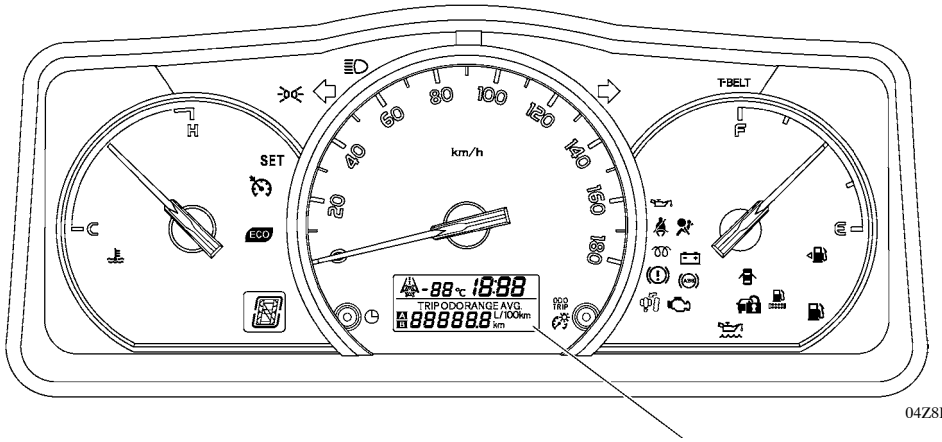
METER

■ COMBINATION METER

1. General

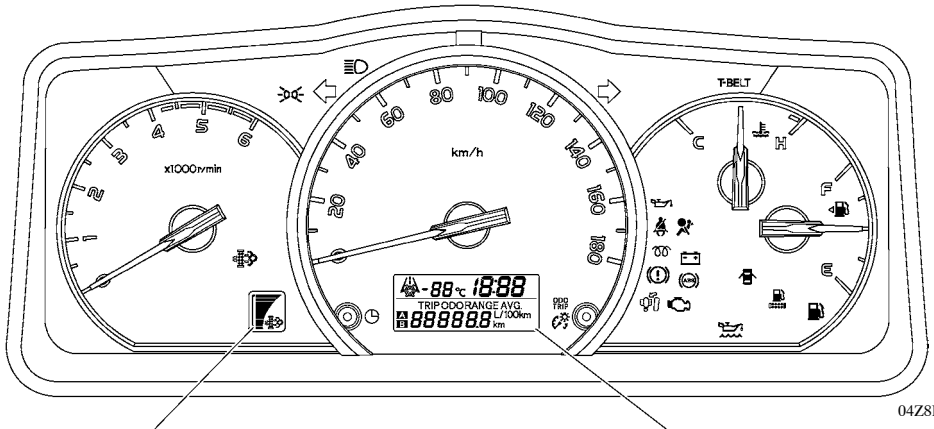
- The designs of the analog type combination meter assembly and the optitron display type combination meter assembly have been changed.
- For the multi-information display, a segment LCD type has been adopted for the analog type combination meter assembly and a dot LCD type has been adopted for the optitron display type combination meter assembly.
- The diesel engine models adopted a DPF sedimentation bar.*1
- The buzzer built into the combination meter assembly has been changed from a multi buzzer to a single buzzer.
- The Eco Driving Indicator for the optitron display type combination meter assembly has been changed and an Eco Driving Indicator Zone Display has been added.*2
- A CAN communication compatible combination meter assembly has been adopted.

