



**ILESBUS**

**WHEN QUALITY COUNTS**

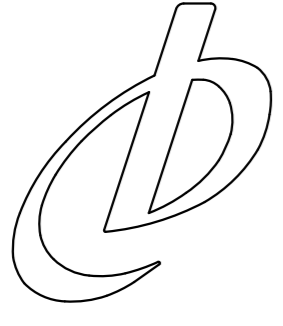
# **User's Manual**

**Mercedes-Benz Sprinter**

**VIN NUMBER : W1V5MD3Z6 SP 737198**

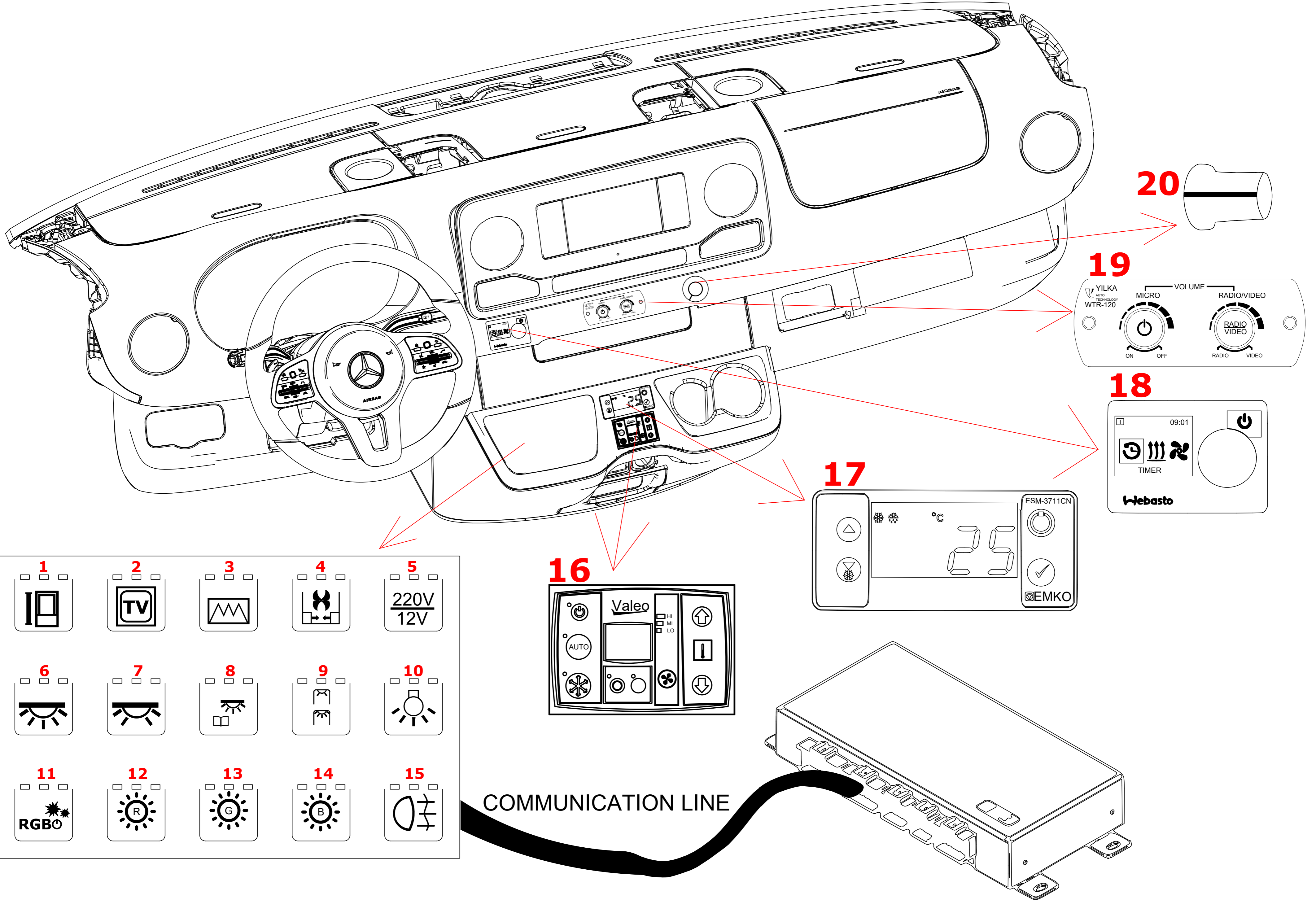
**2025, Bursa/Türkiye**

**[www.ilesbus.com](http://www.ilesbus.com)**



**İLESBUS**  
WHEN QUALITY COUNTS

# Sprinter Tourism



## BUTTON DESCRIPTION

	<b>DOOR BUTTON</b> :CONTROLS THE OPENING AND CLOSING OF THE DOOR.THREE LED INDICATORS ARE ON WHEN THE DOOR BUTTON IS PRESSED.
	<b>TV BUTTON</b> :TURNS ON/OFF THE TV.THREE LED INDICATORS ARE ON WHEN THE TV BUTTON IS PRESSED.
