock-up timing valve B faulty
49	Lock-up control valve faulty
50	Lock-up piston in torque converter faulty
51	Shift control solenoid valve A faulty
52	Shift control solenoid valve B faulty
53	Lock-up control solenoid valve A faulty
54	Lock-up control solenoid valve B faulty
55	Electrical system faulty
56	Engine lacks power