*1: Models with analog type combination meter assembly
*2: Models with A/T



Segment LCD Type
Multi-information Display

Analog Display Type without Tachometer

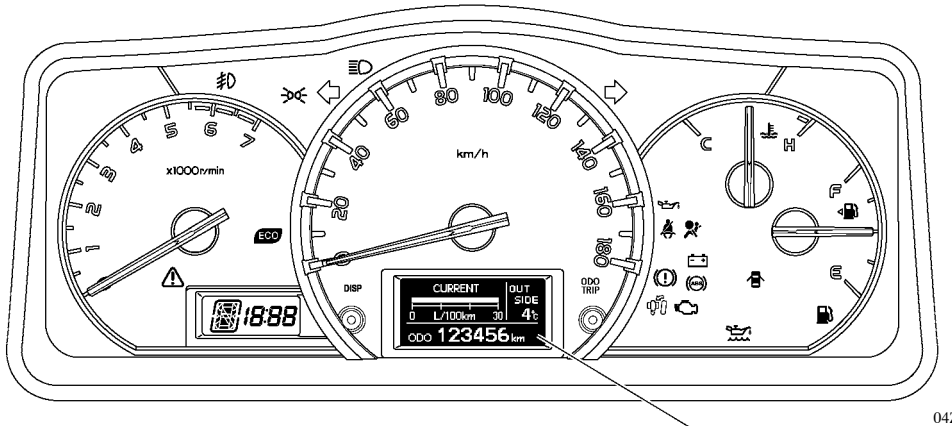


DPF Sedimentation Bar*

Segment LCD Type
Multi-information Display

Analog Display Type with Tachometer

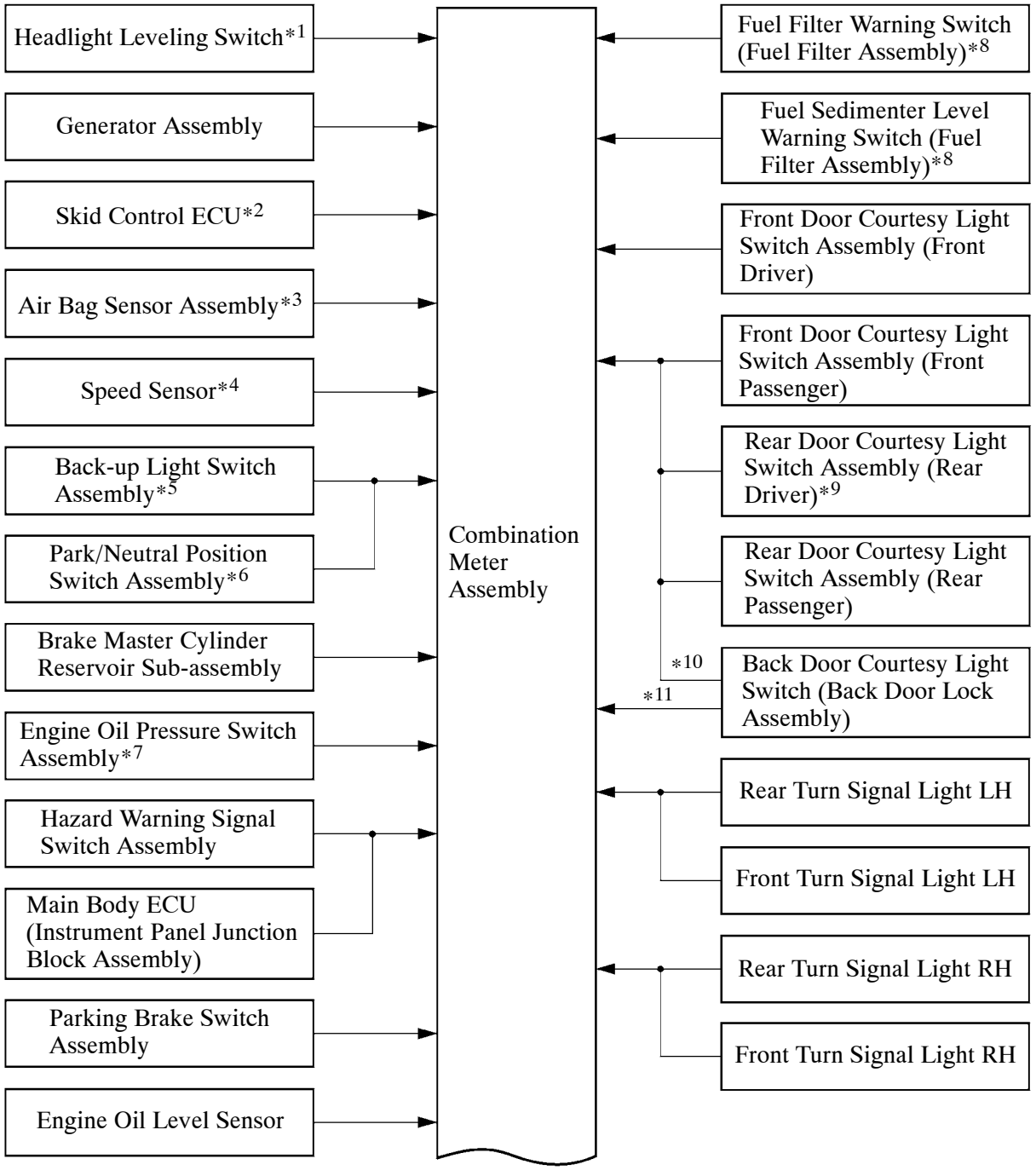
*: Models with Diesel Engine



Optitron Display Type

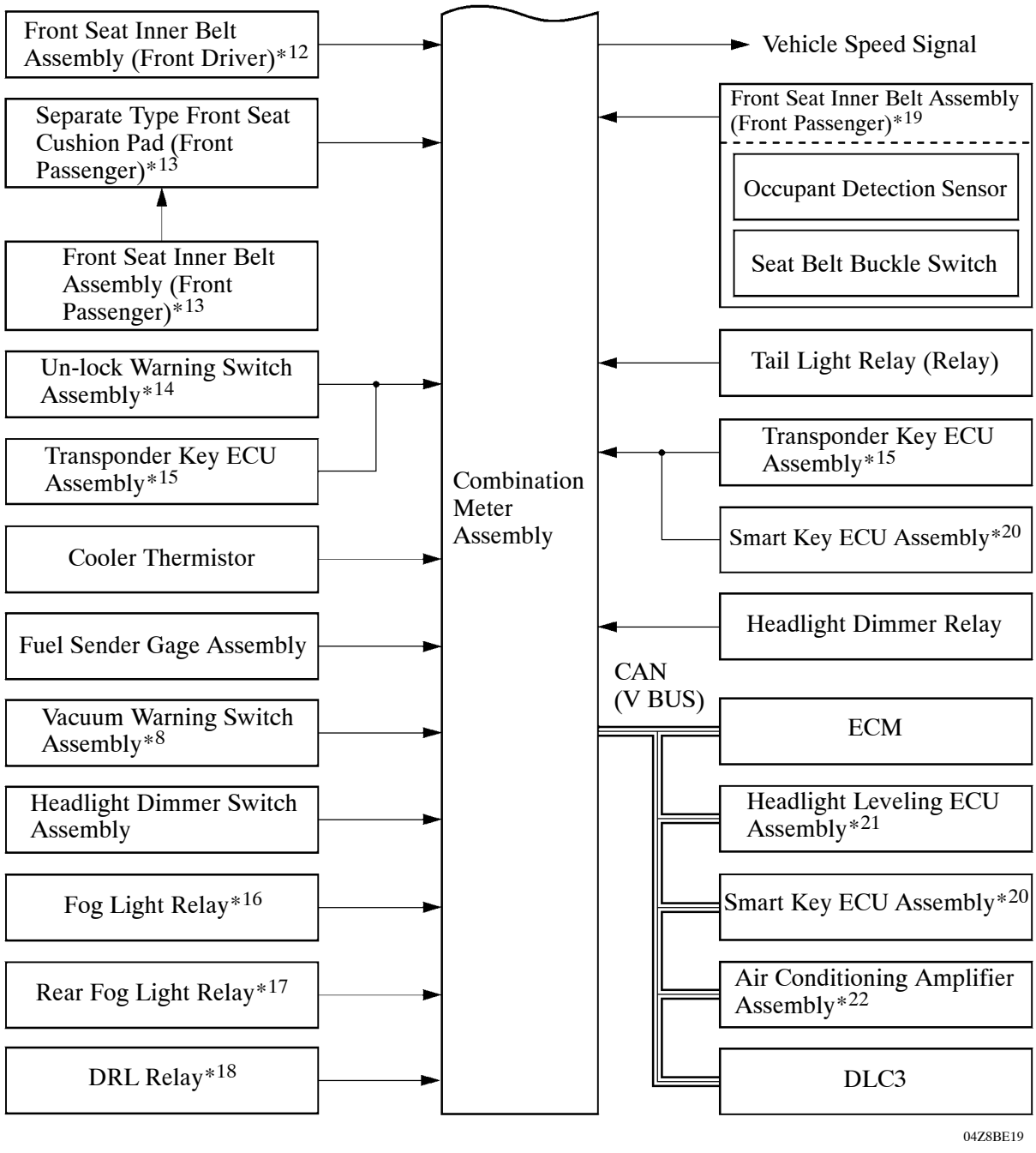
Dot LCD Type
Multi-information Display

2. System Diagram



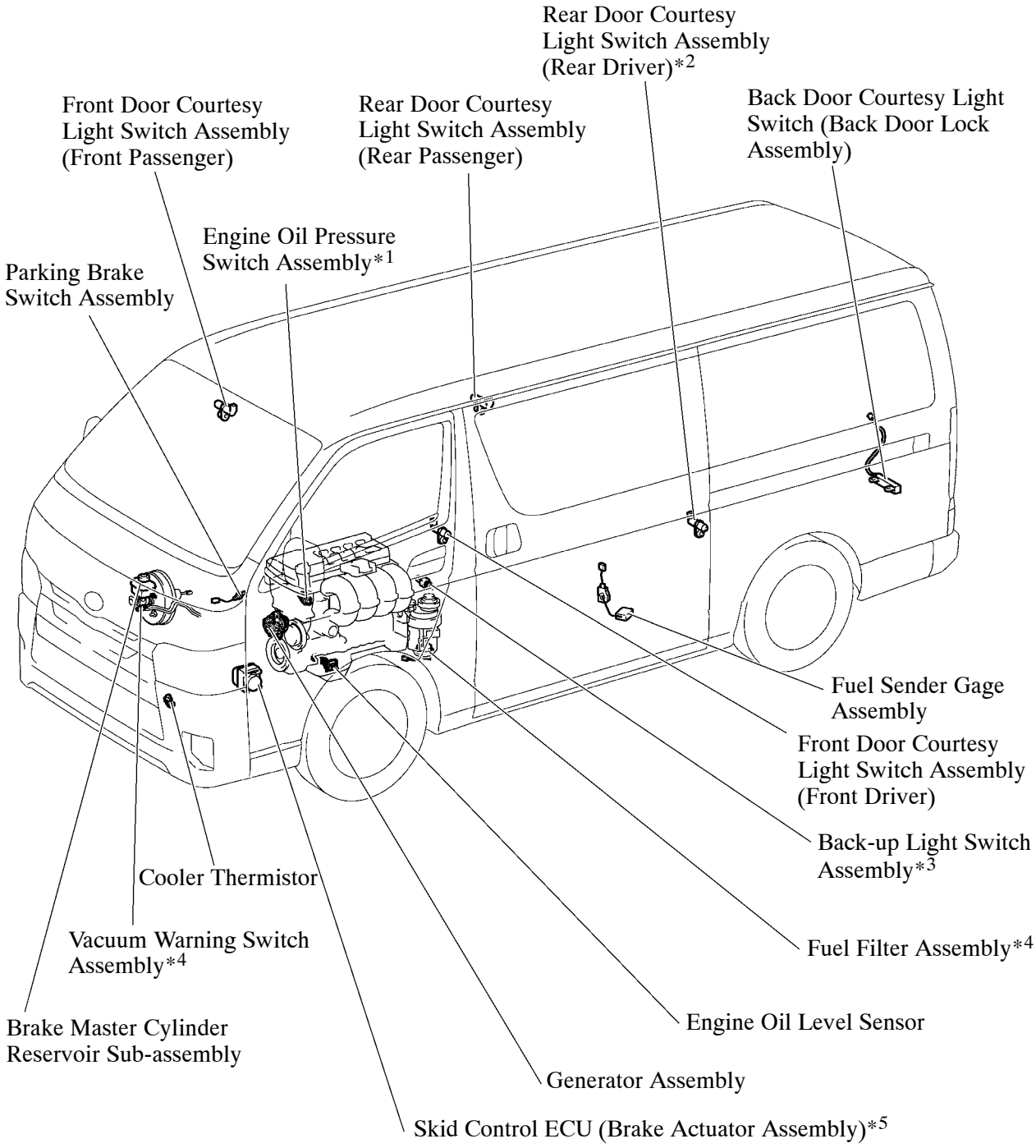
04Z8BE18

*1: Models with Manual Headlight Beam Level Control System
*2: Models with ABS
*3: Models with SRS Airbag System
*4: Models with Speed Sensor
*5: Models with M/T
*6: Models with A/T
*7: Models with Gasoline Engine
*8: Models with Diesel Engine