	<b>DOOR GLASS RESISTANCE BUTTON</b> :HEATS UP THE DOOR GLASS AND QUARTER GLASS. THREE LED INDICATORS ARE ON WHEN THE DOOR GLASS RESISTANCE IS PRESSED.
	<b>FAN BUTTON</b> :TURNS ON/OFF THE HEATER FANS.THREE LED INDICATORS ARE ON WHEN THE FAN BUTTON IS PRESSED.
	<b>INVERTER BUTTON</b> :TURNS ON/OFF THE INVERTER.THREE LED INDICATORS ARE ON WHEN THE INVERTER BUTTON IS PRESSED.

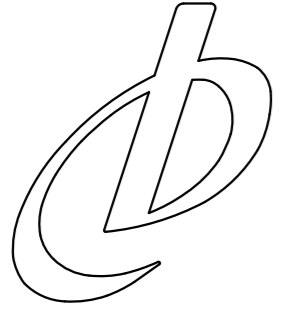
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

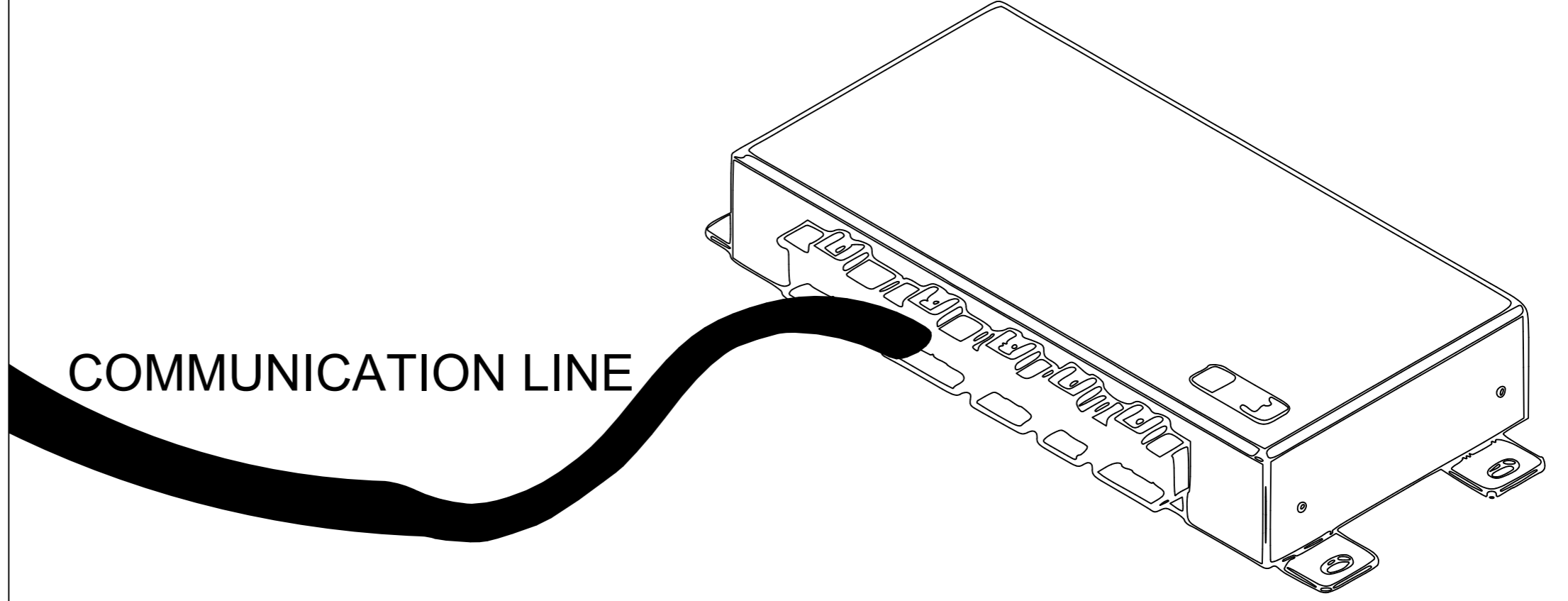
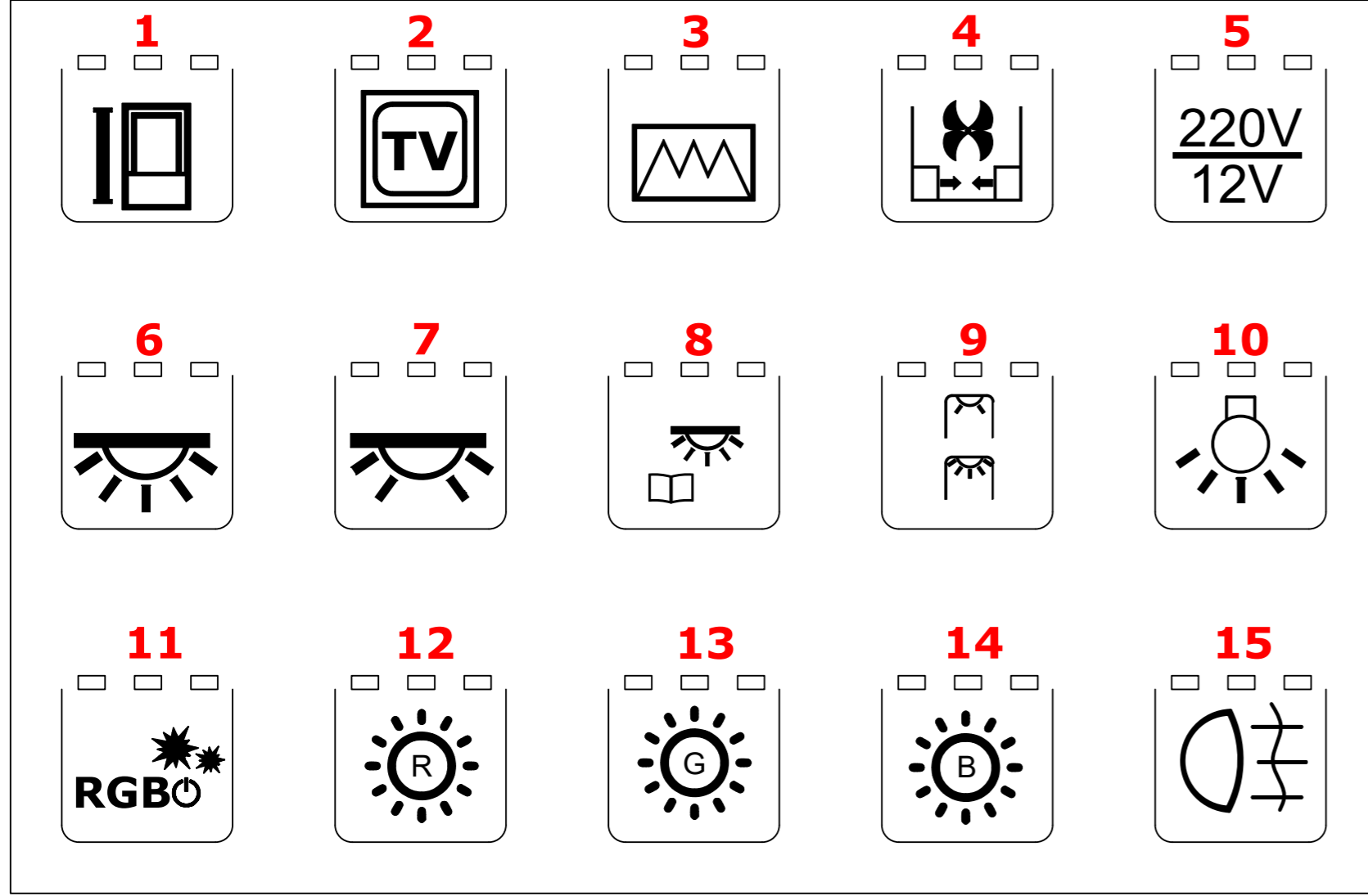
Mail:info@ilesbus.com



