
INSTRUMENT CLUSTER

id092200018500

Outline

- The instrument cluster centrally controls the speedometer, tachometer, odometer/tachometer, fuel gauge, warning/indicator lights, TFT LCD (with TFT LCD), trip computer, warning sounds and panel lights.

Function

- The instrument cluster displays the following information to notify the user of the vehicle conditions.
 - Vehicle speed (speedometer)
 - Engine speed (tachometer)
 - Remaining fuel quantity (fuel gauge)
 - Traveled distance (odometer/tripmeter)
 - Indicator/warning lights
 - Messages (with TFT LCD)
 - Average fuel economy, average vehicle speed, instantaneous fuel economy, remaining distance to empty (trip computer)

Speedometer display function

- The instrument cluster controls the needle based on the vehicle speed signal sent via CAN transmission from the PCM, and displays the current vehicle speed. For details on the speedometer, refer to SPEEDOMETER.

Tachometer display function

- The instrument cluster controls the needle based on the engine speed signal sent via CAN transmission from the PCM, and displays the current engine speed. For details on the tachometer, refer to TACHOMETER.

Fuel gauge display function

- The instrument cluster displays the remaining fuel quantity based on the fuel gauge resistance signal sent via CAN transmission from the RBCM, and the fuel injection amount signal sent via CAN transmission from the PCM. For details on the fuel gauge, refer to FUEL GAUGE.

Odometer/tripmeter display function

- The instrument cluster displays the total traveled distance/traveled distance over a specific interval based on the travel distance signal sent via CAN transmission from the PCM. For details on the odometer/speedometer, refer to ODOMETER/TRIPMETER.

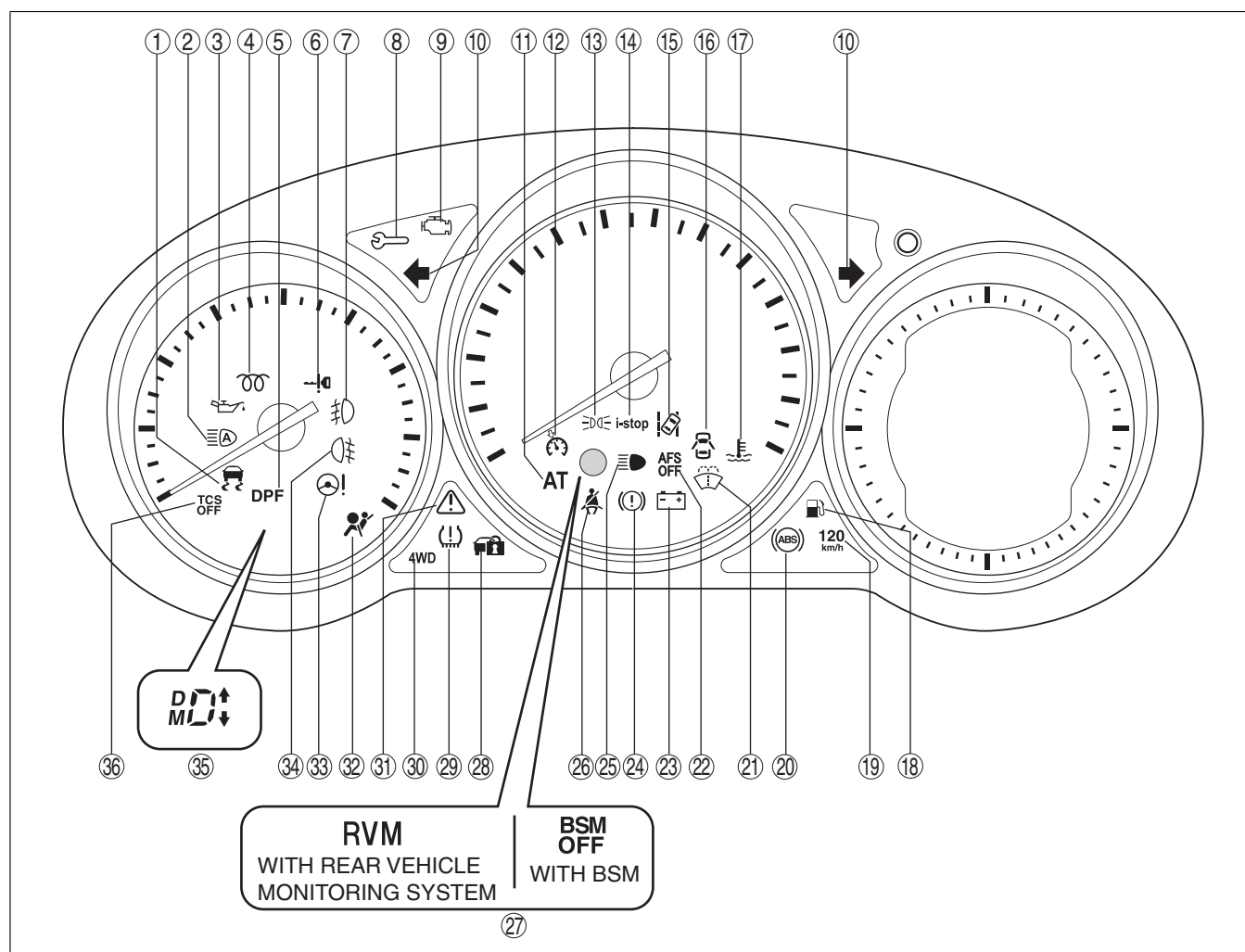
Trip computer calculation function

- The instrument cluster calculates the average fuel economy, average vehicle speed, instantaneous fuel economy, and the remaining distance to empty, and displays it on the LCD in the instrument cluster. For details on the trip computer, refer to TRIP COMPUTER INFORMATION SYSTEM.

Warning/Indicator lights illuminate/flash function

- The instrument cluster illuminates/flashes the indicator/warning lights to notify the user of the vehicle system conditions.
- The types of indicator/warning lights are as follows: Refer to reference for details on each indicator/warning light.








