

HOW TO READ THIS MANUAL

Items 1 to 7 are described below.

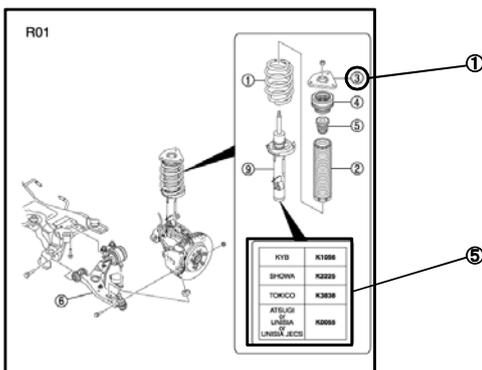
Manual(A-Type)

OPERATION	VARIATION	OPERATION NUMBER	REPAIR TIME	INCLUDES
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	MZR 1.6	B0407ARX	8.3	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 1.5,PCM cover with standard bolts.Without i-stop	B0407GRX	10.7	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	[SKYACTIV-G 1.5,PCM cover with standard bolts,With i-stop][SKYACTIV-G 1.5,PCM cover with shear-off bolts Without i-stop]	B0407BRX	10.5	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 1.5,PCM cover with shear-off bolts,With i-stop	B0407CRX	10.6	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0,PCM cover with standard bolts.Without i-stop	B0407HRX	10.6	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	[SKYACTIV-G 2.0,PCM cover with standard bolts,With i-stop][SKYACTIV-G 2.5]	B0407DRX	10.7	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0,PCM cover with shear-off bolts	B0407ERX	10.8	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	[SKYACTIV-D 1.5][SKYACTIV-D 2.2]	B0407FRX	14.3	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-G 1.5,PCM cover with standard bolts	B0408ARX	3.0	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-G 1.5,PCM cover with shear-off bolts	B0408BRX	3.1	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
CAMSHAFT, R&R	MZR 1.6,Intake camshaft	B0411ARX	1.5	◆Timing chain (B0210), D&C
F00 DIAGNOSIS				
EGI SYSTEM, DRIVE MODE		F0009DX	0.5	
DTC READING BY DIAGNOSTIC TOOL		F9999DX	0.2	
<div style="border: 1px solid black; padding: 2px;"> The labor operation for DIAGNOSTIC TOOLS usage (F9999"--") can be applied only when the diagnosis requires the NGS/WDS/PDS/IDS tester to read the Diagnostic Trouble Code for fuel and emission control system components. </div>				

Manual(B-Type)

OPERATION	VARIATION 1	VARIATION 2	VARIATION 3	VARIATION 4	VARIATION 5	OTHER VARIATION	OPERATION NUMBER	REPAIR TIME	INCLUDES
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-D 1.8						B0407ARX	14.6	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 1.5	6AT					B0407BRX	10.5	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 1.5	6MT					B0407CRX	10.4	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0	With Cylinder Deactivation					B0407DRX	10.7	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0	With Cylinder Deactivation					B0407ERX	10.8	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0	With Cylinder Deactivation					B0407FRX	10.7	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0	Without Cylinder Deactivation					B0407GRX	10.6	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0	Without Cylinder Deactivation					B0407HRX	10.5	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.0	Without Cylinder Deactivation					B0407JRX	10.5	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.5	6AT					B0407KRX	10.7	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
INTAKE AND EXHAUST VALVE SPRING (ALL) R&R	SKYACTIV-G 2.5	6MT					B0407LRX	10.6	◆Timing chain (B0210), R&R◆Cylinder head gasket (B0402), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-D 1.8						B0408ARX	4.0	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-G 1.5						B0408BRX	3.3	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-G 2.0	With Cylinder Deactivation					B0408CRX	3.4	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-G 2.0	Without Cylinder Deactivation					B0408DRX	3.3	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
VALVE ROCKER ARM AND/OR SHAFT (ALL) R&R	SKYACTIV-G 2.5						B0408ERX	3.4	◆Timing chain (B0210), D&C◆Camshaft (B0411), R&R
CAMSHAFT, R&R	SKYACTIV-D 1.8	ALL					B0411ARX	4.0	◆Timing chain (B0210), D&C
F00 DIAGNOSIS									
EGI SYSTEM, DRIVE MODE							F0009ADX	0.5	
DTC READING BY DIAGNOSTIC TOOL							F9999ADX	0.2	
<div style="border: 1px solid black; padding: 2px;"> The labor operation for DIAGNOSTIC TOOLS usage (F9999"--") can be applied only when the diagnosis requires the NGS/WDS/PDS/IDS tester to read the Diagnostic Trouble Code for fuel and emission control system components. </div>									

ILLUSTRATION



① KEY (Illustration Number)

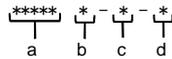
Each illustration is provided with a number called a key (Illustration Number). The function of the key is to connect the illustration with the operation number and repair time, enabling technicians to find the operation number and repair time using the illustration.

Note:

Since illustrations shown in this manual are representative of targeted parts, they may differ from the actual vehicle. For detailed information such as installation position, refer to the Workshop Manual for the corresponding vehicle.

② OPERATION NUMBER

The operation number is an 8-digit code made up of the four parts shown below:



Note:

The first 3 figures stand for the sub-section of the part to be serviced (ex. [B02]: engine front).
The last 2 figures stand for the part to be serviced (ex. [B0210]: timing chain replacement).

a PNC (Part Name Code)

The PNC indicates the part or component that is the subject of the operation. It is central to the operation number and is classified according to functions such as engine, transmission, and brake. This numbering system is applied to all models and model years.

b Specification Variation

This part indicates labor operations which may differ because of difference in vehicle specifications.

c Operation type

The codes are as follows:

- A Adjust
- B Body work
- C Check
- D Diagnose
- G Clean and Repack
- H Overhaul
- M Periodical inspection service, Machine
- P Pre-delivery inspection service, Color coat
- R Remove and Replace
- T Tighten

d Suffix

The codes are as follows:

- T Actual time (Refer to [HOW TO CREATE OPERATION NUMBER - ACTUAL TIME](#))
- X.1-9 Standard Repair

③ REPAIR TIME

Repair time under corresponding conditions is indicated. The time required for each repair item is given in hours and tenths of hours. For example, 0.1 in the table stands for 6 minutes, 0.3 for 18 minutes, and 1.2 for 1 hour 12 minutes.

④ INCLUDES

Work included in the repair procedures is described in categories such as removal/installation, inspection, and adjustment. For details, refer to the Workshop Manual for the corresponding vehicle.