**İLESBUS**  
WHEN QUALITY COUNTS

# Sprinter Tourism

\*THE BUTTONS ARE CONNECTED THE CAN PINS OF THE MULTIPLEXER.  
\*CAN PINS LOCATION ARE AT THE 18 PIN CONNECTOR.



## BUTTON DESCRIPTION

	<b>RACK WHITE &amp; BLUE LIGHTS BUTTON</b> :THE WHITE LIGHTS TURN ON AT LOW BRIGHTNESS AND A SINGLE LED INDICATOR LIGHTS UP, WHEN THE BUTTON IS PRESSED FOR THE FIRST TIME.THE WIGHT LIGHTS ON AT HIGH BRIGHTNESS AND TWO LED INDICATORS LIGHT UP, WHEN THE BUTTON IS PRESSED SECOND TIME.THE BLUE LIGHTS TURN ON AT LOW BRIGHTNESS AND A SINGLE LED INDICATOR LIGHTS UP, WHEN THE BUTTON IS PRESSED A THIRD TIME.THE BLUE LIGHTS TURN ON AT HIGH BRIGHTNESS AND TWO LED INDICATORS LIGHTS UP, WHEN THE BUTTON IS PRESSED FOURTH TIME.
	<b>RACK &amp; TABLE DAYLIGHTS BUTTON</b> :THE DAYLIGHTS TURN ON AT LOW BRIGHTNESS AND A SINGLE LED INDICATOR LIGHTS UP, WHEN THE BUTTON IS PRESSED FOR THE FIRST TIME.THE WHITE LIGHTS ON AT HIGH BRIGHTNESS AND TWO LED INDICATOR LIGHT UP, WHEN THE BUTTON IS PRESSED SECOND TIME.
	<b>READING LIGHTS BUTTON</b> :TURNS ON/OFF THE READING LIGHTS.THREE LED INDICATORS ARE ON WHEN THE READING LIGHTS BUTTON IS PRESSED.
	<b>AISLE LIGHTS BUTTON</b> :THE BLUE LIGHTS TURN ON AND TWO LED INDICATORS LIGHT UP, WHEN THE BUTTON IS PRESSED FIRST TIME.THE WHITE LIGHTS TURN ON AND TWO LED INDICATORS LIGHT UP , WHEN THE BUTTON IS PRESSED SECOND TIME.
	<b>PROJECTORS BUTTON</b> :ALLOWS TO CONTROL PROJECTORS.
	<b>RGB BUTTON</b> :THE RGB LIGHTS TURN ON AT LOW BRIGHTNESS AND A SINGLE LED INDICATOR LIGHTS UP, WHEN THE BUTTON IS PRESSED FOR FIRST TIME.THE RGB LIGHTS TURN ON AT MEDIUM BRIGHTNESS AND TWO LED INDICATOR LIGHT UP, WHEN THE BUTTON IS PRESSED SECOND TIME.THE RGB LIGHTS TURN ON HIGH BRIGHTNESS AND THREE LED INDICATOR LIGHTS UP, WHEN THE BUTTON IS PRESSED THIRD TIME.
	<b>RGB RED LIGHTS BUTTON</b> :TURNS ON/OFF THE RED LIGHTS.THREE LED INDICATORS ARE ON WHEN THE RGB RED LIGHTS BUTTON IS PRESSED.
	<b>RGB GREEN LIGHTS BUTTON</b> :TURNS ON/OFF THE GREEN LIGHTS.THREE LED INDICATORS ARE ON WHEN THE RGB GREEN LIGHTS BUTTON IS PRESSED.
	<b>RGB BLUE LIGHTS BUTTON</b> :TURNS ON/OFF THE BLUE LIGHTS.THREE LED INDICATORS ARE ON WHEN THE RGB BLUE LIGHTS BUTTON IS PRESSED.
	<b>DAYTIME RUNNING LIGHTS BUTTON</b> :TURNS ON/OFF THE DAYTIME RUNNING LIGHTS. THREE LED INDICATORS ARE ON WHEN THE DAYTIME RUNNING LIGHTS BUTTON IS PRESSED.

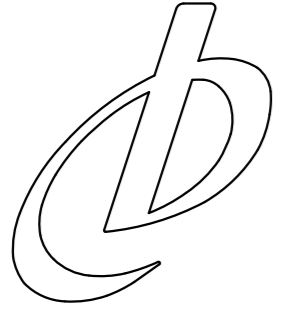
## İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