Without TFT LCD display



















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×: Applicable
—: Not applicable

No.	Warning/Indicator lights	Name	Comment	Warning/indicator lights which illuminate during initial check	Reference
1		TCS/DSC indicator light	—	×	(See TCS/DSC INDICATOR LIGHT.)
2		High beam control (HBC) system indicator light (green)/high beam control system (hbc) warning light (amber)	With High beam control (HBC) system	×	(See HBC INDICATOR LIGHT (GREEN)/HBC WARNING LIGHT (AMBER).)
3		Engine oil warning light	—	×	(See ENGINE OIL WARNING LIGHT.)
4		Glow indicator light	SKYACTIV-D 2.2	×	(See GLOW INDICATOR LIGHT [SKYACTIV-D 2.2].)

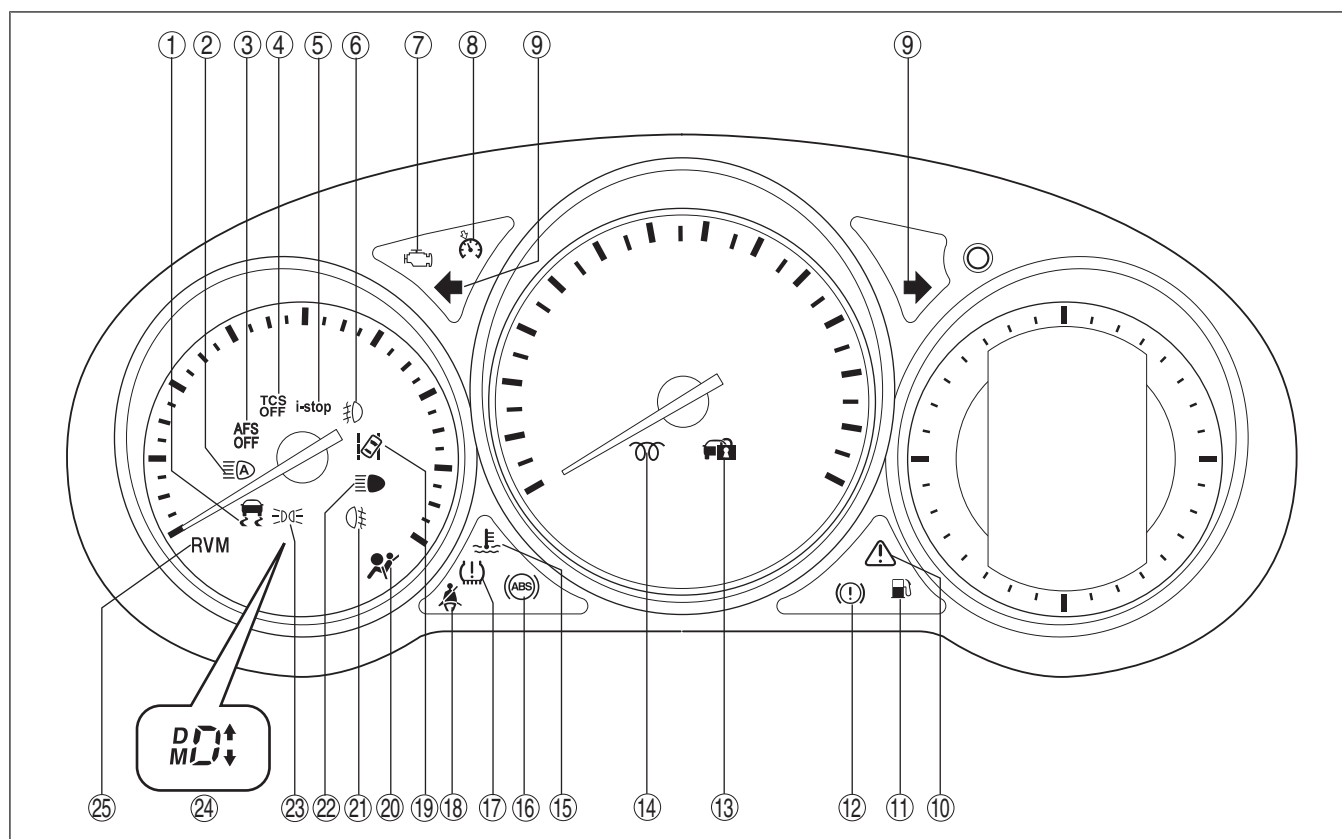
No.	Warning/ Indicator lights	Name	Comment	Warning/indicator lights which illuminate during initial check	Reference
5	DPF	Diesel particulate filter indicator light	SKYACTIV-D 2.2	×	(See DIESEL PARTICULATE FILTER INDICATOR LIGHT [SKYACTIV-D 2.2].)
6		KEY warning light (red)/indicator light (green)	—	—	(See KEY WARNING LIGHT (RED)/KEY INDICATOR LIGHT (GREEN).)
7		Front fog light indicator light	With front fog light	—	(See FRONT FOG LIGHTS INDICATOR LIGHT.)
8		Wrench indicator light	SKYACTIV-D 2.2	×	(See WRENCH INDICATOR LIGHT [SKYACTIV-D 2.2].)
9		Check engine light	—	×	(See CHECK ENGINE LIGHT [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
10		Turn signal/hazard warning indicator lights	—	—	(See TURN SIGNAL/HAZARD WARNING INDICATOR LIGHTS.)
11	AT	Automatic transaxle warning light	ATX	×	(See AUTOMATIC TRANSAXLE WARNING LIGHT [FW6A-EL, FW6AX-EL].)
12		Cruise main indicator light (amber)/cruise set indicator light (green)	With cruise control system	×	(See CRUISE MAIN INDICATOR LIGHT (AMBER) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE SET INDICATOR LIGHT (GREEN) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE MAIN INDICATOR LIGHT (AMBER) [SKYACTIV-D 2.2].) (See CRUISE SET INDICATOR LIGHT (GREEN) [SKYACTIV-D 2.2].)
13		Lights-on indicator light	—	—	(See LIGHTS-ON INDICATOR LIGHT.)