⑤ VENDOR CODE

In the case of a part of the same part number being supplied by more than one vendor, the vendor mark and vendor code are given to the part in the illustration. When filing a warranty claim against such a part, enter the vendor code shown in this manual along with the vendor mark.

⑥ NOTE

This indicates special instructions

⑦ VARIATION

This indicates the applicable conditions of the repair time.

HOW TO REPAIR TIME FRAMEWORK

The repair time includes the following and is indicated using 0.1 hour (six minutes) as the time unit.

1. Repair time

- (1) Each repair time includes all of the time required for making repairs, such as inspection, cleaning, and adjustment. All overhaul repair time includes the time required for removal and re-installation. (The procedures in the workshop manuals are basically followed)

Example

B0101X-H-X ENGINE, OH

I Includes time required for removing and reinstalling engine; cleaning and checking disassembled parts; adjusting ignition timing and idle speed.

- (2) All painting time (SRT) includes the cost of materials and other expenses for a new panel.

2. Allowance time

Allowance time includes the following operation time and contents:

- (1) Time required to move the vehicle in question (drive-in, drive-out, etc.)
 - (2) Time required to assemble necessary tools and parts for work and to return the tools to storage.
 - (3) Time required for testing after repair.
 - (4) Variation resulting from difference in mileage and operating conditions of vehicles.
-

HOW TO MEASURE REPAIR TIME

The repair times are determined based on the following conditions:

1. Technician

A person equivalent to an average technician who has attended training in the repair of Mazda vehicles and one who is not a specialist familiar with only a portion of the repair work.

2. Parts

Genuine parts to be used.

3. Tools

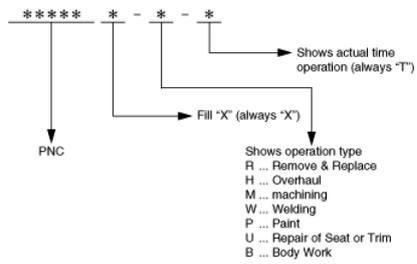
Recommended special service tools and tools normally used by technicians (including power tools).

4. Work procedure

Procedure in the relevant workshop manual or other service literature to be used.

HOW TO CREATE OPERATION NUMBER - ACTUAL TIME

When there is no specified operation number in this manual, make an 8-digit operation number as follows:



When there is no available PNC for the applicable part, use the PNC of the component to which the part is attached. Do not use the D-code of the part or the last five digits of the part number. Refer to Section Y and use the appropriate PNC for a paint problem.

Regarding the following repairs, use the below special PNC.

Perforation Y0200

Refer to section Y02 for an explanation of the coverage.

Water Leak Y0300

Dust Entering / Air Leak Y0400

Rust / Corrosion Y0500

Refer to section Y05 for an explanation of the coverage.

TROUBLE CODE (ALL)

SYMPTOM CODE

ENGINE

START / IDLE

- 01 ENGINE DOSE NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING - WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING - WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

FUEL & OIL CONSUMPTION

- 15 EXCESSIVE FUEL CONSUMPTION
- 16 EXCESSIVE OIL CONSUMPTION
- 17 BLACK SMOKE
- 18 WHITE SMOKE / BLUE SMOKE
- 19 FAILED EMISSION TEST / EXCEED EMISSION STANDARD

BATTERY CHARGE

- 20 UNDERCHARGING / DEAD BATTERY
- 21 OVERCHARGING

CLUTCH, TRANSMISSION, DRIVELINE

MT, MTX

- 22 CLUTCH SLIPPING
- 23 JUMPS OUT OF GEAR
- 24 HARD SHIFTING / NO SHIFTING / IMPROPER SYNCHRONIZATION / GEAR NOISE

AT, ATX

- 25 VEHICLE WILL NOT MOVE / NO SHIFT
- 26 SHIFT SHOCK
- 27 TRANSMISSION SLIPPING / INCORRECT SHIFT POINTS
- 28 WILL NOT LOCK UP (TORQUE CONVERTER)
- 29 IMPROPER LOCK UP POINT (TORQUE CONVERTER)

STEERING, AXLE, CHASSIS

- 30 STEERING WHEEL OFF CENTER
- 31 STEERING SHIMMY
- 32 POOR DRIVE STABILITY / DRIFT TO THE RIGHT OR LEFT
- 33 UNEVEN VEHICLE HEIGHT
- 34 UNUSUAL / UNEVEN TIRE WEAR

BRAKE

- 35 SQUEAK
- 36 INSUFFICIENT BRAKING
- 37 BRAKES GRAB
- 38 BRAKES TOO SENSITIVE
- 39 UNEVEN BRAKING PERFORMANCE / PULL TO THE RIGHT OR LEFT
- 40 BRAKES DRAG

BODY

OPENING / CLOSING OPERATION

- 41 DOES NOT OPEN/DOES NOT UNLOCK
- 42 DOES NOT CLOSE / DOES NOT LOCK
- 43 DOES NOT STAY IN POSITION

COLOR, PAINT, RUST

- 44 BLISTERS
- 45 PEELING / FLAKING
- 46 COLOR MISMATCH

47 GLAZING / HAIRLINE CRACKING
48 DIRT / FOREIGN MATERIAL UNDER SURFACE
49 FADED / DISCOLORED
50 PAINT THIN
51 RUNS / SAGS / OVER SPRAY
52 CHIPPED / PAINT SURFACE DAMAGE
53 RUST / CORROSION / PERFORATION

BODY ELECTRICAL

AUTO CRUISE

54 UNSTABLE SPEED CONTROL
55 MALFUNCTION

AUDIO

56 POOR RECEPTION
57 NOISE
58 OTHER MALFUNCTION IN AUDIO SYSTEM

HEATER / AIR CONDITIONING

59 INSUFFICIENT HEATING
60 IMPROPER TEMPERATURE CONTROL

COMMON

MALFUNCTION

61 DOES NOT SWITCH ON / NO INDICATION / NO OPERATIVE / NO LIGHTING/NO WARNING
62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
63 STOPS IN THE MIDDLE OF OPERATION
64 IMPROPER OPERATION
65 IMPROPER INDICATION
66 SEIZED OR STUCK
67 CANNOT SET / WILL NOT RELEASE
68 POOR WINDOW WIPING
69 WEAK PUMPING / IMPROPER SPRAYING
70 IMPROPER / CHANGING FREE PLAY
71 NO/LATE RETURN TO THE ORIGINAL POSITION
72 HARD TO OPERATE
73 LOOSE
74 POOR MANEUVERABILITY