*9: Models with Slide Door of Driver Side
*10: Models without Emergency Escape Door Buzzer
*11: Models with Emergency Escape Door Buzzer



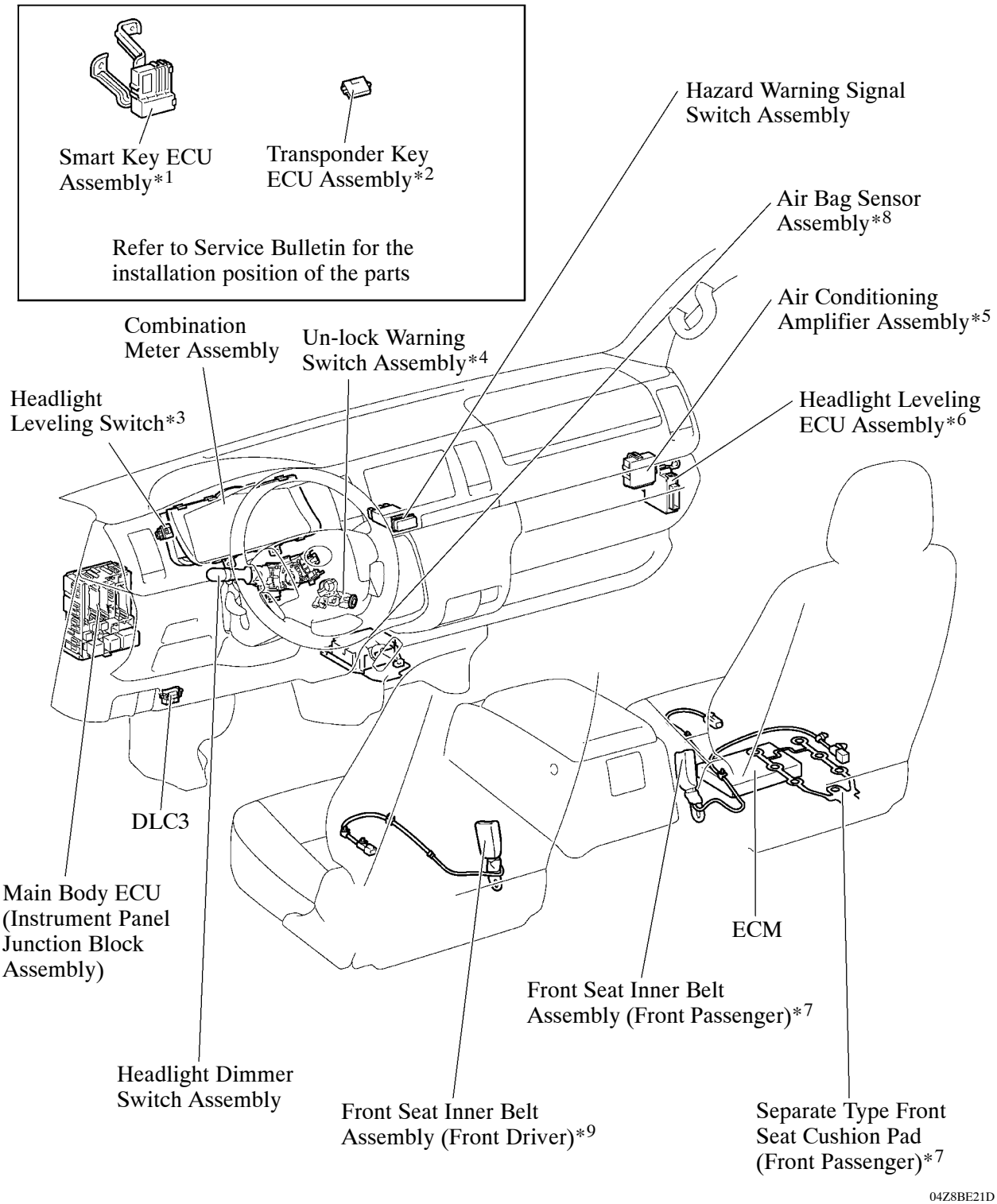
*12:Models with Seat Belt Reminder System for Front Driver
*13:Models with Seat Belt Reminder System for Front Passenger
(RHD Front 2-seater, RHD Front 3-seater with All Separate Seats)
*14:Models without Entry and Start System
*15:Models with Engine Immobiliser System without Entry and Start System
*16:Models with Fog Light Assembly
*17:Models with Rear Fog Light
*18:Models with Daytime Running Light System
*19:Models with Seat Belt Reminder System for Front Passenger (Except for *13)
*20:Models with Entry and Start System
*21:Models with LED Headlight Assembly
*22:Models with Air Conditioning System