No.	Warning/ Indicator lights	Name	Comment	Warning/indicator lights which illuminate during initial check	Reference
14	i-stop	i-stop warning light (amber)/indicator light (green)	With i-stop system	×	(See i-stop INDICATOR LIGHT (GREEN) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See i-stop WARNING LIGHT (AMBER) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
15		Lane departure warning system (LDWS) indicator light (green)/lane departure warning system (LDWS) warning light (amber)	With LDWS	×	(See LDWS INDICATOR LIGHT (GREEN)/LDWS WARNING LIGHT (AMBER).)
16		Door-ajar warning light	—	—	(See DOOR-AJAR WARNING LIGHT.)
17		Low engine coolant temperature indicator light (blue)/high engine coolant temperature warning light (red)	—	×	(See LOW ENGINE COOLANT TEMPERATURE INDICATOR LIGHT (BLUE)/HIGH ENGINE COOLANT TEMPERATURE WARNING LIGHT (RED).)
18		Low fuel warning light	—	—	(See LOW FUEL WARNING LIGHT.)
19	120 km/h	120 km/h warning light	With 120 km/h warning light	×	(See 120 km/h WARNING LIGHT.)
20		ABS warning light	—	×	(See BRAKE SYSTEM/ABS WARNING LIGHT.)
21		Low washer fluid level warning light	—	—	(See WASHER FLUID-LEVEL SENSOR.)
22	AFS OFF	AFS OFF indicator light	With AFS	×	(See AFS OFF INDICATOR LIGHT.)
23		Charging system warning light	—	×	(See CHARGING SYSTEM WARNING LIGHT [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CHARGING SYSTEM WARNING LIGHT [SKYACTIV-D 2.2].)
24		Brake system warning light	—	×	(See BRAKE SYSTEM/ABS WARNING LIGHT.)

No.	Warning/ Indicator lights	Name	Comment	Warning/indicator lights which illuminate during initial check	Reference
25		Headlight high-beam indicator light	—	—	(See HEADLIGHT HIGH-BEAM INDICATOR LIGHT.)
26		Seat belt warning light	—	—	(See SEAT BELT WARNING LIGHT.)
27	RVM	Rear vehicle monitoring (RVM) system warning light (amber)/indicator light (green)	With Rear Vehicle Monitoring (RVM) System	×	(See REAR VEHICLE MONITORING (RVM) SYSTEM WARNING LIGHT (AMBER)/INDICATOR LIGHT (GREEN).)
	BSM OFF	BSM OFF indicator light	With BSM	×	(See BLIND SPOT MONITORING (BSM) OFF INDICATOR LIGHT.)
28		Security indicator light	With immobilizer system	×	(See SECURITY INDICATOR LIGHT.)
29		Tire pressure monitoring system warning light	With TPMS	×	(See TIRE PRESSURE MONITORING SYSTEM WARNING LIGHT.)
30	4WD	4WD warning light	4WD	×	(See 4WD WARNING LIGHT.)
31		Master warning light	—	×	(See MASTER WARNING LIGHT.)
32		Air bag/front seat belt pretensioner system warning light	—	×	(See AIR BAG SYSTEM WARNING LIGHT.)
33		Power steering malfunction indicator light	—	×	(See POWER STEERING MALFUNCTION INDICATOR LIGHT.)
34		Rear fog light indicator light	With rear fog light	—	(See REAR FOG LIGHT INDICATOR LIGHT.)

No.	Warning/ Indicator lights	Name	Comment	Warning/indicator lights which illuminate during initial check	Reference
35		Shift position indicator/gear position indicator	ATX	—	(See SHIFT POSITION INDICATOR LIGHT [FW6A-EL, FW6AX-EL].) (See GEAR POSITION INDICATOR [FW6A-EL, FW6AX-EL].)
		Gear shift indicator	MTX (with gear shift indicator)	—	(See GEAR SHIFT INDICATOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
36	TCS OFF	TCS OFF indicator light	—	x	(See TCS OFF SWITCH, TCS OFF INDICATOR LIGHT.)





With TFT LCD display















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Applied VIN (assumed): JMZ KE19760# 100001—120304, JMZ KE19780# 100001—120237, JMZ KE89780# 100001—120237, JMZ KEC9760# 100001—120304, JMZ KEF9160# 100001—133074, JMZ KEF9180# 100001—133074, JMZ KEK9760# 100001—120304, JMZ KEK9780# 100001—120237, JMZ KEN9160# 100001—133074, JMZ KEN9180# 100001—133074, JMZ KEN9260# 100001—133074, JMZ KEN9280# 100001—133074

x: Applicable
—: Not applicable

No	Warning/ Indicator lights	Name	Messages *1	Master warning light simultaneou s illumination	Comment	Warning/ indicator lights which illuminate during initial check	Reference
1		TCS/DSC indicator light	—	—	—	×	(See TCS/ DSC INDICATOR LIGHT.)
2		High beam control system (HBC) indicator light (green)/high beam control system (HBC) warning light (amber)	• HBC Inspection Required	×	With HBC System	×	(See HBC INDICATOR LIGHT (GREEN)/ HBC WARNING LIGHT (AMBER).)
3	AFS OFF	AFS OFF indicator light	—	—	With AFS	×	(See AFS OFF INDICATOR LIGHT.)
4	TCS OFF	TCS OFF indicator light	—	—	—	×	(See TCS OFF SWITCH, TCS OFF INDICATOR LIGHT.)
5	i-stop	i-stop warning light (amber)/indicator light (green)	<ul style="list-style-type: none"> • Ready Apply more Brake Pressure • Can't be activated Turn Steering Wheel to Neutral • Can't be activatedAir Conditioninghas Priority • Can't be activated. <ul style="list-style-type: none"> • Steering wheel • Brake • Air Conditioning • Please Restart Engine 	—	With i-stop system	×	(See i-stop INDICATOR LIGHT (GREEN) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See i-stop WARNING LIGHT (AMBER) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
6		Front Fog Light Indicator Light	—	—	With front fog light	—	(See FRONT FOG LIGHTS INDICATOR LIGHT.)
7		Check engine light	• Engine Inspection Required	×	—	×	(See CHECK ENGINE LIGHT [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)





No	Warning/ Indicator lights	Name	Messages *1	Master warning light simultaneou s illumination	Comment	Warning/ indicator lights which illuminate during initial check	Reference
8		Cruise main indicator light (amber)/cruise set indicatorlight (green)	—	—	With cruise control system	×	(See CRUISE MAIN INDICATOR LIGHT (AMBER) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE SET INDICATOR LIGHT (GREEN) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE MAIN INDICATOR LIGHT (AMBER) [SKYACTIV-D 2.2].) (See CRUISE SET INDICATOR LIGHT (GREEN) [SKYACTIV-D 2.2].)
9		Turn signal/hazard warning indicator lights	—	—	—	—	(See TURN SIGNAL/ HAZARD WARNING INDICATOR LIGHTS.)
10		Master warning light	<ul style="list-style-type: none"> • Battery Management System Inspection Required • Brake Override System Inspection Required • Vehicle System Inspection Required • FSC Inspection Required • SCBS Inspection Required 	—	—	×	(See MASTER WARNING LIGHT.)
11		Low fuel warning light	• Refill Fuel Tank	×	—	—	(See LOW FUEL WARNING LIGHT.)