LEAK, ENTERING & WATER DROP

75 FUEL LEAK
76 OIL LEAK / GREASE LEAK
77 WATER LEAK / COOLANT LEAK
78 AIR / EXHAUST GAS / DUST / LIGHT LEAK
79 CONDENSATION

NOISE & VIBRATION

80 EXCESSIVE OPERATING NOISE
81 RESONANCE NOISE
82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

84 UNUSUAL ODOR
85 BURNT / SMOKE
86 BLOWN FUSE

APPEARANCE

87 SPLIT / CUT / WARP
88 POOR VISIBILITY / DOUBLE VISION / INDICATION NOT CLEAR
89 OUT OF PROPER POSITION

OTHERS

90 INTERFERE WITH OTHER PART
91 FELL OFF
92 BROKEN
93 SEIZED
94 PREMATURE WEAR
95 INCORRECT PARTS INSTALLED AT FACTORY
96 PART NOT INSTALLED AT FACTORY
97 WIND NOISE

98 DIRT / STAIN / SOILED

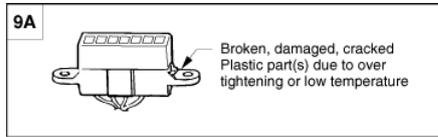
99 SPECIAL CODE

- USE THIS CODE ONLY WHEN MC INSTRUCTS

DAMAGE CODE

MATERIAL

9A BROKEN, DAMAGED, CRACKED



9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED

9C WORN

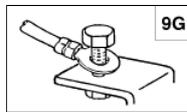
9D SCORED, GALLED, SCRATCHED, NICKED

9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

9F FOGGED, HAZY

WORKMANSHIP

9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN



9H IMPROPER ADJUSTMENT

9J OUT OF BALANCE

9K IMPROPER WELDING, POOR SEALING

9L THREAD FAILURE, FAULTY STITCHING, IMPROPER SEWING

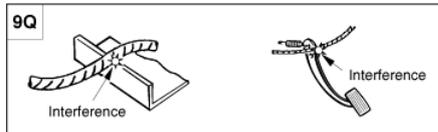
9M IMPROPER MACHINING

9N INCORRECT PARTS INSTALLED AT FACTORY

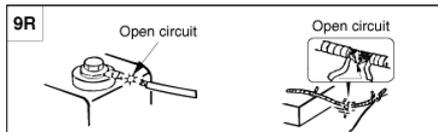
9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

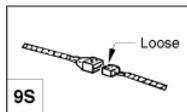
9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS



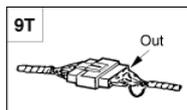
9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS



9S LOOSE COUPLER CONNECTION

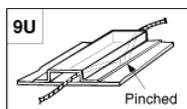


9T CONNECTION(S) CAME OUT OF COUPLER



ELECTRICAL-Continued

9U PINCHED HARNESS



9V INCORRECT WIRING

9W INTERNAL FAILURE

COLOR, PAINT & RUST

9X PAINT FAILURE, FADED, DIRT, STAINED, TARNISHED

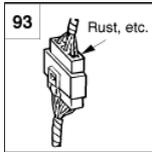
9Y RUST, CORROSION

OTHERS

91 OIL / GREASE LEAK

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE O DIRT / RUST / DUST



94 PIN HOLE, POROUS, CASTING FLAW

95 AIR BUBBLES

96 BURNED, MELTED

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

98 INTERFERE WITH BODY, RATTLING NOISE FROM COUPLER OR HARNESS

99 SPECIAL CODE

- USE UPON MC's INSTRUCTION ONLY

TROUBLE CODE (B section)

START / IDLE

- 01 ENGINE DOSE NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING - WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING - WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

FUEL & OIL CONSUMPTION

- 15 EXCESSIVE FUEL CONSUMPTION
- 16 EXCESSIVE OIL CONSUMPTION
- 17 BLACK SMOKE
- 18 WHITE SMOKE / BLUE SMOKE
- 19 FAILED EMISSION TEST / EXCEED EMISSION STANDARD

HEATER / AIR CONDITIONING

- 59 INSUFFICIENT HEATING

MALFUNCTION

- 66 SEIZED OR STUCK
- 70 IMPROPER / CHANGING FREE PLAY
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 93 SEIZED
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9K IMPROPER WELDING, POOR SEALING
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING
- 9W INTERNAL FAILURE

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (C section)

SYMPTOM CODE

START / IDLE

- 01 ENGINE DOES NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING – WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING – WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

FUEL & OIL CONSUMPTION

- 15 EXCESSIVE FUEL CONSUMPTION
- 16 EXCESSIVE OIL CONSUMPTION
- 17 BLACK SMOKE
- 18 WHITE SMOKE / BLUE SMOKE
- 19 FAILED EMISSION TEST / EXCEED EMISSION STANDARD

HEATER / AIR CONDITIONING

- 59 INSUFFICIENT HEATING

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 93 SEIZED
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9K IMPROPER WELDING, POOR SEALING
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

9W INTERNAL FAILURE

COLOR, PAINT & RUST

9Y RUST, CORROSION

OTHERS

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (D section)

SYMPTOM CODE

START / IDLE

- 01 ENGINE DOES NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING – WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING – WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

FUEL & OIL CONSUMPTION

- 16 EXCESSIVE OIL CONSUMPTION
- 17 BLACK SMOKE
- 18 WHITE SMOKE / BLUE SMOKE
- 19 FAILED EMISSION TEST / EXCEED EMISSION STANDARD

HEATER / AIR CONDITIONING

- 59 INSUFFICIENT HEATING

MALFUNCTION

- 66 SEIZED OR STUCK
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 93 SEIZED
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9K IMPROPER WELDING, POOR SEALING

9M IMPROPER MACHINING

9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

9W INTERNAL FAILURE

COLOR, PAINT & RUST

9Y RUST, CORROSION

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (E section)

SYMPTOM CODE

START / IDLE

- 01 ENGINE DOES NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING - WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING - WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

HEATER / AIR CONDITIONING

- 59 INSUFFICIENT HEATING

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
- 63 STOPS IN THE MIDDLE OF OPERATION
- 64 IMPROPER OPERATION
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 80 EXCESSIVE OPERATING NOISE
- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE
- 86 BLOWN FUSE

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 93 SEIZED
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9K IMPROPER WELDING, POOR SEALING

9M IMPROPER MACHINING

9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

9W INTERNAL FAILURE

COLOR, PAINT & RUST

9Y RUST, CORROSION

OTHERS

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (F section)

SYMPTOM CODE

START / IDLE

- 01 ENGINE DOSE NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING - WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING - WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

