

LZ BUSLINE CAN System User Manual

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1, ArchitectureThis CAN system is composed of 1 MultIC and 4 IOUs. The 3 IOUs are Front IOU(2), Middle IOU(3) and Rear IOU(4).

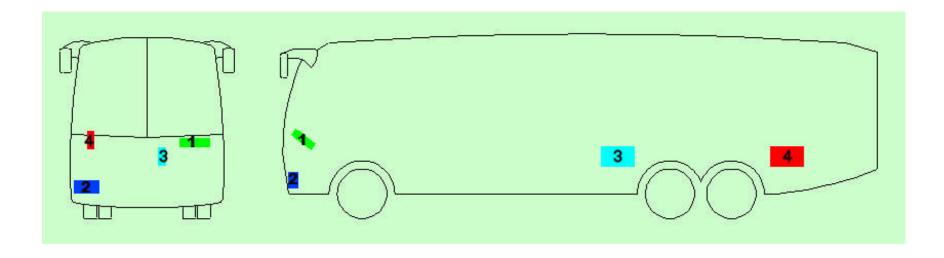
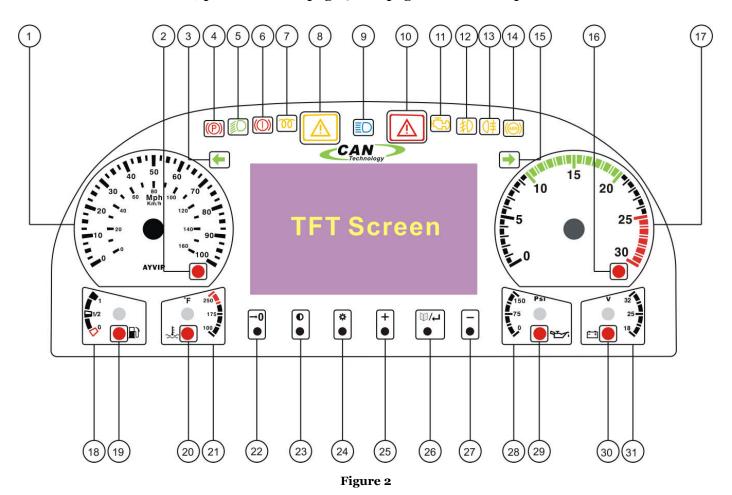


Figure 1

: MultIC Front IOU Middle IOU : Rear IOU

2, MultIC Dial Face

Figure 2 is the dial face of the MultIC, please refer to page 5 and page 6 for their explanation.



1	Vehicle Speed Gauge
	Outside MPH
	Inside KPH
2	Over Speed Indication
	When the Vehicle Speed is more than 75MPH/120KM, the Red LED inside will turn ON, at the same time, Buzzer will beep for 1 Second
3	Turn Left Indication
	The Green LED will flashing and the Buzzer will beep according to Turn Left Light
4	Hand Brake Indication
	When Hand Brake is ON, the Red LED inside will turn ON
5	Low Beam Indication
	When the Low Beam is ON, the Green LED inside will turn ON
6	Air Pressure Alarm Indication
	Air Pressure is too low, the Red LED inside will turn ON, at the same time, the Buzzer will sound
7	Engine Preheat Indication
	When the Engine is preheating, the Yellow LED inside will turn ON
8	Service Light
	If any faults are detected, the Yellow LED inside will turn ON and at the same time the fault Message will be displayed on the TFT Screen. For example, if the Low Beams encounter a fault, the Service Light will turn ON and a fault Message will display on the TFT Screen
9	High Beam Indication
	When the High Beam is ON, the Blue LED inside will turn ON
10	Stop Light
	Any of the following faults are detected, the Red LED inside will turn ON and at the same time, the Buzzer will beep for 3 seconds. If
	the Driver finds this light is ON, he must stop the coach and resolve the problem
	Low Air Pressure
	High Coolant Temperature
	Low Oil Pressure
	Low Coolant Level
	Disc Brake pad wear indicator
11	Engine Flash Code
	This Yellow LED will flash according to the Engine Fault Code
12	Front Fog Light Indication
	When the Front Fog Light is ON, the Yellow LED inside will turn ON