No	Warning/ Indicator lights	Name	Messages*1	Master warning light simultaneou s illumination	Comment	Warning/ indicator lights which illuminate during initial check	Reference
12		Brake system warning light	<ul style="list-style-type: none"> • Brake Fluid Level Low • Release Parking Brake • Brake Inspection Required 	x	—	x	(See BRAKE SYSTEM/ABS WARNING LIGHT.)
13		Security indicator light	—	—	—	x	(See SECURITY INDICATOR LIGHT.)
14		Glow indicator light	—	—	SKYACTIV-D 2.2	x	(See GLOW INDICATOR LIGHT [SKYACTIV-D 2.2].)
15		Low engine coolant temperature indicator light (blue)/high engine coolant temperature warning light (red)	<ul style="list-style-type: none"> • Engine Coolant Temperature High • Stop Vehicle at safe area 	x	—	x	(See LOW ENGINE COOLANT TEMPERATURE INDICATOR LIGHT (BLUE)/HIGH ENGINE COOLANT TEMPERATURE WARNING LIGHT (RED).)
16		ABS warning light	—	—	—	x	(See BRAKE SYSTEM/ABS WARNING LIGHT.)
17		Tire pressure monitoring system warning light	<ul style="list-style-type: none"> • Check Tyre Pressure • TPMS Inspection Required • Tyre Pressure Monitor Initialized 	x	With TPMS	x	(See TIRE PRESSURE MONITORING SYSTEM WARNING LIGHT.)
18		Seat belt warning light	—	—	—	—	(See SEAT BELT WARNING LIGHT.)
19		Lane departure warning system (LDWS) indicator light (green)/warning light (amber)	<ul style="list-style-type: none"> • LDWS Inspection Required 	x	With LDWS	x	(See LDWS INDICATOR LIGHT (GREEN)/LDWS WARNING LIGHT (AMBER).)
20		Air bag/front seat belt pretensioner system warning light	—	—	—	x	(See AIR BAG SYSTEM WARNING LIGHT.)











No	Warning/ Indicator lights	Name	Messages *1	Master warning light simultaneou s illumination	Comment	Warning/ indicator lights which illuminate during initial check	Reference
21		Rear fog light indicator light	—	—	With rear fog light	—	(See REAR FOG LIGHT INDICATOR LIGHT.)
22		Headlight high-beam indicator light	—	—	—	—	(See HEADLIGHT HIGH-BEAM INDICATOR LIGHT.)
23		Lights-on indicator light	• Headlights On	×	—	—	(See LIGHTS-ON INDICATOR LIGHT.)
24		Shift position indicator/ gear position indicator	—	—	ATX	—	(See SHIFT POSITION INDICATOR LIGHT [FW6A-EL, FW6AX-EL].) (See GEAR POSITION INDICATOR [FW6A-EL, FW6AX-EL].)
		Gear shift indicator	—	—	MTX (with gear shift indicator)	—	(See GEAR SHIFT INDICATOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
25	RVM	Rear vehicle monitoring (RVM) system warning light (amber)/indicator light (green)	—	—	With rear vehicle monitoring (RVM) system	×	(See REAR VEHICLE MONITORING (RVM) SYSTEM WARNING LIGHT (AMBER)/INDICATOR LIGHT (GREEN).)


Applied VIN (assumed): JMZ KE19760# 120305—, JMZ KE19780# 120238—, JMZ KE89780# 120238—, JMZ KEC9760# 120305—, JMZ KEF9160# 133075—, JMZ KEF9180# 133075—, JMZ KEK9760# 120305—, JMZ KEK9780# 120238—, JMZ KEN9160# 133075—, JMZ KEN9180# 133075—, JMZ KEN9260# 133075—, JMZ KEN9280# 133075—

×: Applicable
—: Not applicable

No	Warning/ Indicator lights	Name	Messages *1	Comment	Warning/ indicator lights which illuminate during initial check	Reference
1		TCS/DSC indicator light	—	—	×	(See TCS/DSC INDICATOR LIGHT.)
2		High beam control system (HBC) indicator light (green)/ high beam control system (HBC) warning light (amber)	• HBC Inspection Required	With HBC System	×	(See HBC INDICATOR LIGHT (GREEN)/HBC WARNING LIGHT (AMBER).)
3	AFS OFF	AFS OFF indicator light	—	With AFS	×	(See AFS OFF INDICATOR LIGHT.)
4	TCS OFF	TCS OFF indicator light	—	—	×	(See TCS OFF SWITCH, TCS OFF INDICATOR LIGHT.)
5	i-stop	i-stop warning light (amber)/ indicator light (green)	<ul style="list-style-type: none"> • Ready Apply more Brake Pressure • Can't be activated Turn Steering Wheel to Neutral • Can't be activated Air Conditioning has Priority • Can't be activated. <ul style="list-style-type: none"> • Steering wheel • Brake • Air Conditioning • Please Restart Engine 	With i-stop system	×	(See i-stop INDICATOR LIGHT (GREEN) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See i-stop WARNING LIGHT (AMBER) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
6		Front Fog Light Indicator Light	—	With front fog light	—	(See FRONT FOG LIGHTS INDICATOR LIGHT.)
7		Check engine light	• Engine Inspection Required	—	×	(See CHECK ENGINE LIGHT [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

No	Warning/ Indicator lights	Name	Messages *1	Comment	Warning/ indicator lights which illuminate during initial check	Reference
8		Cruise main indicator light (amber)/cruise set indicatorlight (green)	—	With cruise control system	×	(See CRUISE MAIN INDICATOR LIGHT (AMBER) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE SET INDICATOR LIGHT (GREEN) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CRUISE MAIN INDICATOR LIGHT (AMBER) [SKYACTIV-D 2.2].) (See CRUISE SET INDICATOR LIGHT (GREEN) [SKYACTIV-D 2.2].)
9		Turn signal/hazard warning indicator lights	—	—	—	(See TURN SIGNAL/ HAZARD WARNING INDICATOR LIGHTS.)
10		Master warning light	<ul style="list-style-type: none"> • Battery Management System Inspection Required • Brake Override System Inspection Required • Vehicle System Inspection Required • FSC Inspection Required • SCBS Inspection Required 	—	×	(See MASTER WARNING LIGHT.)
11		Low fuel warning light	<ul style="list-style-type: none"> • Refill Fuel Tank 	—	—	(See LOW FUEL WARNING LIGHT.)
12		Brake system warning light	<ul style="list-style-type: none"> • Brake Fluid Level Low • Release Parking Brake • Brake Inspection Required 	—	×	(See BRAKE SYSTEM/ABS WARNING LIGHT.)
13		Security indicator light	—	—	×	(See SECURITY INDICATOR LIGHT.)