FUEL & OIL CONSUMPTION

- 15 EXCESSIVE FUEL CONSUMPTION
- 16 EXCESSIVE OIL CONSUMPTION
- 17 BLACK SMOKE
- 18 WHITE SMOKE / BLUE SMOKE
- 19 FAILED EMISSION TEST / EXCEED EMISSION STANDARD

HEATER / AIR CONDITIONING

- 59 INSUFFICIENT HEATING

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
- 64 IMPROPER OPERATION
- 65 IMPROPER INDICATION
- 69 WEAK PUMPING / IMPROPER SPRAYING
- 70 IMPROPER / CHANGING FREE PLAY
- 71 NO/LATE RETURN TO THE ORIGINAL POSITION
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 75 FUEL LEAK
- 76 OIL LEAK / GREASE LEAK
- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 80 EXCESSIVE OPERATING NOISE
- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 93 SEIZED
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED

9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED

9C WORN

9D SCORED, GALLED, SCRATCHED, NICKED

9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN

9H IMPROPER ADJUSTMENT

9J OUT OF BALANCE

9K IMPROPER WELDING, POOR SEALING

9M IMPROPER MACHINING

9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

9W INTERNAL FAILURE

COLOR, PAINT & RUST

9Y RUST, CORROSION

OTHERS

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

95 AIR BUBBLES

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (G section)

SYMPTOM CODE

START / IDLE

- 01 ENGINE DOES NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

DRIVEABILITY

- 04 ENGINE STALLS WHILE DRIVING - WILL NOT RESTART
- 05 ENGINE STALLS WHILE DRIVING - WILL RESTART
- 06 RPM DOES NOT INCREASE
- 07 RPM DOES NOT DECREASE
- 08 HESITATION / SURGING / MISFIRE
- 09 ENGINE OVERHEATS
- 10 ENGINE DOES NOT REACH OPERATING TEMP
- 11 ENGINE KNOCKING
- 12 ENGINE BACKFIRE / AFTERFIRE
- 13 RUN-ON / DIESELING
- 14 LACK OF POWER

FUEL & OIL CONSUMPTION

- 15 EXCESSIVE FUEL CONSUMPTION
- 17 BLACK SMOKE
- 18 WHITE SMOKE / BLUE SMOKE
- 19 FAILED EMISSION TEST / EXCEED EMISSION STANDARD

BATTERY CHARGE

- 20 UNDERCHARGING / DEAD BATTERY
- 21 OVERCHARGING

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
- 63 STOPS IN THE MIDDLE OF OPERATION
- 64 IMPROPER OPERATION
- 65 IMPROPER INDICATION
- 69 WEAK PUMPING / IMPROPER SPRAYING
- 71 NO/LATE RETURN TO THE ORIGINAL POSITION
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK

NOISE & VIBRATION

- 80 EXCESSIVE OPERATING NOISE
- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE
- 86 BLOWN FUSE

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9K IMPROPER WELDING, POOR SEALING
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

9W INTERNAL FAILURE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (H section)

SYMPTOM CODE

DRIVEABILITY

05 ENGINE STALLS WHILE DRIVING - WILL RESTART

CLUTCH, TRANSMISSION, DRIVELINE

22 CLUTCH SLIPPING

24 HARD SHIFTING / NO SHIFTING / IMPROPER SYNCHRONIZATION / GEAR NOISE

MALFUNCTION

70 IMPROPER / CHANGING FREE PLAY

71 NO/LATE RETURN TO THE ORIGINAL POSITION

72 HARD TO OPERATE

73 LOOSE

LEAK, ENTERING & WATER DROP

76 OIL LEAK / GREASE LEAK

NOISE & VIBRATION

81 RESONANCE NOISE

82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)

83 UNUSUAL VIBRATION / CHATTER / JUDDER

OTHERS

90 INTERFERE WITH OTHER PART

91 FELL OFF

92 BROKEN

93 SEIZED

94 PREMATURE WEAR

DAMAGE CODE

MATERIAL

9A BROKEN, DAMAGED, CRACKED

9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED

9C WORN

9D SCORED, GALLED, SCRATCHED, NICKED

WORKMANSHIP

9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN

9H IMPROPER ADJUSTMENT

9J OUT OF BALANCE

9K IMPROPER WELDING, POOR SEALING

9M IMPROPER MACHINING

9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

COLOR, PAINT & RUST

9Y RUST, CORROSION

OTHERS

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (J section)

SYMPTOM CODE

CLUTCH, TRANSMISSION, DRIVELINE

- 23 JUMPS OUT OF GEAR
- 24 HARD SHIFTING / NO SHIFTING / IMPROPER SYNCHRONIZATION / GEAR NOISE
- 26 SHIFT SHOCK

MALFUNCTION

- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 94 PIN HOLE, POROUS, CASTING FLAW
- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (K section)

SYMPTOM CODE

CLUTCH, TRANSMISSION, DRIVELINE

- 22 CLUTCH SLIPPING
- 25 VEHICLE WILL NOT MOVE / NO SHIFT
- 26 SHIFT SHOCK
- 27 TRANSMISSION SLIPPING / INCORRECT SHIFT POINTS
- 28 WILL NOT LOCK UP (TORQUE CONVERTER)
- 29 IMPROPER LOCK UP POINT (TORQUE CONVERTER)

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
- 64 IMPROPER OPERATION
- 72 HARD TO OPERATE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING
- 9W INTERNAL FAILURE

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 94 PIN HOLE, POROUS, CASTING FLAW
- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (L section)

SYMPTOM CODE

MALFUNCTION

73 LOOSE

LEAK, ENTERING & WATER DROP

76 OIL LEAK / GREASE LEAK

NOISE & VIBRATION

81 RESONANCE NOISE

82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)

83 UNUSUAL VIBRATION / CHATTER / JUDDER

OTHERS

90 INTERFERE WITH OTHER PART

91 FELL OFF

DAMAGE CODE

MATERIAL

9A BROKEN, DAMAGED, CRACKED

9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORME

9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN

9J OUT OF BALANCE

9P PARTS NOT INSTALLED AT FACTORY

COLOR, PAINT & RUST

9Y RUST, CORROSION

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (M section)

SYMPTOM CODE

STEERING, AXLE, CHASSIS

- 31 STEERING SHIMMY
- 32 POOR DRIVE STABILITY / DRIFT TO THE RIGHT OR LEFT
- 33 UNEVEN VEHICLE HEIGHT
- 34 UNUSUAL / UNEVEN TIRE WEAR