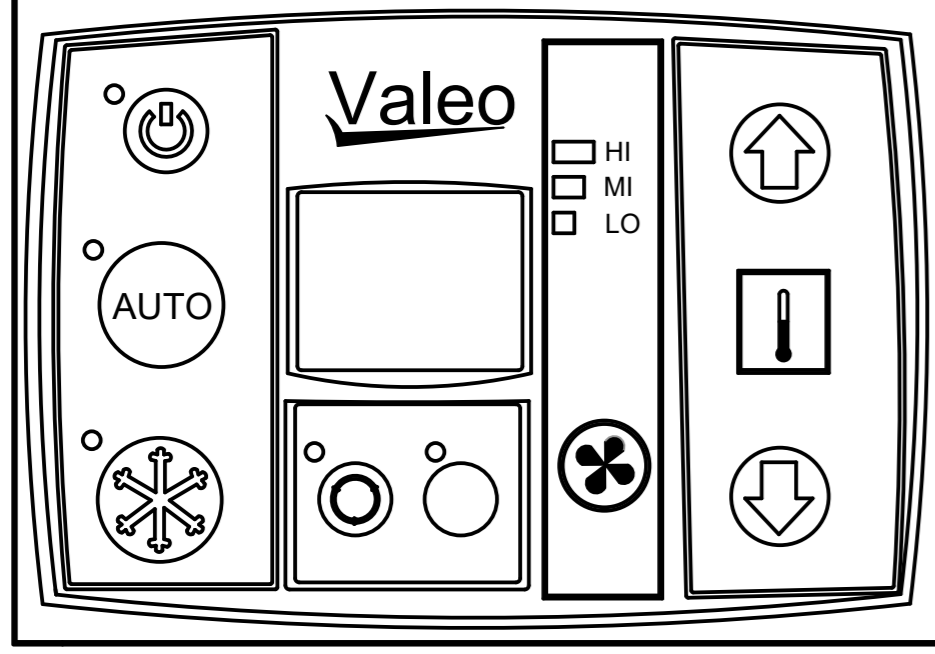
Fax:+90 224 243 33 85

Mail:info@ilesbus.com

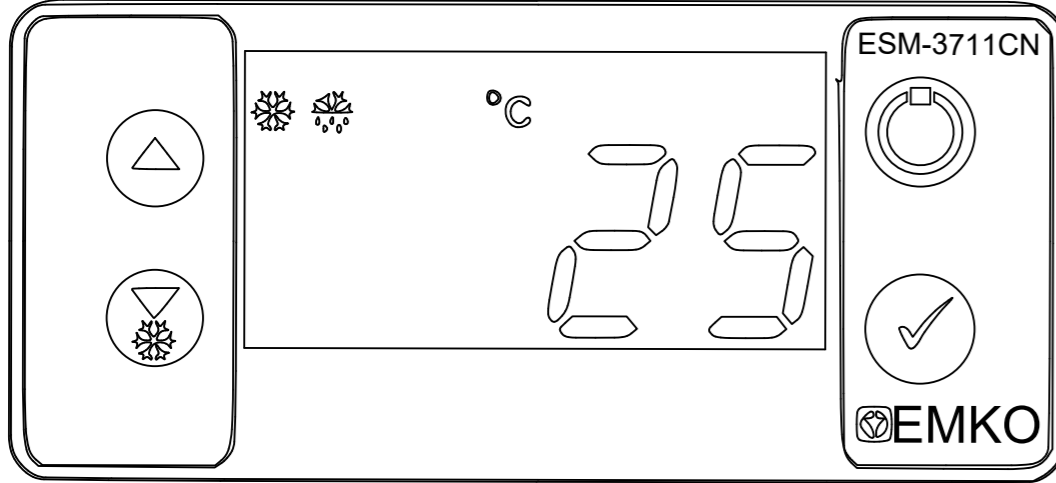


**ILESBUS**  
WHEN QUALITY COUNTS

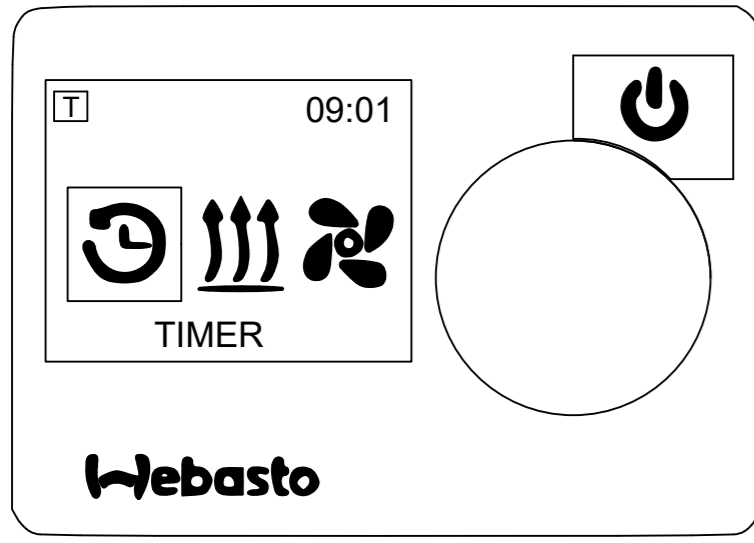
# Sprinter Tourism



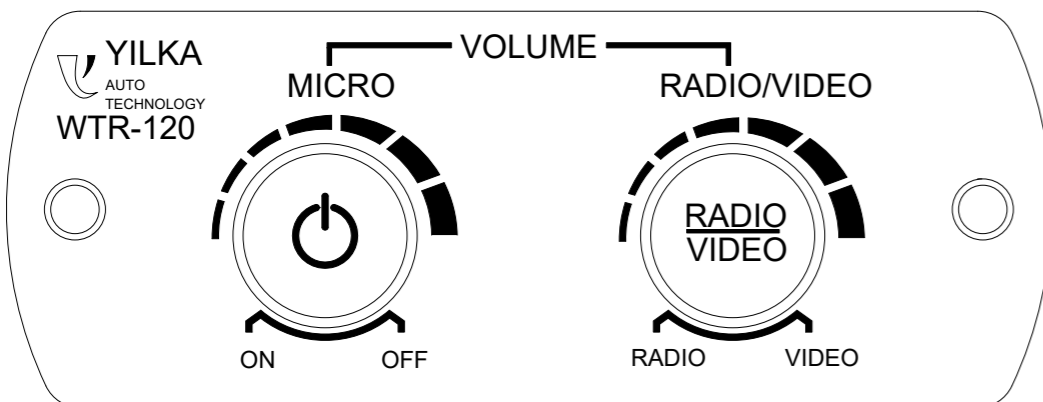
**AIR CONDITIONING CONTROL PANEL** :TURNS ON/OFF THE A/C.  
CONTROLS THE TEMPERATURE AND FAN LEVEL.