No	Warning/ Indicator lights	Name	Messages *1	Comment	Warning/ indicator lights which illuminate during initial check	Reference
14		Glow indicator light	—	SKYACTIV-D 2.2	×	(See GLOW INDICATOR LIGHT [SKYACTIV-D 2.2].)
15		Low engine coolant temperature indicator light (blue)/high engine coolant temperature warning light (red)	<ul style="list-style-type: none"> • Engine Coolant Temperature High • Stop Vehicle at safe area 	—	×	(See LOW ENGINE COOLANT TEMPERATUR E INDICATOR LIGHT (BLUE)/ HIGH ENGINE COOLANT TEMPERATUR E WARNING LIGHT (RED).)
16		ABS warning light	—	—	×	(See BRAKE SYSTEM/ABS WARNING LIGHT.)
17		Tire pressure monitoring system warning light	<ul style="list-style-type: none"> • Check Tyre Pressure • TPMS Inspection Required • Tyre Pressure Monitor Initialized 	With TPMS	×	(See TIRE PRESSURE MONITORING SYSTEM WARNING LIGHT.)
18		Seat belt warning light	—	—	—	(See SEAT BELT WARNING LIGHT.)
19		Lane departure warning system (LDWS) indicator light (green)/warning light (amber)	<ul style="list-style-type: none"> • LDWS Inspection Required 	With LDWS	×	(See LDWS INDICATOR LIGHT (GREEN)/ LDWS WARNING LIGHT (AMBER).)
20		Air bag/front seat belt pretensioner system warning light	—	—	×	(See AIR BAG SYSTEM WARNING LIGHT.)
21		Rear fog light indicator light	—	With rear fog light	—	(See REAR FOG LIGHT INDICATOR LIGHT.)
22		Headlight high-beam indicator light	—	—	—	(See HEADLIGHT HIGH-BEAM INDICATOR LIGHT.)
23		Lights-on indicator light	<ul style="list-style-type: none"> • Headlights On 	—	—	(See LIGHTS- ON INDICATOR LIGHT.)

No	Warning/ Indicator lights	Name	Messages *1	Comment	Warning/ indicator lights which illuminate during initial check	Reference
24		Shift position indicator/gear position indicator	—	ATX	—	(See SHIFT POSITION INDICATOR LIGHT [FW6A-EL, FW6AX-EL].) (See GEAR POSITION INDICATOR [FW6A-EL, FW6AX-EL].)
		Gear shift indicator	—	MTX (with gear shift indicator)	—	(See GEAR SHIFT INDICATOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
25	RVM	Rear vehicle monitoring (RVM) system warning light (amber)/indicator light (green)	—	With rear vehicle monitoring (RVM) system	×	(See REAR VEHICLE MONITORING (RVM) SYSTEM WARNING LIGHT (AMBER)/INDICATOR LIGHT (GREEN).)

*1 : For the system without the warning light/indicator light, refer to the message in the LIQUID CRYSTAL DISPLAY (LCD).

Alarm operation function

- The instrument cluster sounds the alarm using the buzzer built into the instrument cluster to notify the user of the vehicle conditions.
- The alarm types are as follows: Refer to reference for details on each alarm.

Name	Reference
Lights-on reminder warning alarm	(See LIGHTS-ON REMINDER WARNING ALARM.)
Seat belt warning alarm	(See SEAT BELT WARNING ALARM.)
Air bag system warning alarm	(See AIR BAG SYSTEM WARNING ALARM.)
Keyless warning alarm	(See KEYLESS WARNING ALARM.)
Tire pressure warning alarm (with TPMS)	(See TIRE PRESSURE WARNING ALARM.)
Ambient temperature warning alarm	(See AMBIENT TEMPERATURE WARNING ALARM.)
Panel light control indicator alarm	(See PANEL LIGHT CONTROL INDICATOR ALARM.)
Turn and hazard indicator alarm	(See TURN AND HAZARD INDICATOR ALARM.)
Vehicle speed alarm (with vehicle speed alarm)	(See TRIP COMPUTER INFORMATION SYSTEM.)
Panel light control indicator alarm	(See PANEL LIGHT CONTROL INDICATOR ALARM.)
Turn and hazard indicator alarm	(See TURN AND HAZARD INDICATOR ALARM.)
Rear vehicle monitoring (RVM) warning alarm (with rear vehicle monitoring (RVM) system)	(See RVM WARNING ALARM.)
Blind spot monitoring (BSM) warning alarm (with BSM system)	(See BLIND SPOT MONITORING (BSM) WARNING ALARM.)
i-stop warning alarm (with i-stop system)	(See i-stop WARNING ALARM.)
LDWS warning alarm (with lane departure warning system (LDWS))	(See LDWS WARNING ALARM.)
120 km/h warning alarm (with 120 km/h warning alarm)	(See 120 km/h WARNING ALARM.)

- If several alarm request signals are received simultaneously, the alarms sound according to the order of precedence in the following table.