13	Rear Fog Light Indication When the Rear Fog Light is ON, the Yellow LED inside will turn ON
14	
14	ABS Warning Light
	When ABS encounters a fault, the Yellow LED inside will turn ON
15	Right Turn Indication
	The Green LED will flashing and the Buzzer will beep according to Right Turn Light
16	Over RPM Indication
	When the Engine RPM is more than 3000 RPM, the Red LED inside will turn on
17	
	RPM Gauge
18	Fuel Level Gauge
19	Low Fuel Level Alarm Indication
	If the Fuel Level is less than 10%, the Red LED inside will turn ON
20	High Coolant Temperature Alarm Indication
	When the Coolant Temperature is, the Red LED inside will turn ON
21	Coolant Temperature Gauge
22	
22	Reset Button
	Please see page 12 as reference
23	Brightness Button
	Please see page 12 as reference
24	Contrast Button
	Please see page 12 as reference
25	Adjust + Button
	Please see page 12 as reference
26	Menu Button
20	
07	Please see page 12 as reference
27	Adjust - Button
	Please see page 12 as reference
28	Oil Pressure Gauge
29	Low Oil Pressure Warning Indication
	If the Oil Pressure is less than 15 Psi, the Red LED inside will turn ON
30	Low Voltage or High Voltage Warning Indication
	If the Voltage is lower than 23V or higher than 30V, the Red LED inside will turn ON
31	Voltage Gauge
31	voltage dauge

TFT Screen 3,

The TFT Screen has three states:

- a) Normal State
- b) Diagnostic Screen State
- c) Monitor State

a. Normal State:

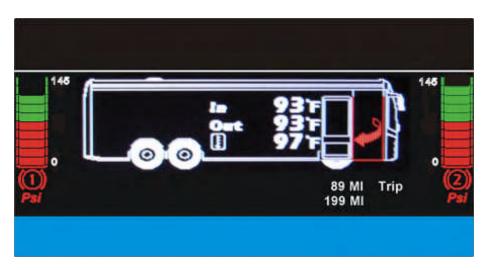


Figure 3

When the system is in a normal state, the TFT Screen should be like Figure 3. According to this screen, we know the following information:

<u>In:</u> Coach Inside Temperature.

Out: Coach Outside Temperature.

Engine Cabin Temperature.

Left Gauge: Air Pressure (1) Gauge is normal.

<u>Right Gauge:</u> Air Pressure (2) Gauge is normal.

89 Ml: Trip, unit is miles.

199 Ml: Odometer, unit is miles.

When the front door is open, the front door of the coach on TFT will open and close frequently to indicate driver that the door is opened.

When the engine compartment door is open, a small door in back of the coach on TFT will open and close frequently to indicate driver that the engine compartment door is opened.

When the CAN system detects a fault, a Warning Message(s) will be displayed on the blue area on the bottom of the TFT.

Indication Symbols: Please see page 7 and page 8 for symbol reference.

The indication symbols are in the top row of the TFT Screen (located in A - N Place, Figure 4), see pages 9 and 10 for their explanations:

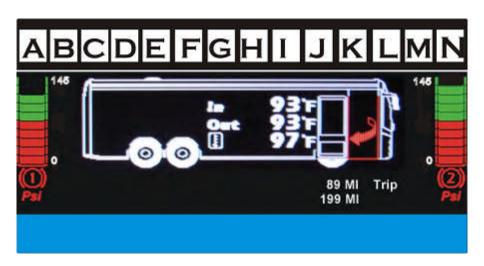
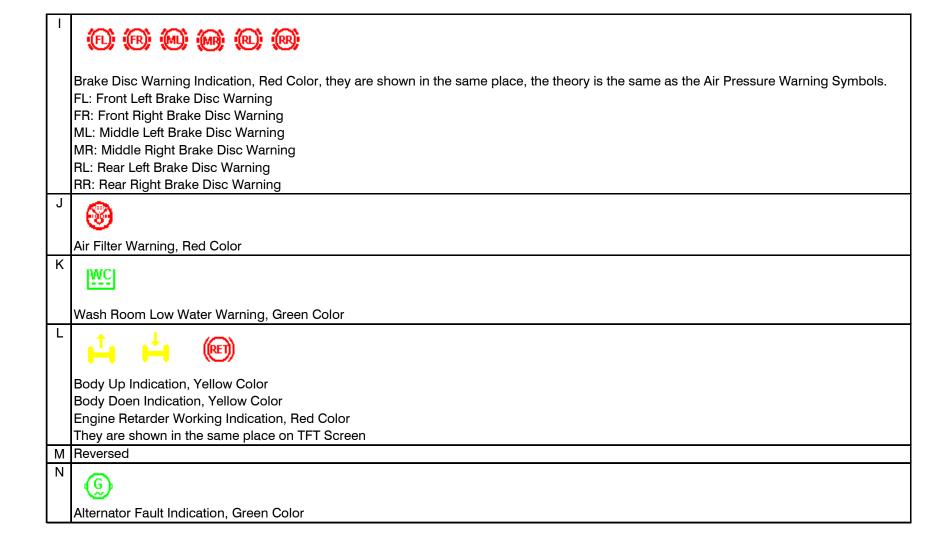