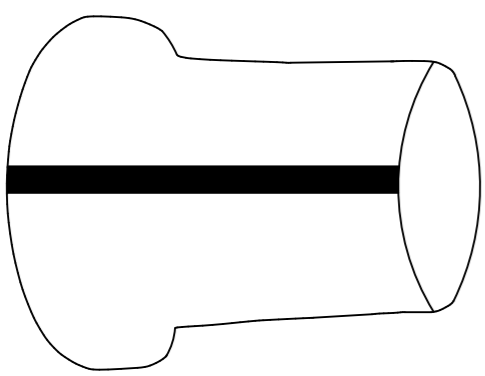
**HEATING RADIATOR / INDICATOR** :ALLOWS TO CONTROL  
THE TEMPERATURE INSIDE THE VEHICLE.



**WEBASTO CONTROL PANEL** :ALLOWS TO CONTROL OPTIMAL  
TEMPERATURE OF THE VEHICLE.



**YILKA CONTROL PANEL** :ALLOWS TO CONTROL THE RADIO  
AND VIDEO VOLUMES.



**MICROPHONE VOLUME CONTROL** :ALLOWS TO CONTROL  
MICROPHONE VOLUMES.

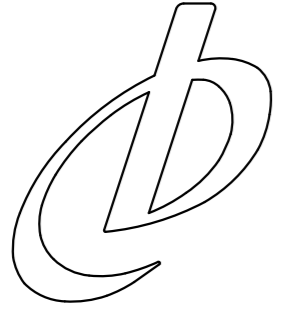
## İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