3. Parts Location



04Z8BE20

*1: Models with Gasoline Engine
*2: Models with Slide Door of Driver Side
*3: Models with M/T
*4: Models with Diesel Engine
*5: Models with ABS



04Z8BE21D

*1: Models with Entry and Start System
*2: Models with Engine Immobiliser System without Entry and Start System
*3: Models with Manual Headlight Beam Level Control System
*4: Models without Entry and Start System
*5: Models with Air Conditioning System
*6: Models with LED Headlight Assembly
*7: Models with Seat Belt Reminder System for Front Passenger
*8: Models with SRS Airbag System
*9: Models with Seat Belt Reminder System for Front Driver

▶ Signal of ECU ◀

ECU	Input Signal
ECM	● Engine speed signal ● Shift position signal*1 ● Current range position signal ● Fuel injection volume signal ● Engine coolant temperature signal ● Buzzer sounding request signal ● Warning light control signal ● Indicator light illumination request signal ● Warning message display request signal ● Eco-zone indicator level signal*1 ● Ecology light indicator signal*1 ● Information message display request signal ● Diagnosis
Headlight Leveling ECU Assembly*2	Indicator light illumination request signal
Smart Key ECU Assembly*3	● Warning message display request signal ● Information message display request signal ● Buzzer sounding request ● Engine immobiliser certification signal ● Emergency request signal
Air Conditioning Amplifier Assembly*4	Outside temperature signal

*1: Models with A/T
*2: Models with LED headlight assembly
*3: Models with entry and start system
*4: Models with air conditioning system

4. Buzzer Function

The table below shows the warning and reminder functions of the buzzer in the combination meter assembly:

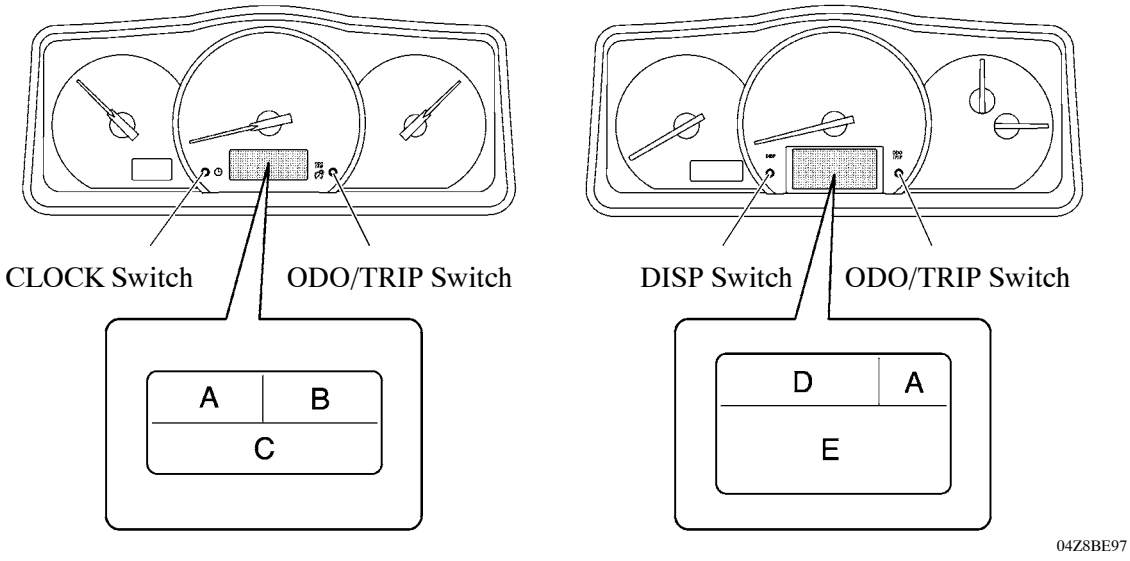
Function
● Multi-information Display Warning Mode Indication*1
● Emergency Door Warning*2
● Engine Start while Driving Notice*3
● Engine Switch Operation while Driving Warning*3
● Unexpected Vehicle Motion Warning*4
● Immobiliser Certification Reminder*3
● Parking Brake Engaged Warning
● Door Open while Driving Warning
● Door Open While Other Than Shift Position P Warning*3
● Sedimenter Warning*5
● Speed Limiter Warning*6
● Front Seat Belt Warning*7
● Oil Pressure Warning
● Engine High Water Temperature Warning
● Entry and Start System Warning*3
● Key Reminder*8
● Light Reminder
● Flasher Indication

*1: Models with dot LCD type multi-information display
*2: Models with emergency door buzzer
*3: Models with entry and start system
*4: Models with unexpected vehicle motion warning
*5: Models with diesel engine
*6: Models with speed limiter warning
*7: Models with front seat belt warning buzzer
*8: Models with key reminder

5. Multi-information Display

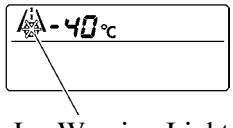
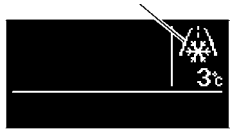
- For the multi-information display, a dot LCD type has been adopted for the optitron display type combination meter assembly and a segment LCD type has been adopted for the analog type combination meter assembly.
- The multi-information display switches every time the ODO/TRIP switch, DISP switch or CLOCK switch is pressed.
- The multi-information display has 3 areas depending on the display mode.

▶ Display Areas ◀

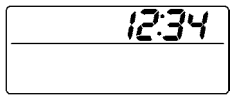
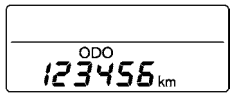
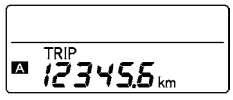
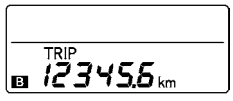
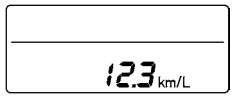
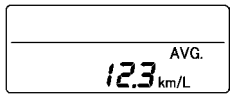
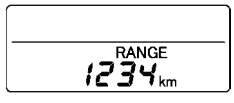
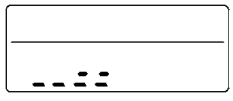
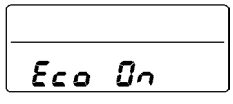


Segment LCD Type **Dot LCD Type**

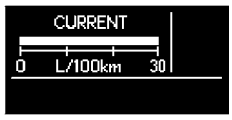
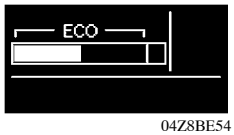
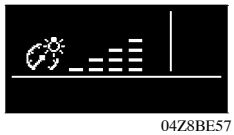
▶ Displayed Information ◀

Display Areas	Display Item	Display	Outline
A	Outside Temperature	Segment LCD Type  Ice Warning Light 04Z8BE103 Dot LCD Type  04Z8BE104 Ice Warning Light  04Z8BE109	● Displays the temperature outside. ● When the outside temperature drops below 3°C (37°F), an to warn the driver to drive with caution due to icy road conditions. After the ice warning light flashes 10 times, the light stay on. When temperature reaches 5°C (41°F), the light goes off.