MALFUNCTION

- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING
- 9W INTERNAL FAILURE

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 94 PIN HOLE, POROUS, CASTING FLAW
- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (N section)

SYMPTOM CODE

STEERING, AXLE, CHASSIS

- 30 STEERING WHEEL OFF CENTER
- 31 STEERING SHIMMY
- 32 POOR DRIVE STABILITY / DRIFT TO THE RIGHT OR LEFT

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 70 IMPROPER / CHANGING FREE PLAY
- 72 HARD TO OPERATE
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

APPEARANCE

- 87 SPLIT / CUT / WARP

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING
- 9W INTERNAL FAILURE

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 91 OIL / GREASE LEAK
- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 94 PIN HOLE, POROUS, CASTING FLAW
- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (P section)

SYMPTOM CODE

BRAKE

- 35 SQUEAK
- 36 INSUFFICIENT BRAKING
- 37 BRAKES GRAB
- 38 BRAKES TOO SENSITIVE
- 39 UNEVEN BRAKING PERFORMANCE / PULL TO THE RIGHT OR LEFT
- 40 BRAKES DRAG

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 64 IMPROPER OPERATION
- 70 IMPROPER / CHANGING FREE PLAY
- 71 NO/LATE RETURN TO THE ORIGINAL POSITION
- 72 HARD TO OPERATE
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 94 PREMATURE WEAR

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9K IMPROPER WELDING, POOR SEALING
- 9L THREAD FAILURE, FAULTY STITCHING, IMPROPER SEWING
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING
- 9W INTERNAL FAILURE

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 91 OIL / GREASE LEAK
- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

95 AIR BUBBLES

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (Q section)

SYMPTOM CODE

STEERING, AXLE, CHASSIS

- 31 STEERING SHIMMY
- 32 POOR DRIVE STABILITY / DRIFT TO THE RIGHT OR LEFT
- 33 UNEVEN VEHICLE HEIGHT
- 34 UNUSUAL / UNEVEN TIRE WEAR

MALFUNCTION

- 73 LOOSE
- 74 POOR MANEUVERABILITY

LEAK, ENTERING & WATER DROP

- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 84 UNUSUAL ODOR

APPEARANCE

- 87 SPLIT / CUT / WARP

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 94 PIN HOLE, POROUS, CASTING FLAW
- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (R section)

SYMPTOM CODE

STEERING, AXLE, CHASSIS

- 31 STEERING SHIMMY
- 32 POOR DRIVE STABILITY / DRIFT TO THE RIGHT OR LEFT
- 33 UNEVEN VEHICLE HEIGHT
- 34 UNUSUAL / UNEVEN TIRE WEAR

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
- 63 STOPS IN THE MIDDLE OF OPERATION
- 64 IMPROPER OPERATION
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING
- 9W INTERNAL FAILURE

COLOR, PAINT & RUST

- 9Y RUST, CORROSION

OTHERS

- 91 OIL / GREASE LEAK
- 92 SEIZED, BOUND, STUCK
- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 94 PIN HOLE, POROUS, CASTING FLAW
- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (S section)

SYMPTOM CODE

OPENING / CLOSING OPERATION

- 41 DOES NOT OPEN/DOES NOT UNLOCK
- 42 DOES NOT CLOSE / DOES NOT LOCK
- 43 DOES NOT STAY IN POSITION

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 63 STOPS IN THE MIDDLE OF OPERATION
- 64 IMPROPER OPERATION
- 68 POOR WINDOW WIPING
- 69 WEAK PUMPING / IMPROPER SPRAYING
- 71 NO/LATE RETURN TO THE ORIGINAL POSITION
- 72 HARD TO OPERATE
- 74 POOR MANEUVERABILITY

LEAK, ENTERING & WATER DROP

- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK
- 79 CONDENSATION

NOISE & VIBRATION

- 81 RESONANCE NOISE
- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

APPEARANCE

- 87 SPLIT / CUT / WARP
- 88 POOR VISIBILITY / DOUBLE VISION / INDICATION NOT CLEAR
- 89 OUT OF PROPER POSITION

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY
- 97 WIND NOISE
- 98 DIRT / STAIN / SOILED

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED
- 9F FOGGED, HAZY

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9J OUT OF BALANCE
- 9K IMPROPER WELDING, POOR SEALING
- 9L THREAD FAILURE, FAULTY STITCHING, IMPROPER SEWING
- 9M IMPROPER MACHINING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9V INCORRECT WIRING

COLOR, PAINT & RUST

- 9X PAINT FAILURE, FADED, DIRT, STAINED, TARNISHED

9Y RUST, CORROSION

OTHERS

91 OIL / GREASE LEAK

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

95 AIR BUBBLES

96 BURNED, MELTED

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (T section)

SYMPTOM CODE

OPENING / CLOSING OPERATION

- 41 DOES NOT OPEN/DOES NOT UNLOCK
- 42 DOES NOT CLOSE / DOES NOT LOCK

COLOR, PAINT, RUST

- 49 FADED / DISCOLORED
- 53 RUST / CORROSION / PERFORATION

AUTO CRUISE

- 54 UNSTABLE SPEED CONTROL
- 55 MALFUNCTION

AUDIO

- 56 POOR RECEPTION
- 57 NOISE
- 58 OTHER MALFUNCTION IN AUDIO SYSTEM

MALFUNCTION

- 61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING
- 62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON
- 63 STOPS IN THE MIDDLE OF OPERATION
- 64 IMPROPER OPERATION
- 65 IMPROPER INDICATION
- 66 SEIZED OR STUCK
- 67 CANNOT SET / WILL NOT RELEASE
- 68 POOR WINDOW WIPING
- 69 WEAK PUMPING / IMPROPER SPRAYING
- 70 IMPROPER / CHANGING FREE PLAY
- 71 NO/LATE RETURN TO THE ORIGINAL POSITION
- 73 LOOSE

LEAK, ENTERING & WATER DROP

- 76 OIL LEAK / GREASE LEAK
- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

NOISE & VIBRATION

- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)
- 83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

- 85 BURNT / SMOKE
- 86 BLOWN FUSE

APPEARANCE

- 87 SPLIT / CUT / WARP
- 88 POOR VISIBILITY / DOUBLE VISION / INDICATION NOT CLEAR
- 89 OUT OF PROPER POSITION

OTHERS

- 90 INTERFERE WITH OTHER PART
- 91 FELL OFF
- 92 BROKEN
- 95 INCORRECT PARTS INSTALLED AT FACTORY
- 96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