Ignition is switched OFF (LOCK)

Order or precedence	Name
1	Keyless warning alarm (pattern A)
2	Lights-on reminder warning alarm
3	Keyless warning alarm (pattern B, C)
4	Turn and hazard indicator alarm
5	Panel light control indicator alarm

Ignition switch ON (engine off or on)

Order or precedence	Name
1	120 km/h warning alarm (with 120 km/h warning alarm)
2	i-stop warning alarm (with i-stop system)
3	Seat belt warning alarm (Driver/passenger)
4	Seat belt warning alarm (Rear) (with rear seat belt warning alarm)
5	Tire pressure warning alarm (Tire pressure monitoring system initialization) (with TPMS)
6	Tire pressure warning alarm (Tire pressure monitoring system operating) (with TPMS)
7	Rear vehicle monitoring (RVM) warning alarm (with rear vehicle monitoring (RVM) system)
	Blind spot monitoring (BSM) warning alarm (with BSM system)
8	LDWS warning alarm (with lane departure warning system (LDWS))
9	Keyless warning alarm
10	Air bag system warning alarm
11	Ambient temperature warning alarm
12	Vehicle speed alarm (with vehicle speed alarm)
13	Turn and hazard indicator alarm
14	Panel light control indicator alarm

Panel light control function

- The instrument cluster changes the panel light brightness according to the ignition switch being turned ON (engine off or on) or the TNS being illuminated. For details on the panel light, refer to PANEL LIGHT.

Vehicle specification information transmission function

- The instrument cluster sends vehicle specification information stored during configuration to the following modules via CAN transmission. The following modules perform configuration automatically by reading the vehicle specification information from the instrument cluster.
 - DSC HU/CU
 - EPS control module
 - AFS control module (with AFS)
 - LASER SENSOR (with smart city brake support (SCBS))

Battery discharge suppression function

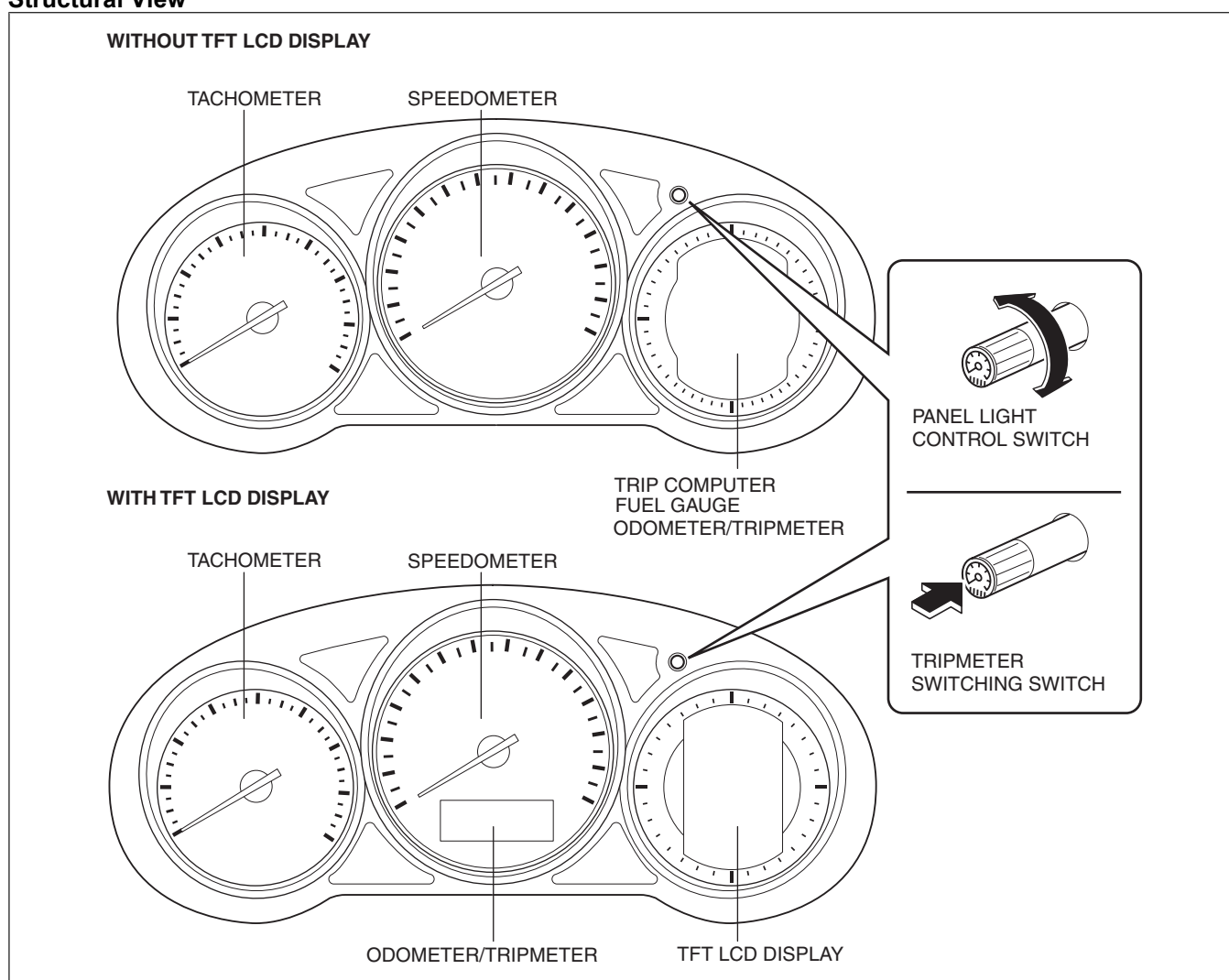
Note

- This function is established for suppressing battery discharge during vehicle manufacture and shipment, however, if a room fuse is removed from a vehicle while the total traveled distance is low, the function may operate when the vehicle is in the market.
- The battery discharge suppression is a function in which the instrument cluster sends a battery discharge suppression signal to the following units based on the room fuse condition and the total traveled distance, and suppresses battery discharge by restricting the operation of electric load for the following units.

Unit	Control description
Front body control module (FBCM)	Running light turns off 5 min after it is illuminated. (Only when engine stopped)
Start stop unit	Ignition is switched off 25 min after ignition is switched to ACC or ON (engine off) (For ATX, only when selector lever is in P position).