(Continued)

Display Areas	Display Item		Display	Outline
B	Clock		Segment LCD Type  04Z8BE105	Displays the clock.
C	Odo/Trip Meter	Odometer	Segment LCD Type  04Z8BE89	Displays the odometer.
		Trip Meter A	Segment LCD Type  04Z8BE90	Displays the trip meter A.
		Trip Meter B	Segment LCD Type  04Z8BE91	Displays the trip meter B.
	Cruise Information*1	Current Fuel Consumption	Segment LCD Type  04Z8BE92	● Displays the value that has been calculated by the meter ECU, which is based on the driven distance and the fuel consumption volume (fuel injection amount signal from the ECM via CAN), provided that the ignition switch is turned on (IG). ● The display updates every 0.5 seconds.
		Average Fuel Consumption	Segment LCD Type  04Z8BE93	● Displays the value that has been calculated by the meter ECU, which is based on the driven distance and the fuel consumption volume (fuel injection amount signal from the ECM via CAN). ● The display updates every 10 seconds.
		Cruising Range	Segment LCD Type  04Z8BE94	● Displays the value that has been calculated by the meter ECU, which is based on the fuel consumption data that the meter ECU continuously monitors and stores in its memory, and the residual fuel volume data, provided that the ignition switch is turned on (IG). ● The display updates every 10 seconds.
	Rheostat Setting		Segment LCD Type  04Z8BE95	Meter panel luminance can be changed.
	Eco Driving Indicator Light Setting*2		Segment LCD Type  04Z8BE88	The Eco Driving Indicator Light can be switched to on or off.

(Continued)

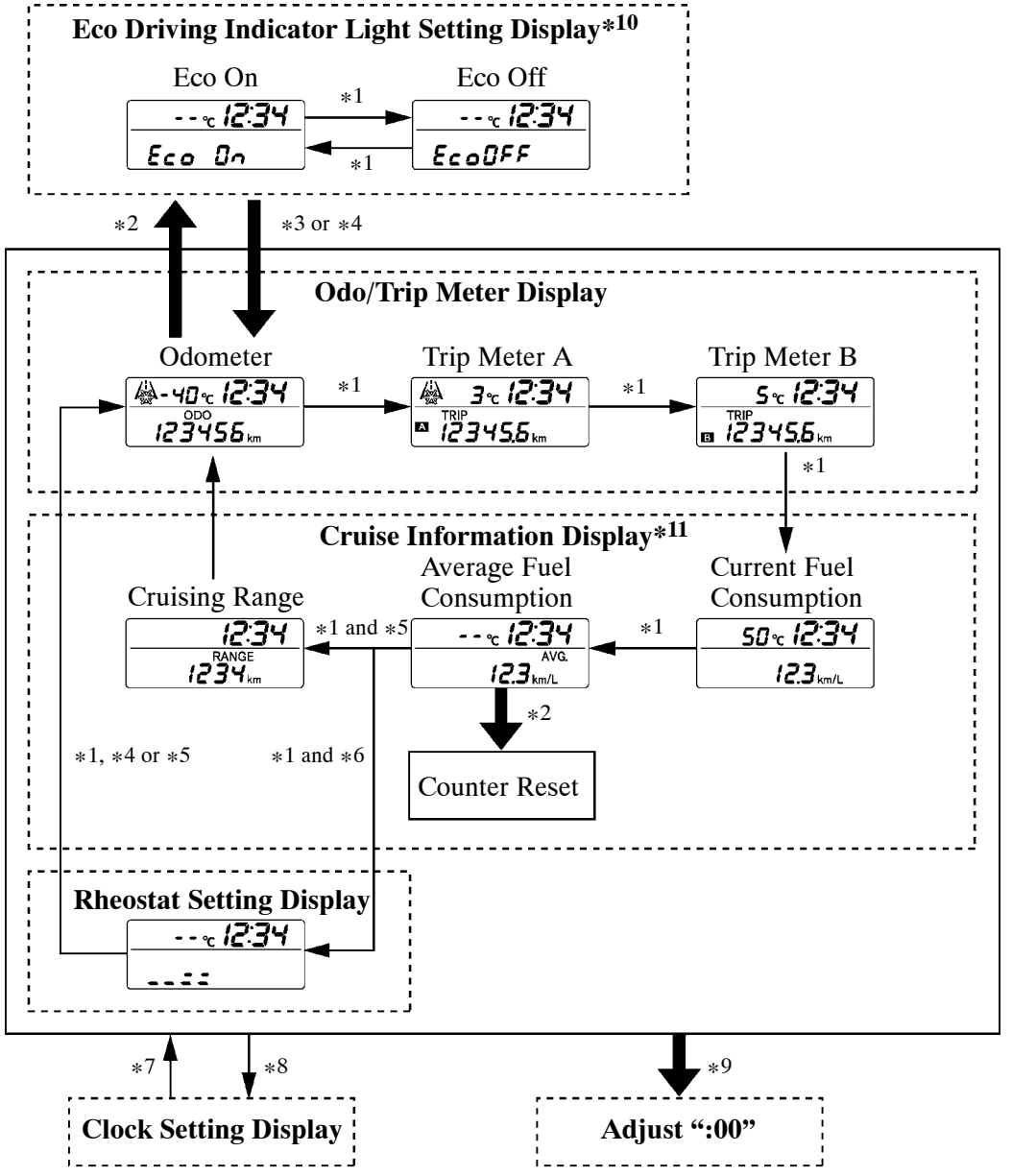
Display Areas	Display Item		Display	Outline
D	Cruise Information*1	Current Fuel Consumption	Dot LCD Type  04Z8BE52	● Displays the value that has been calculated by the meter ECU, which is based on the driven distance and the fuel consumption volume (fuel injection amount signal from the ECM via CAN), provided that the ignition switch or engine switch is turned on (IG). ● The display updates every 0.5 seconds.
		Average Fuel Consumption	Dot LCD Type  04Z8BE53	● Displays the value that has been calculated by the meter ECU, which is based on the driven distance and the fuel consumption volume (fuel injection amount signal from the ECM via CAN). ● The display updates every 10 seconds.
		Cruising Range	Dot LCD Type  04Z8BE55	● Displays the value that has been calculated by the meter ECU, which is based on the fuel consumption data that the meter ECU continuously monitors and stores in its memory, and the residual fuel volume data, provided that the ignition switch or engine switch is turned on (IG). ● The display updates every 10 seconds.
	Eco Driving Indicator Zone Display		Dot LCD Type  04Z8BE54	Eco driving ratio based on acceleration is shown with a bar graph.
	Rheostat Setting		Dot LCD Type  04Z8BE57	Meter panel luminance can be changed.
	Setting		Dot LCD Type  04Z8BE58	The items displayed on the multi-information display can be customized.