9W INTERNAL FAILURE

COLOR, PAINT & RUST

9Y RUST, CORROSION

OTHERS

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

96 BURNED, MELTED

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

98 INTERFERE WITH BODY, RATTLING NOISE FROM COUPLER OR HARNESS

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (U section)

SYMPTOM CODE

DRIVEABILITY

05 ENGINE STALLS WHILE DRIVING – WILL RESTART

HEATER / AIR CONDITIONING

59 INSUFFICIENT HEATING

60 IMPROPER TEMPERATURE CONTROL

MALFUNCTION

61 DOES NOT SWITCH ON / NO INDICATION / INOPERATIVE / NO LIGHTING/NO WARNING

62 DOES NOT SWITCH OFF / INDICATOR STAYS ON / OPERATION STAYS ON / LIGHT STAYS ON / WARNING LIGHT STAYS ON

64 IMPROPER OPERATION

72 HARD TO OPERATE

73 LOOSE

LEAK, ENTERING & WATER DROP

76 OIL LEAK / GREASE LEAK

77 WATER LEAK / COOLANT LEAK

78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

79 CONDENSATION

NOISE & VIBRATION

80 EXCESSIVE OPERATING NOISE

82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)

83 UNUSUAL VIBRATION / CHATTER / JUDDER

ODOR, BURNT

84 UNUSUAL ODOR

OTHERS

90 INTERFERE WITH OTHER PART

91 FELL OFF

92 BROKEN

95 INCORRECT PARTS INSTALLED AT FACTORY

96 PART NOT INSTALLED AT FACTORY

DAMAGE CODE

MATERIAL

9A BROKEN, DAMAGED, CRACKED

9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED

9C WORN

9D SCORED, GALLED, SCRATCHED, NICKED

9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN

9J OUT OF BALANCE

9K IMPROPER WELDING, POOR SEALING

9N INCORRECT PARTS INSTALLED AT FACTORY

9P PARTS NOT INSTALLED AT FACTORY

ELECTRICAL

9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS

9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS

9S LOOSE COUPLER CONNECTION

9T CONNECTION(S) CAME OUT OF COUPLER

9U PINCHED HARNESS

9V INCORRECT WIRING

COLOR, PAINT & RUST

9W INTERNAL FAILURE

9Y RUST, CORROSION

OTHERS

92 SEIZED, BOUND, STUCK

93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST

94 PIN HOLE, POROUS, CASTING FLAW

96 BURNED, MELTED

97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (Y section)

SYMPTOM CODE

COLOR, PAINT, RUST

- 44 BLISTERS
- 45 PEELING / FLAKING
- 46 COLOR MISMATCH
- 47 GLAZING / HAIRLINE CRACKING
- 48 DIRT / FOREIGN MATERIAL UNDER SURFACE
- 49 FADED / DISCOLORED
- 50 PAINT THIN
- 51 RUNS / SAGS / OVER SPRAY
- 52 CHIPPED / PAINT SURFACE DAMAGE
- 53 RUST / CORROSION / PERFORATION

LEAK, ENTERING & WATER DROP

- 77 WATER LEAK / COOLANT LEAK
- 78 AIR / EXHAUST GAS / DUST / LIGHT LEAK

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED
- 9B BENT, KINKED, TWISTED, DISTORTED, WARPED, DEFORMED
- 9C WORN
- 9D SCORED, GALLED, SCRATCHED, NICKED
- 9E DETERIORATED, WEAKENED, SOFTENED, FATIGUED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN
- 9H IMPROPER ADJUSTMENT
- 9K IMPROPER WELDING, POOR SEALING
- 9N INCORRECT PARTS INSTALLED AT FACTORY
- 9P PARTS NOT INSTALLED AT FACTORY

COLOR, PAINT & RUST

- 9X PAINT FAILURE, FADED, DIRT, STAINED, TARNISHED
- 9Y RUST, CORROSION

OTHERS

- 97 IMPROPER CLEARANCE, OVER / UNDER SIZE

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

TROUBLE CODE (Z section)

SYMPTOM CODE

START / IDLE

- 01 ENGINE DOES NOT START
- 02 ENGINE HARD START
- 03 ROUGH IDLE

BATTERY CHARGE

- 20 UNDERCHARGING / DEAD BATTERY

MALFUNCTION

- 64 IMPROPER OPERATION
- 65 IMPROPER INDICATION

NOISE & VIBRATION

- 82 UNUSUAL NOISE (excl. ENGINE KNOCKING, BRAKE SQUEAKING, OPERATION NOISE, RESONANCE NOISE)

ODOR, BURNT

- 84 UNUSUAL ODOR
- 85 BURNT / SMOKE
- 86 BLOWN FUSE

OTHERS

- 92 BROKEN

DAMAGE CODE

MATERIAL

- 9A BROKEN, DAMAGED, CRACKED

WORKMANSHIP

- 9G IMPROPER ASSEMBLY, IMPROPER TORQUE, BOLTS / NUTS LOOSEN

ELECTRICAL

- 9Q SHORT CIRCUIT, DAMAGED INSULATION, SHORTED AGAINST BODY OR MOVING PARTS
- 9R OPEN CIRCUIT, HIGH RESISTANCE, FATIGUE OPEN CIRCUIT DUE TO VIBRATION OF HARNESS
- 9S LOOSE COUPLER CONNECTION
- 9T CONNECTION(S) CAME OUT OF COUPLER
- 9U PINCHED HARNESS
- 9V INCORRECT WIRING

OTHERS

- 93 FOREIGN MATERIAL, PLUGGED, CLOGGED, CARBON DEPOSIT, POOR CONTACT DUE TO DIRT / RUST / DUST
- 98 INTERFERE WITH BODY, RATTLING NOISE FROM COUPLER OR HARNESS

* The codes on this page will cover most of the parts, components, or systems contained in this Section. However, if suitable codes cannot be found, refer to the complete code chart in [TROUBLE CODE \(ALL\)](#).

LOCATION CODE (ALL)

S section

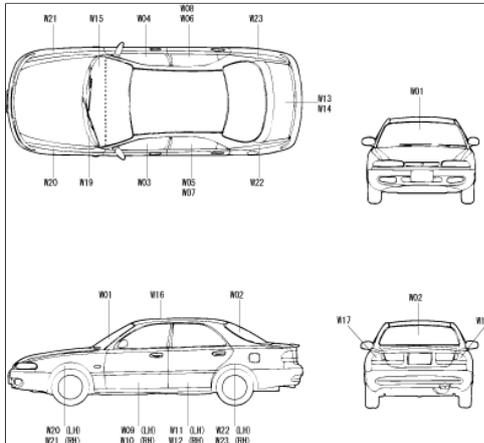
DUST ENTERING / AIR LEAK / WATER LEAK

SPECIAL PART NUMBERS

DUST OR AIRLEAK 5555-AU-001

WATER LEAK 5555-WA-001

These numbers should be used in accordance with the distributor's instructions.