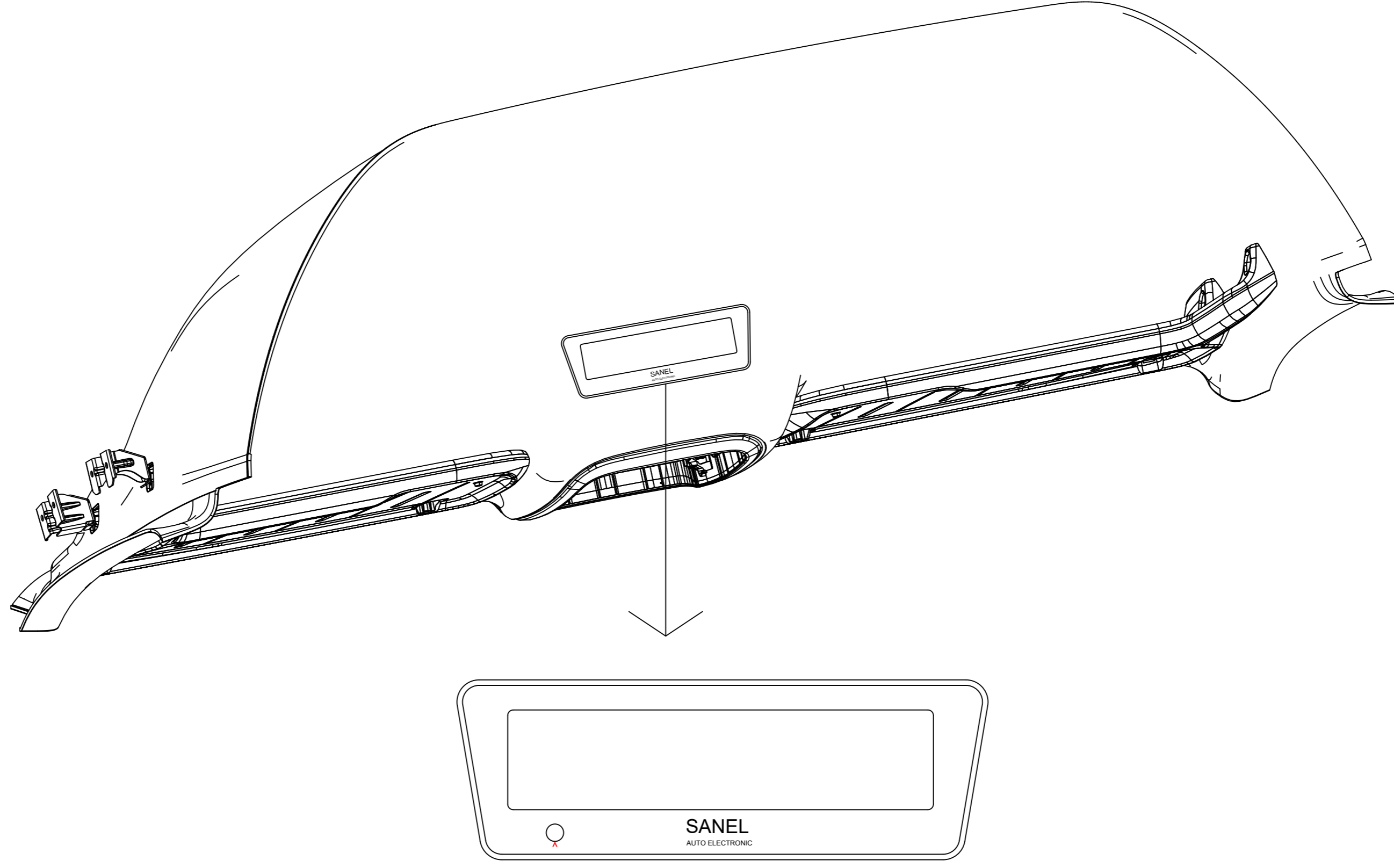
Fax:+90 224 243 33 85

Mail:info@ilesbus.com



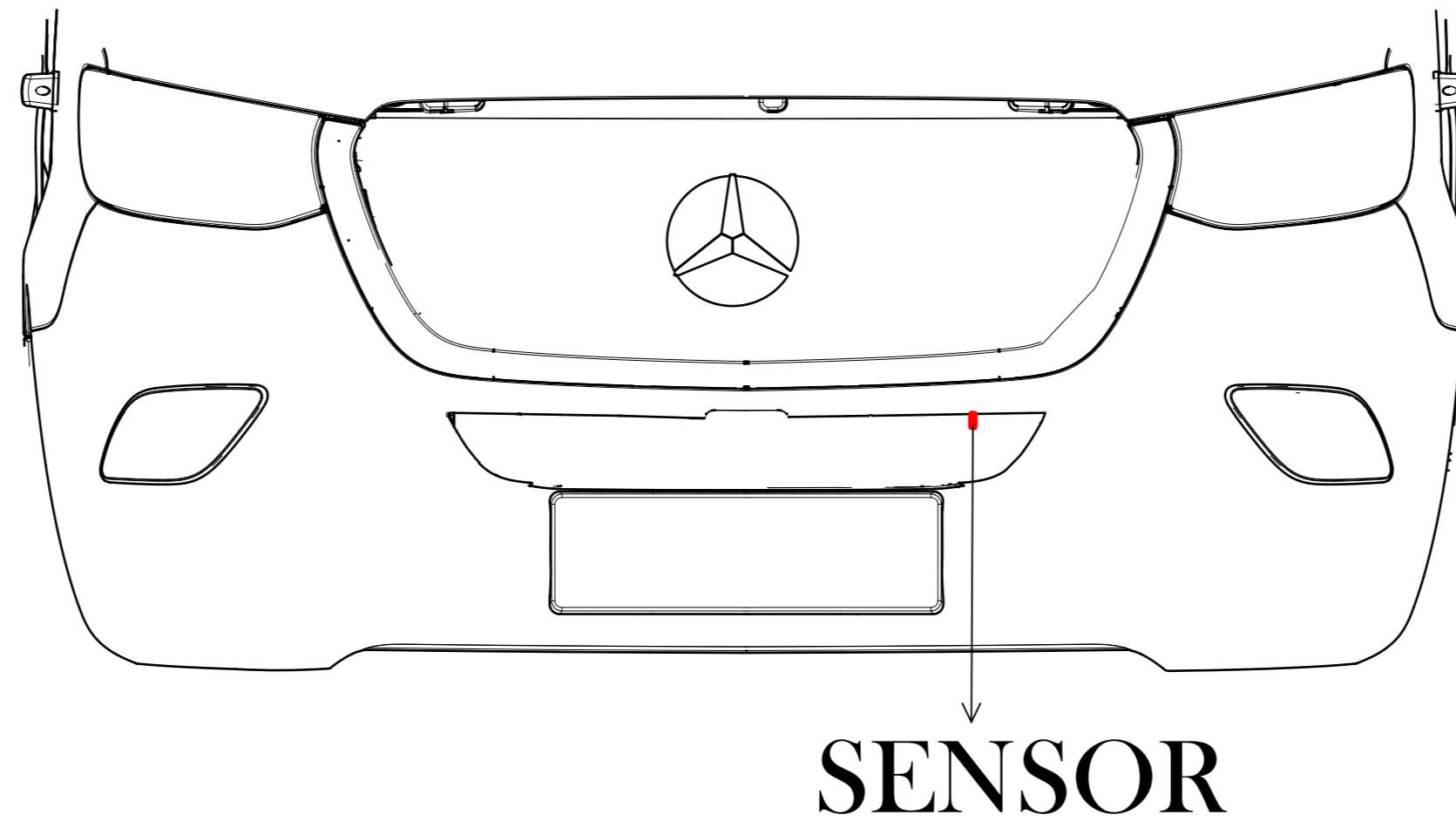
**ILESBUS**  
WHEN QUALITY COUNTS

## Digital Clock



### Manual / Important Notes:

- Digital display shows time,inside and outside temperature.
- You can adjust the time by the button on device shown on the picture above.
- The inner temperature sensor of device is located behind the display.
- The outside temperature sensor is located over the bumper outside in a hall.