(Continued)

Display Areas	Display Item		Display	Outline
E	Odo/Trip Meter	Odometer	Dot LCD Type  04Z8BE106	Displays the odometer.
		Trip Meter A	Dot LCD Type  04Z8BE107	Displays the trip meter A.
		Trip Meter B	Dot LCD Type  04Z8BE108	Displays the trip meter B.

*1: Only some models
*2: Models with A/T

Segment LCD Type Multi-information Display Flowchart



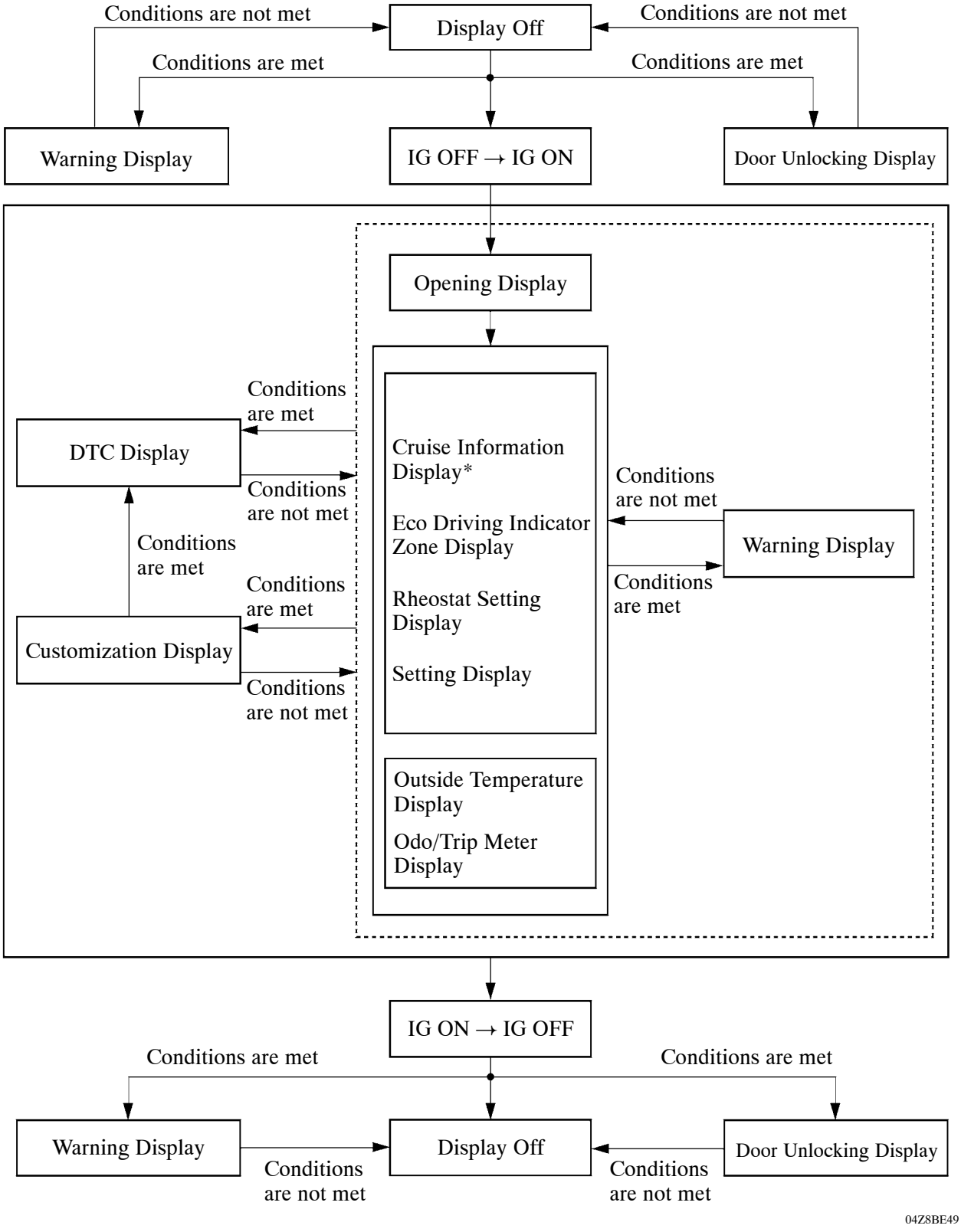
→ : ODO/TRIP switch or CLOCK switch short press

➡ : ODO/TRIP switch or CLOCK switch long press

04Z8BE60

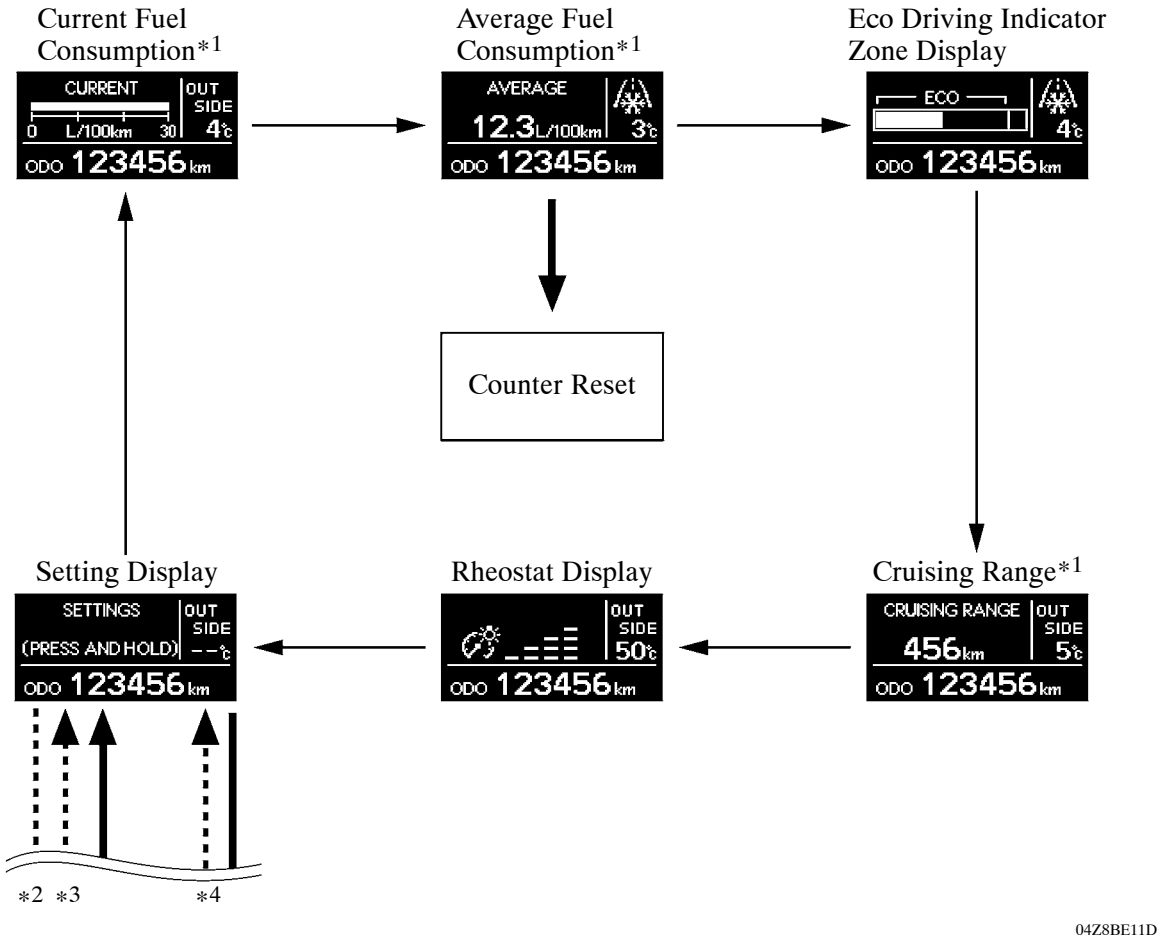
*1: Pressing the ODO/TRIP switch for less than 0.8 seconds.
*2: Pressing the ODO/TRIP switch for 5.0 seconds or more.
*3: Pressing the ODO/TRIP switch for 2.0 seconds or more.
*4: When there is not operation for 10.0 seconds.
*5: When tail light is off.
*6: When tail light is on.
*7: When there is not operation for 5.0 seconds.
*8: Pressing the CLOCK switch for less than 0.8 seconds.
*9: Pressing the CLOCK switch for 0.8 seconds or more.
*10: Models with A/T
*11: Only Some Models