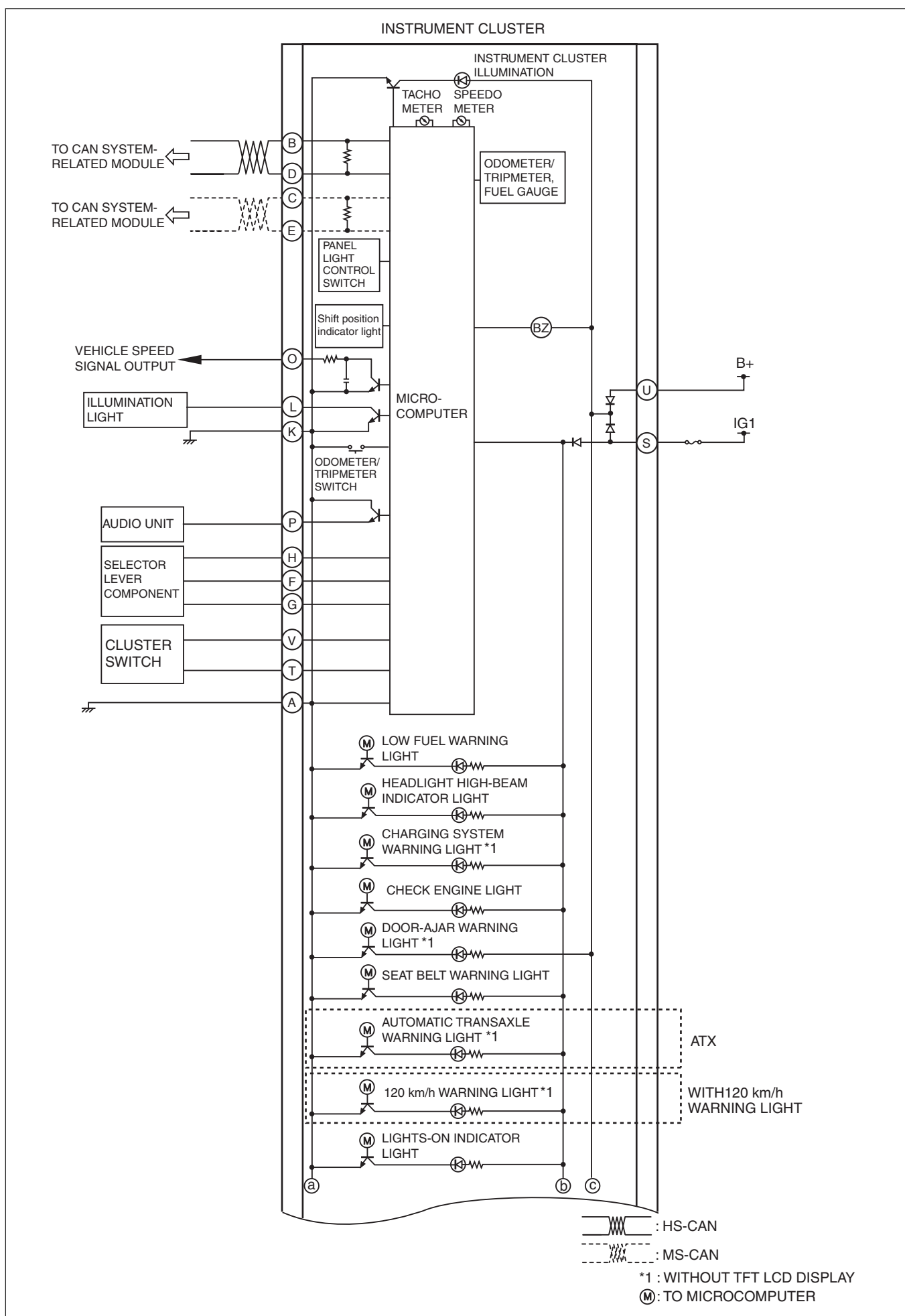
- The battery discharge suppression function operates when the total traveled distance is the threshold or less and the room fuse has been removed.
- When the battery discharge suppression function is operated, the instrument cluster displays F0-002, F0-HHH, F0-LLL in the odometer/tripmeter of the instrument cluster to indicate that the battery discharge suppression function is operating.
- The battery discharge suppression function is stopped under the following conditions.
 - Room fuse is installed
 - Engine is started
 - Total traveled distance exceeds the threshold value