Figure 4

Low Coolant Level Warning, Red Color Reversed ASR Working Indication, Yellow Color Position Light Working Indication, Yellow Color Charging Indication, Red Color Engine Cabin Open Indication, Red Color G 45678999Gear indication, Only the Neturi Gear is Green Color, other Gears are white Color. These Symbols are shown in the same place on the TFT Screen. Н Low Air Pressure Warning (Air Pressure 1 Warning and Air Pressure 2 Warning), Red Color, these two symbols are shown in the same place on TFT Screen. If both system pressures are in the Red on the Bar Graph Display, an Exclamation (!) mark is shown until one of the system pressures goes into the Green on the Bar Graph Display.



b. Diagnostic Screen State

Press the Menu Button for 3 seconds, we can change the TFT Screen from Normal State to Diagnostic Screen State. Figure 5 is a standard diagnostic screen.

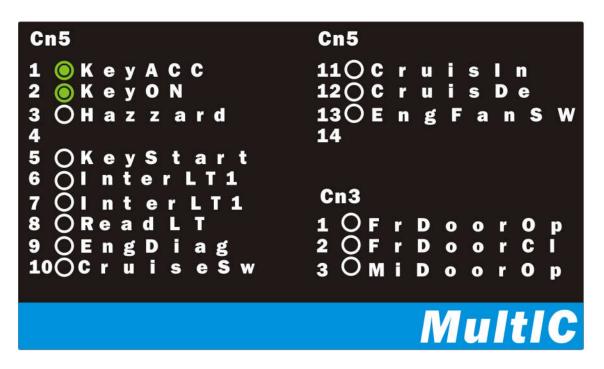


Figure 5

c. Monitor State

When the coach is reversing or you turn on the Reverse Monitor Switch, the TFT Screen will be changed to the Monitor State, this function is just like a normal color reverse monitor.

4. Buttons

Reset Button

This button has two functions:

In normal screen: press this button for 3 seconds, the trip can be reset to zero;

In diagnostic screen: press this button for 3 seconds, the fault count can be reset to zero.

Brightness Button

When the TFT Screen is used for reverse monitor, this button is used to turn on the Brightness Function.

Contrast Button

When the TFT Screen is used for reverse monitor, this button is used to turn on the Contrast Function.

Adjust + Button

This button has four functions:

When the TFT Screen is in monitor state and the Brightness Function is turned on, each press will make the TFT brighter, until the TFT reaches it's brightest;

When the TFT Screen is monitor state and the Contrast Function is turned on, each press will make the TFT's contrast lighter until the TFT is at its highest contrast;

When the position light is turned on, each press will adjust the backlight of MulitIC.

When the TFT Screen is in it's diagnostic screen state, each press will shift the screen page.

Menu Button

This button is used for shifting the normal screen and diagnostic screen, press this button for 3 seconds, the screen will shift to the diagnostic screen. Because the diagnostic screen has multiple pages, use the Adjust + Button or Adjust – Button to scroll through the pages of the diagnostic screen.

Adjust - Button

This Button has four functions and all of functions are just opposite functions of the Adjust + Button.

5. Warning Notice

- When you are welding on the coach, you must disconnect the MultIC and IOUs from the power supply and disconnect the batteries;
- Do not directly spill or spray any liquid on the MultIC and IOUs;
- Do not allow objects to touch Lens MultIC;
- When the Stop Light is ON, you must stop the coach and solve the problem;