Flow of Dot LCD Type Multi-information Display Indication

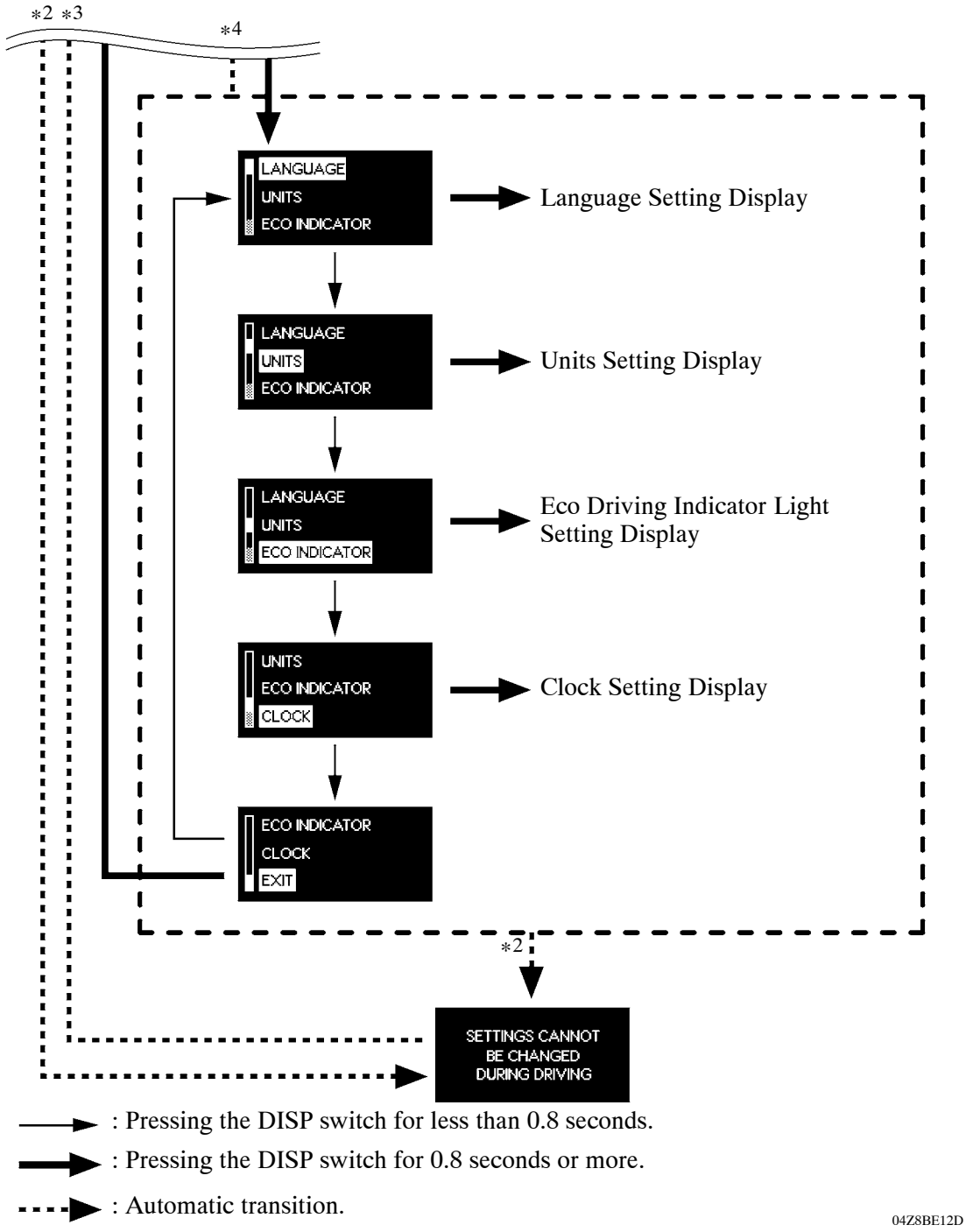


*: Only Some Models

Dot LCD Type Multi-information Display Flowchart

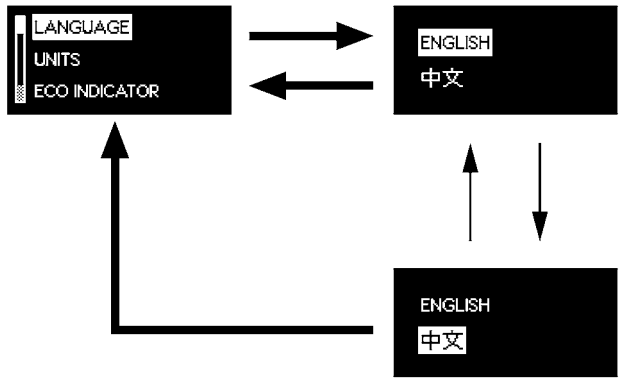


04Z8BE11D



*1: Only Some Models
*2: When vehicle speed is approximately 8 km/h or more.
*3: When vehicle speed is approximately 1.75 km/h or less.
*4: When there is not operation for 10.0 seconds.