W01 WINDOW-FRONT

W02 WINDOW-REAR

W03 WINDOW-LH FRONT DOOR

W04 WINDOW-RH FRONT DOOR

W05 WINDOW-LH REAR DOOR

W06 WINDOW-RH REAR DOOR

W07 WINDOW-LH SIDE

W08 WINDOW-RH SIDE

W09 DOOR-LH FRONT

W10 DOOR-RH FRONT

W11 DOOR-LH REAR

W12 DOOR-RH REAR

W13 TRUNK LID

W14 REAR GATE

W15 DASH

W16 SUNROOF

W17 COMBINATION LAMP-LH

W18 COMBINATION LAMP- RH

W19 COWL PLATE

W20 WHEEL HOUSE-LH FRONT

W21 WHEEL HOUSE-RH FRONT

W22 WHEEL HOUSE-LH REAR

W23 WHEEL HOUSE-RH REAR

LHD-LEFT

RHD-RIGHT

FRT-FRONT

RER-REAR

LFR-LEFT FRONT

RFR-RIGHT FRONT

LRR-LEFT REAR

RRR-RIGHT REAR

LWR-LOWER

UPR-UPPER

Y section

PAINT / RUST / CORROSION / PERFORATION

Note: Prior authorization is required for repairs to paint or for correction of rust/corrosion/perforation.

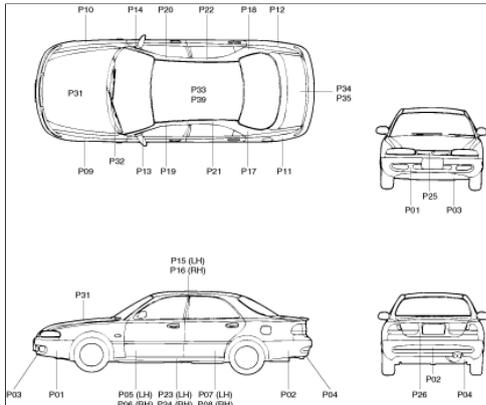
SPECIAL PART NUMBERS

PAINT 5555-PT-001

RUST 5555-RS-001

PERFORATION 5555-EN-001

These numbers should be used in accordance with the distributor's instructions.



P01 BUMPER-FRONT

P02 BUMPER-REAR

P03 SKIRT-FRONT

P04 SKIRT-REAR

P05 DOOR-LH FRONT

P06 DOOR-RH FRONT

P07 DOOR-LH REAR

P08 DOOR-RH REAR

P09 FENDER-LH FRONT

P10 FENDER-RH FRONT

P11 FENDER-LH REAR

P12 FENDER-RH REAR

P13 PILLAR-LH FRONT

P14 PILLAR-RH FRONT

P15 PILLAR-LH CENTER

P16 PILLAR-RH CENTER

P17 PILLAR-LH REAR

P18 PILLAR-RH REAR

P19 DOOR WINDOW FRAME-LH FRONT

P20 DOOR WINDOW FRAME-RH FRONT

P21 DOOR WINDOW FRAME-LH REAR

P22 DOOR WINDOW FRAME-RH REAR

P23 BODY SILL-LH

P24 BODY SILL-RH

P25 PANEL-FRONT

P26 PANEL-REAR

P31 HOOD

P32 COWL PANEL

P33 ROOF

P34 TRUNK LID

P35 TAILGATE

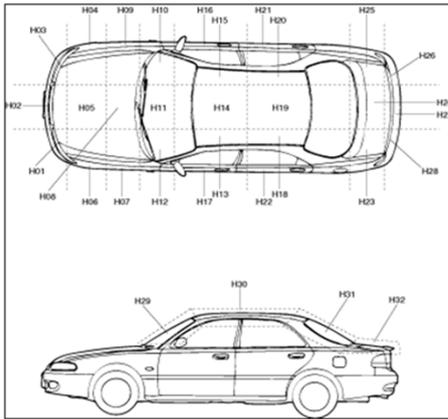
P36 FLOOR PANEL

P38 WHOLE SURFACE

P39 SLIDING SUNROOF

Z section

WIRING HARNESS REPAIRS



- H01 SHROUD-LH FRONT
- H02 SHROUD-CENTER
- H03 SHROUD-RH
- H04 WHEEL APRON-RH FRONT
- H05 ENGINE FRONT
- H06 WHEEL APRON-LH FRONT
- H07 WHEEL APRON-LH DASHBOARD SIDE
- H08 ENGINE-DASHBOARD SIDE
- H09 WHEEL APRON-RH DASHBOARD SIDE
- H10 DASHBOARD & RH INSTRUMENT PANEL-RH
- H11 DASHBOARD & RH INSTRUMENT PANEL-CENTER
- H12 DASHBOARD & RH INSTRUMENT PANEL-LH
- H13 FLOOR-LH FRONT
- H14 FLOOR-CENTER FRONT
- H15 FLOOR-RH FRONT
- H16 DOOR-RH FRONT
- H17 DOOR-LH FRONT
- H18 FLOOR-LH REAR
- H19 FLOOR-CENTER REAR
- H20 FLOOR-RH REAR
- H21 DOOR-RH REAR
- H22 DOOR-LH REAR
- H23 TRUNK-LH FRONT
- H24 TRUNK-CENTER FRONT
- H25 TRUNK-RH FRONT
- H26 TRUNK-RH REAR
- H27 TRUNK-CENTER REAR
- H28 TRUNK-LH REAR
- H29 FRONT PILLAR
- H30 ROOF
- H31 REAR WINDOW
- H32 TRUNK LID
- LHD-LEFT
- RHD-RIGHT
- FRT-FRONT
- RER-REAR
- LFR-LEFT FRONT
- RFR-RIGHT FRONT
- LRR-LEFT REAR
- RRR-RIGHT REAR
- LWR-LOWER
- UPR-UPPER

LOCATION CODE (S section)

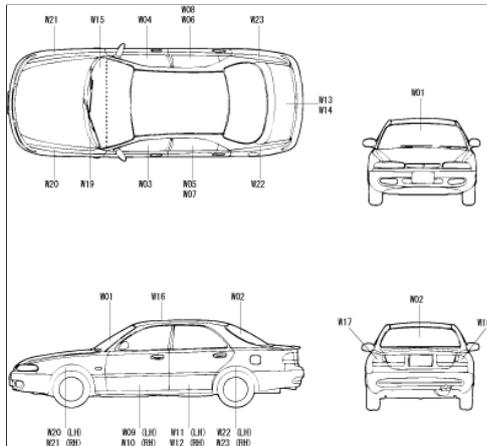
DUST ENTERING / AIR LEAK / WATER LEAK

SPECIAL PART NUMBERS

DUST OR AIRLEAK 5555-AU-001

WATER LEAK 5555-WA-001

These numbers should be used in accordance with the distributor's instructions.



