SECTION 5

TRANSMISSION / TRANSAXLE

ZF 16HP AUTO TRANSAXLE . . . . . **5A1 – 1**

AISIN AUTO TRANSAXLE . . . . . **5A2 – 1**

FIVE SPEED MANUAL TRANSAXLE (D16, D20) . . . . . **5B1 – 1**

FIVE SPEED MANUAL TRANSAXLE (Y4M) . . . . . **5B2 – 1**

CLUTCH . . . . . **5C – 1**

DEFECT CODE

NATURE CODE

N01	Hard start, no start	N38	Improper synchronizing
N02	Poor idle	N39	Oil diluted
N03	Surge, hesitate, stumble	N41	Spongy pedal
N06	Engine stalled (general)	N43	Excessive shock
N07	Excessive fuel consumption	N44	Poor release
N08	Excessive oil consumption	N46	Misaligned or mismatched
N10	Shift shock	N47	Weak
N12	Flooded, overflowing	N51	Deteriorated
N13	Poor acceleration, uneven acceleration	N52	Distortion, rainbow, waving
N15	Lack of engine power	N55	Rust, corrosion, perforation.
N16	Percolation	N56	Glazed
N17	Improper exhaust gas (black gas, white gas)	N57	Loose, poor fit
N18	Backfire, afterfire	N58	Bubbles
N19	Vapor lock	N59	Vehicle vibration
N20	Blacked	N60	Excessive vibration
N21	Shuddering, pulsation, vibration, chattering	N62	Inaccurate (meter, gauge, etc.)
N22	Slippage (= slipping)	N65	Electrical failures
N23	Difficult engagement	N66	Blown fuse
N24	Difficult disengagement	N67	Warning light on
N25	Abnormal shifts	N68	Intermittent operation
N26	Impossible shifts	N71	Oil leak, oil entering
N27	Squeaking, squealing, abnormal(wind) noise	N72	Water leak, water entering
N28	Dragging	N73	Leaks–other (air, fuel, refrigerant, vacuum)
N29	Pulls	N77	Improper memory
N30	Stalled while driving	N82	Loosening, falling–off, sagged
N31	Stalled while idling	N85	Grabs
N32	Stalled between shifts	N86	Poor maneuverability
N33	Stalling during sudden braking	N91	Interference or hitting
N34	Fails to reach normal operating temperature	N92	Inoperative
N35	RPM too low	N93	High/low operating effort
N36	RPM too high	N94	Special policy
N37	Jumping–out	N99	Undefined

CAUSE CODE

R01	Scored, scratched or chipped	R18	Grounded or shorted
R02	Frozen	R20	Faulty casting
R03	Peeling, come–off	R21	Improper clearance, back lash, free play
R04	Rusty, corroded	R22	Lack of lubricants
R05	Split, cut or torn	R23	Improper welding or soldering, welding or soldering omitted
R06	Broken or cracked	R24	Improper tightening, fit or assembly
R07	Porous, pin holes, cavity	R25	Sticks, binds, seized
R08	Bent, kinked, twisted, distorted, warped or wrinkled	R26	Foreign material, clogged
R09	Stripped – bolts, holes, nuts	R27	Improper sealing, sealer omitted or skipped
R10	Soiled	R28	Improper adjustment
R11	Weakened, loss of tension or resilience (spring, cushion, etc.)	R31	Incorrect part
R12	Abnormal wear	R32	Improperly installed
R13	Out of balance	R33	Improperly routed
R14	Out of round	R34	Missing part
R15	Loose or improper connection	R35	Flaw in material
R16	Open circuit or short circuit	R36	Contaminants
R17	Burned or burned out	R99	Undefined