SPECIFICATIONS

MULTIFUNCTION SWITCH

Items	Specifications
Rated voltage	DC 12 V
Operating temperature range	-30°C ~ +80°C (-22 ~ +176°F)
Rated load Dimmer & passing switch Lighting switch Turn signal & lane change switch Front fog lamp switch Wiper & mist switch Washer switch Variable intermittent volume switch Horn switch Rear wiper & washer switch (5doors)	High : 1A (Relay load) Low : 1A (Relay load) Passing : 1A (Relay load) Lighting : 1A (Relay load) 6.6±0.5A (Lamp load) 1A (Relay load) Low, High : 4.5A (Motor load) Intermittent : 0.22±0.05A (Relay load) Lock : Max. 28A (Motor load) Mist : 4.5A (Motor load) 4A (Motor load) Max. 25mA 1A (Relay load) Rear wiper : 200mA (Relay load) Rear washer : 4A (Motor load)

INSTRUMENTS AND WARNING SYSTEM

Warning lamps	Bulb wattage (W)	Color
Illumination	3.4W (4EA) 1.4W (3EA)	White green
High beam	1.4	Blue
Low fuel	1.4	Amber
Turn signal (LH, RH)	1.4	Green
Battery (charge)	1.4	Red
Oil pressure	1.4	Red
Air bag	1.4	Red
Parking brake	1.4	Red
Seat belt	1.4	Red
Check engine	1.4	Amber
ABS	1.4	Amber
Door ajar	1.4	Red

Trunk lid open	1.4	Amber
Immobilizer	1.4	Amber
OD OFF	1.4	Amber
HOLD	1.4	Amber
Front fog lamp	1.4	Green
Cruise	1.4	Green
TCS	1.4	Amber
TCS OFF	1.4	Amber
P.N.D.3.2.L	1.4	Green
R	1.4	Amber

INDICATORS AND GAUGE

Items | **Specifications**

Speedometer

Type

- Cross-coil type

Input spec.

- Hall IC type : 4 pulses/rev.

Indication

- Km/h : 637rpm x 4 pulses/rev. indicates 60Km/h
- MPH : 1026 rpm x 4 pulses/rev. indicates 60MPH

Standard values

Velocity (km/h)	20	40	60	80	100
Tolerance (km/h)	±2.4	±2.4	±2.4	±2.7	±2.7
Velocity (km/h)	120	140	160	180	200
Tolerance (km/h)	±3.2	±3.2	±3.7	±3.7	±4.0

Velocity (MPH)	10	20	40	60	80	100	120	Remark
Tolerance (MPH)	±1.5	±1.5	±1.5	±1.7	±2.0	±2.3	±2.5	U.S.A

- Tap the speedometer to prevent hysterisis effects during inspection.

Tachometer

Type

- Cross-coil type (4cyl : 2pulses/rev)

Standard values

Revolution (RPM)	1,000	2,000	3,000	4,000	5,000	6,000	7,000	Remark
Tolerance (RPM)	±100	±125	±150	±150	±150	±180	±210	Gasoline

- Tap the tachometer to prevent hysterisis effects during inspection.

Fuel gauge

Type

- Cross-coil type

Standard values

Level	Gauge	
	Resistance (Ω)	Gauge angle (°)
E (Empty)	184	-45 ± 2.4
Low fuel warning	170	-41 ± 2.5
1/2	66	0 ± 2.4
F (Full)	15	45 ± 2.4

1/2	66	0 ± 2.4
F (Full)	15	45 ± 2.4

o Inspection order : E → F → E

Temperature gauge

Type

o Cross-coil type

Standard values

Temperature	Angle (°)	Resistance (Ω)
60°C	-43 ± 2.4	128
85°C	-7 ± 2.4	53.8
110°C	-7 ± 2.4	25.8
125°C	40 ± 2.4	17.1
Red zone (over 125°C)	45 ± 2.4	16.9

o Inspection order : OFF → C → H

LIGHTING SYSTEM

Items	Bulb wattage (W)
Head lamp	55W /55W (High / Low beam)
Front turn signal lamp	27W
Front position lamp	5W
Front fog lamp	5W
Rear combination lamps Tail/stop lamp Back up lamp Turn signal lamp	 8W / 27W 16W 27W
Side marker lamp	5W
Luggage lamp	5W
Room lamp	10W
Center high mounted stop lamp	4 Door : 27W (Bulb type), 3.56W (LED) 5 Door : 2.6W (LED)
Map lamp	10W x 2
License plate lamp	5W

AUDIO

Items	H220 (H240)	H260 (H290)
Rated output	Max. 20W x 2 (Max. 20W x 4)	Max. 20W x 4
Load impedance	4Ω x 4	4Ω x 4
Band	AM/FM, LW/MW/FM	AM/FM, LW/MW/FM
Tuning type	PLL Synthesized type	PLL Synthesized type

Dark current	Max. 2mA	Max. 3.8mA
Frequency range / Channel	AM : 530 ~ 1710KHZ/10 KHZ	AM : 530 ~ 1710KHZ/10 KHZ
	FM : 87.9 ~ 107.9MHZ/200 KHZ	FM : 87.9 ~ 107.9 MHZ/200KHZ

WINDSHIELD WIPER AND WASHER

Items	Specifications
Windshield wiper motor Speed/current at 10kg·cm load test (1.0 Nm, 0.7 lb·ft) Speed/current at 40kg·cm load test (4.0 Nm, 2.9 lb·ft) Torque when locking	Low : 44~52 rpm/3.5A or less High : 66~80 rpm/4.5A or less Low : 39~47 rpm/7.0A or less High : 57~69 rpm/9.0A or less Low : 28N.m/24A or less High : 23N.m/28A or less
Windshield washer motor Motor type Pump type Current Discharge pressure Flow rate Overload capacity (Continuous operation) With water Racing	 DC ferrite magnet Centrifugal type Max. 6.7A Min. 1.6kgf/cm² Min. 1,500cc/min. Max. 60 sec. Max. 20 sec.
Rear wiper motor (5 doors) Speed/current at no load test Speed/current at 10 kg·cm load test (1.0 N.m, 0.7 lb.ft) Torque when locking Wiping angle	 40~56 rpm/Max. 2.0A 40~52 rpm/Max. 3.5A Min. 100 kgf.cm/Max.9A 90° ± 3°