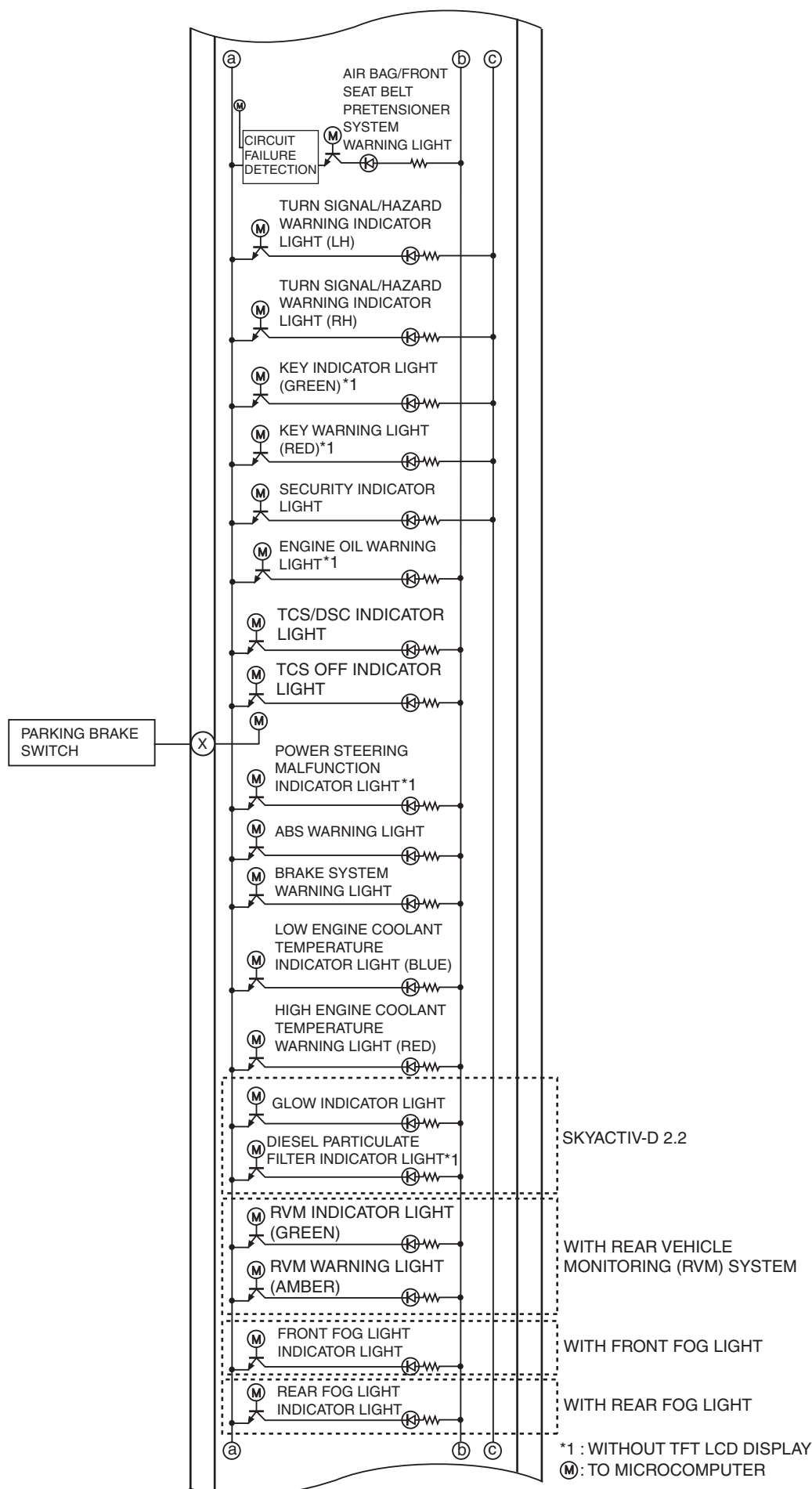
Structural View

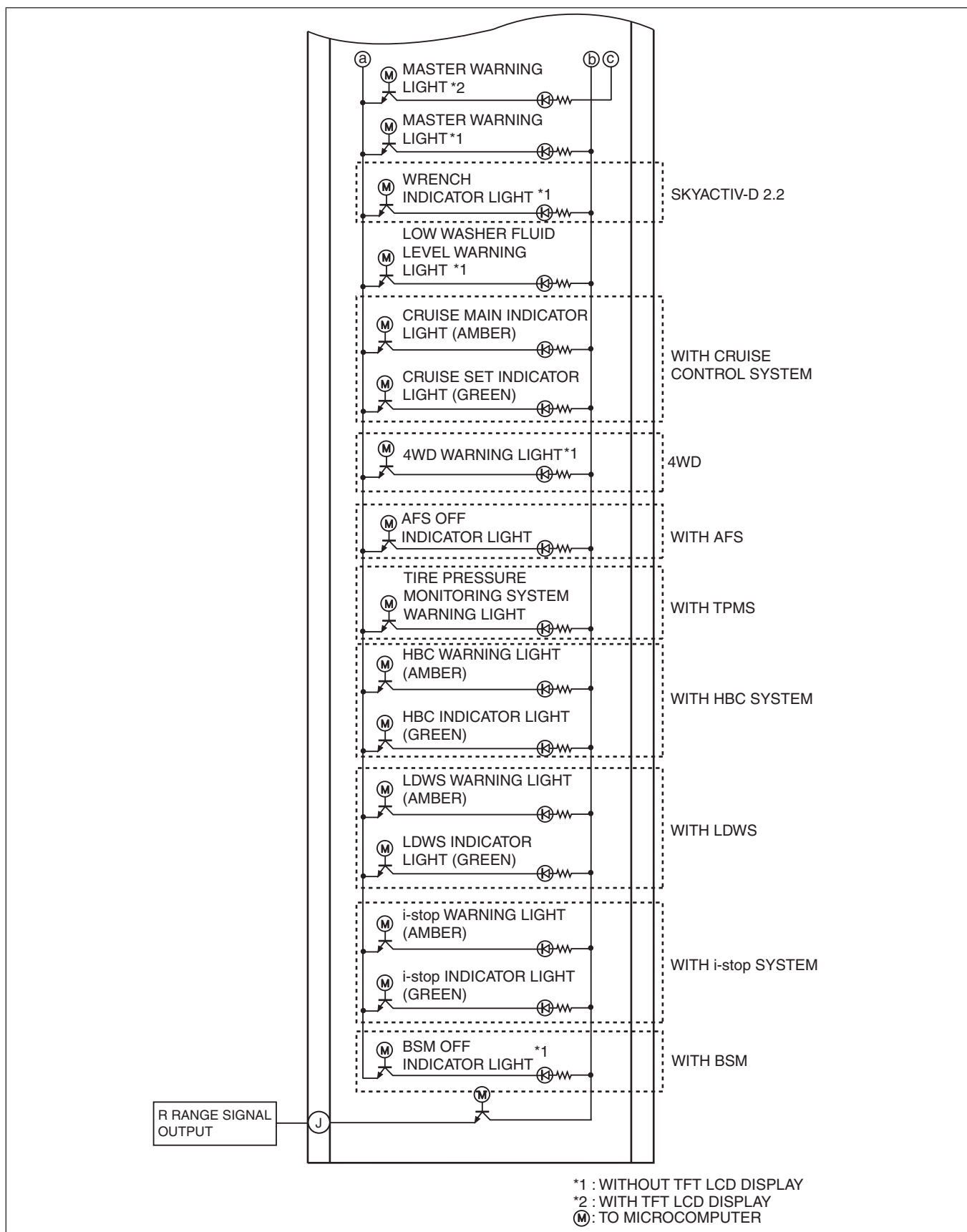


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System Wiring Diagram







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Fail-safe Speedometer

- If the CAN signal cannot be received normally, the instrument cluster displays the 0 mark.

Tachometer

- If the CAN signal cannot be received normally, the instrument cluster displays the 0 mark.

Fuel gauge

- If the CAN signal cannot be received normally, the instrument cluster turns off one segment at regular time intervals since the segments calculated based on the signal last received are displayed.

Odometer/tripmeter

- If the instrument cluster detects a malfunction in the internal CPU, the instrument cluster displays the “— —”.

Warning lights

- If the CAN signal cannot be received normally, the instrument cluster turns the warning light on.

Indicator lights

- If the CAN signal cannot be received normally, the instrument cluster turns the indicator light off.

Alarm

- If the CAN signal cannot be received normally, the instrument cluster stops the alarm.

Panel light

- If the CAN signal cannot be received normally, the instrument cluster turns the panel light on.

Trip computer information system

- If the instrument cluster detects a malfunction in the internal CPU, the instrument cluster displays the “— —”.

Ambient temperature display

- If the CAN signal cannot be received normally, the instrument cluster displays the “— —” and does not display the ice mark.