W01 WINDOW-FRONT

W02 WINDOW-REAR

W03 WINDOW-LH FRONT DOOR

W04 WINDOW-RH FRONT DOOR

W05 WINDOW-LH REAR DOOR

W06 WINDOW-RH REAR DOOR

W07 WINDOW-LH SIDE

W08 WINDOW-RH SIDE

W09 DOOR-LH FRONT

W10 DOOR-RH FRONT

W11 DOOR-LH REAR

W12 DOOR-RH REAR

W13 TRUNK LID

W14 REAR GATE

W15 DASH

W16 SUNROOF

W17 COMBINATION LAMP-LH

W18 COMBINATION LAMP- RH

W19 COWL PLATE

W20 WHEEL HOUSE-LH FRONT

W21 WHEEL HOUSE-RH FRONT

W22 WHEEL HOUSE-LH REAR

W23 WHEEL HOUSE-RH REAR

LHD-LEFT

RHD-RIGHT

FRT-FRONT

RER-REAR

LFR-LEFT FRONT

RFR-RIGHT FRONT

LRR-LEFT REAR

RRR-RIGHT REAR

LWR-LOWER

UPR-UPPER

LOCATION CODE (Y section)

PAINT / RUST / CORROSION / PERFORATION

Note: Prior authorization is required for repairs to paint or for correction of rust/corrosion/perforation.

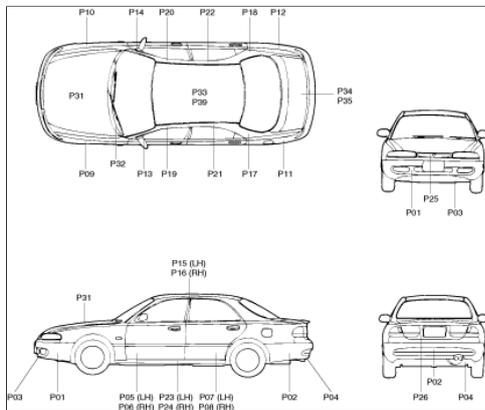
SPECIAL PART NUMBERS

PAINT 5555-PT-001

RUST 5555-RS-001

PERFORATION 5555-EN-001

These numbers should be used in accordance with the distributor's instructions.



P01 BUMPER-FRONT

P02 BUMPER-REAR

P03 SKIRT-FRONT

P04 SKIRT-REAR

P05 DOOR-LH FRONT

P06 DOOR-RH FRONT

P07 DOOR-LH REAR

P08 DOOR-RH REAR

P09 FENDER-LH FRONT

P10 FENDER-RH FRONT

P11 FENDER-LH REAR

P12 FENDER-RH REAR

P13 PILLAR-LH FRONT

P14 PILLAR-RH FRONT

P15 PILLAR-LH CENTER

P16 PILLAR-RH CENTER

P17 PILLAR-LH REAR

P18 PILLAR-RH REAR

P19 DOOR WINDOW FRAME-LH FRONT

P20 DOOR WINDOW FRAME-RH FRONT

P21 DOOR WINDOW FRAME-LH REAR

P22 DOOR WINDOW FRAME-RH REAR

P23 BODY SILL-LH

P24 BODY SILL-RH

P25 PANEL-FRONT

P26 PANEL-REAR

P31 HOOD

P32 COWL PANEL

P33 ROOF

P34 TRUNK LID

P35 TAILGATE

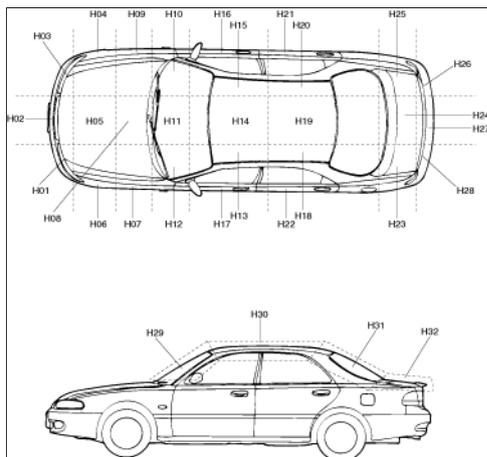
P36 FLOOR PANEL

P38 WHOLE SURFACE

P39 SLIDING SUNROOF

LOCATION CODE (Z section)

WIRING HARNESS REPAIRS



H01 SHROUD-LH FRONT

H02 SHROUD-CENTER

H03 SHROUD-RH

H04 WHEEL APRON-RH FRONT

H05 ENGINE FRONT

H06 WHEEL APRON-LH FRONT

H07 WHEEL APRON-LH DASHBOARD SIDE

H08 ENGINE-DASHBOARD SIDE

H09 WHEEL APRON-RH DASHBOARD SIDE

H10 DASHBOARD & RH INSTRUMENT PANEL-RH

H11 DASHBOARD & RH INSTRUMENT PANEL-CENTER

H12 DASHBOARD & RH INSTRUMENT PANEL-LH

H13 FLOOR-LH FRONT

H14 FLOOR-CENTER FRONT

H15 FLOOR-RH FRONT

H16 DOOR-RH FRONT

H17 DOOR-LH FRONT

H18 FLOOR-LH REAR

H19 FLOOR-CENTER REAR

H20 FLOOR-RH REAR

H21 DOOR-RH REAR

H22 DOOR-LH REAR

H23 TRUNK-LH FRONT

H24 TRUNK-CENTER FRONT

H25 TRUNK-RH FRONT

H26 TRUNK-RH REAR

H27 TRUNK-CENTER REAR

H28 TRUNK-LH REAR

H29 FRONT PILLAR

H30 ROOF

H31 REAR WINDOW

H32 TRUNK LID

LHD-LEFT

RHD-RIGHT

FRT-FRONT

RER-REAR

LFR-LEFT FRONT

RFR-RIGHT FRONT

LRR-LEFT REAR

RRR-RIGHT REAR

LWR-LOWER

UPR-UPPER