▶ Language Setting Display Flowchart ◀

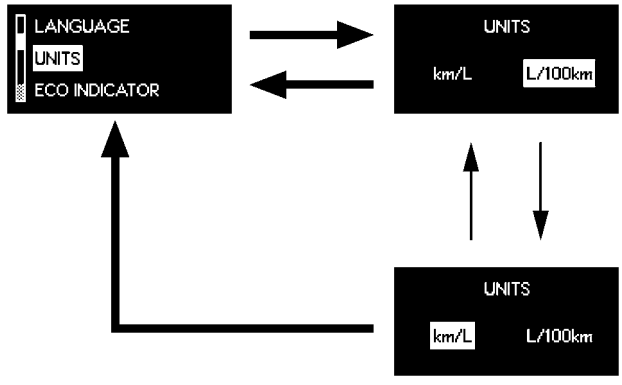


→ : Pressing the DISP switch for less than 0.8 seconds.

➡ : Pressing the DISP switch for 0.8 seconds or more.

04Z8BE13D

▶ Units Setting Display Flowchart ◀

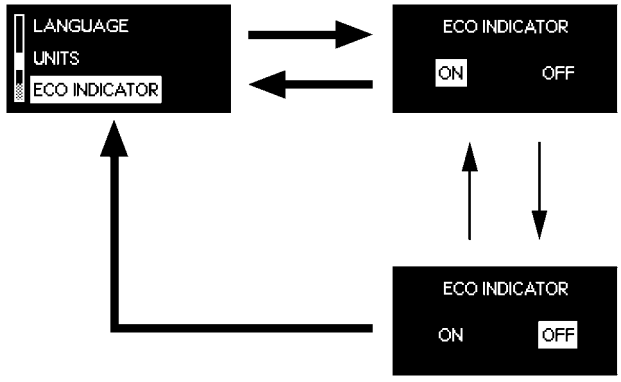


→ : Pressing the DISP switch for less than 0.8 seconds.

➡ : Pressing the DISP switch for 0.8 seconds or more.

04Z8BE14D

▶ Eco Driving Indicator Light Setting Display Flowchart ◀

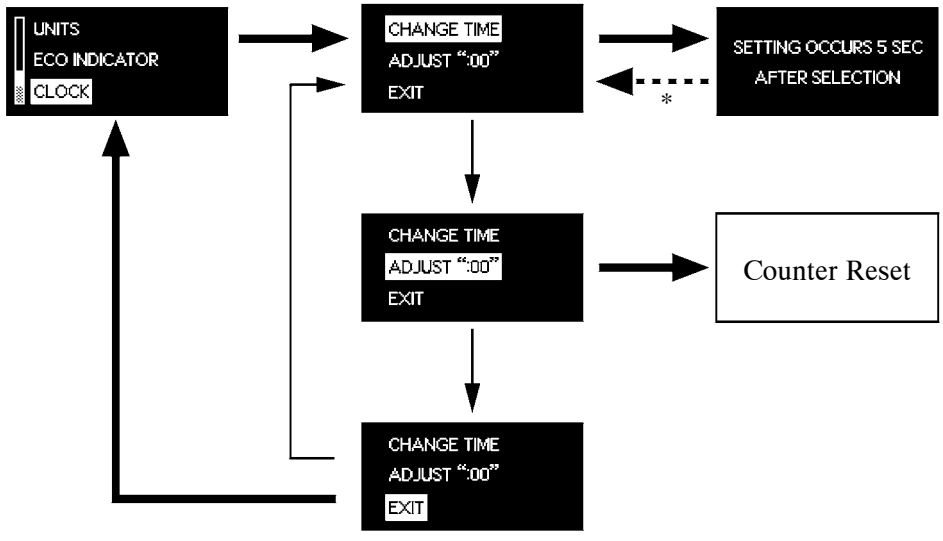


: Pressing the DISP switch for less than 0.8 seconds.

: Pressing the DISP switch for 0.8 seconds or more.

04Z8BE15D

▶ Clock Setting Display Flowchart ◀



: Pressing the DISP switch for less than 0.8 seconds.

: Pressing the DISP switch for 0.8 seconds or more.

: Automatic transition.

04Z8BE16D

*: When there is not operation for 5.0 seconds.

6. Warning Display of Dot LCD Type Multi-information Display

The warning display and the advisory display interrupt the display in the multi-information display if the display conditions are met.

Priority	Display	Master Warning Light	Buzzer	Provide
1	HOLDING IN ENGINE SWITCH WILL CAUSE AN EMERGENCY ENGINE STOP.	Blinks	Sounds	Models with Entry and Start System
	TO RESTART CAR, SHIFT LEVER TO N AND PRESS ENGINE SWITCH.	Blinks	Sounds	Models with Entry and Start System
	THE ENGINE HAS STOPPED. PLEASE PUT SHIFT LEVER INTO P.	Blinks	Sounds	All Models
	THE ENGINE HAS STOPPED. PLEASE STOP YOUR CAR IN A SAFE PLACE.	Blinks	Sounds	All Models
	TO RESTART CAR, SHIFT LEVER TO N AND TURN KEY.	Blinks	Sounds	All Models
2	AUTO POWER OFF TO CONSERVE BATTERY	—	—	All Models
3	SHIFT TO P POSITION WHEN PARKED	Blinks	Sounds	Models with Entry and Start System
4	RELEASE PARKING BRAKE	Blinks	Sounds	All Models
	KEY NOT DETECTED	—	Sounds	Models with Entry and Start System
5	CHECK ENTRY & START SYSTEM	—	Sounds	Models with Entry and Start System
	CHECK CRUISE CONTROL SYSTEM	Illuminates	Sounds	Models with Cruise Control System
	ENGINE OIL PRESSURE LOW	Illuminates	Sounds	All Models

(Continued)

Priority	Display	Master Warning Light	Buzzer	Provide
6	TURN POWER OFF	Blinks	Sounds	Models with Entry and Start System
	KEY DETECTED IN VEHICLE	Blinks	Sounds	Models with Entry and Start System
	DEPRESS BRAKE PEDAL, TOUCH ENGINE SWITCH WITH KEY	—	Sounds	Models with Entry and Start System
	DEPRESS BRAKE PEDAL AND PUSH ENGINE SWITCH TO START	—	—	Models with Entry and Start System
	DEPRESS BRAKE PEDAL AND PUSH ENGINE SWITCH TO START	—	Sounds	Models with Entry and Start System
7	STEERING LOCK ACTIVE	—	Sounds	Models with Entry and Start System
	BRAKE OVERRIDE SYSTEM FAILURE.	Illuminates	Sounds	All Models
8	KEY BATTERY LOW	—	Sounds	Models with Entry and Start System
	DRAIN WATER FROM FUEL FILTER	Illuminates	Sounds	Models with Diesel Engine
	ENGINE OIL LOW	Illuminates	Sounds	All Models
	CHECK HEADLIGHT SYSTEM	Illuminates	Sounds	Models with LED Headlight Assembly
	BOTH ACCELERATOR AND BRAKE PEDALS ARE DEPRESSED.	Blinks	—	All Models
9	T-BELT MAINTENANCE REQUIRED	—	—	Models with Diesel Engine
	DEPRESS BRAKE PEDAL AND PUSH ENGINE SWITCH TO START	—	—	Models with Entry and Start System