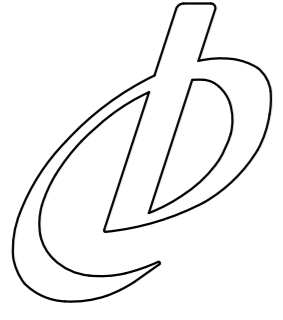
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com

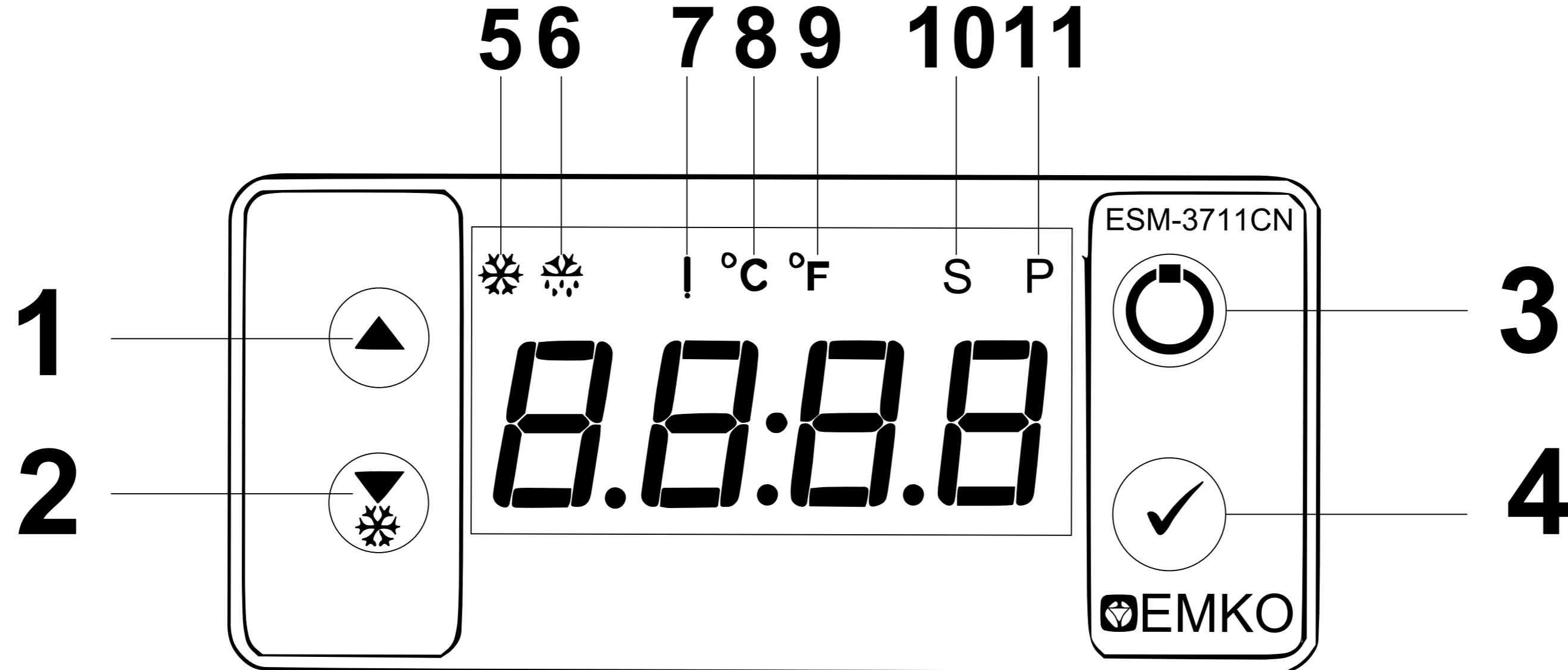


# ILESBUS

WHEN QUALITY COUNTS

## Heating Controller

\*\*The Emko control panel is programmed by Ilesbus.  
\*\*The system activates when the temperature drops below 20 degrees and deactivates when it exceeds 25 degrees.



### BUTTON DEFINITIONS

#### 1 . Increment Button :

\*\*It is used to increase the value in the Set screen, Defrost screen and Programming mode.

#### 2 . Decrement, Silencing Buzzer and Downloading to Prokey Button :

\*\*It is used to decrease the value in the Set screen, Defrost screen and Programming mode.

\*\*It is used to silence the buzzer.

\*\*If Prc =0, it is used to download from device to prokey.

#### 3 . Defrost Button :

\*\*In the main operation screen; if this button pressed, defrost time value will be displayed.

\*\*In the main operation screen; if this button pressed for 3 seconds, manual defrost starts.

#### 4 . Set Button :

\*\*In the main operation screen; if this button pressed, set value will be displayed.

Value can be changed using increment and decrement buttons. When Set button pressed again, value is saved and returns back to main operating screen.

\*\*To access the programming screen; in the main operation screen, press this button for 5 seconds.

\*\*It is used to saving value in the Set screen, Defrost screen and programming screen.

### LED DEFINITIONS

#### 5. Compressor output led :

\*\*This led indicates that compressor output is active. If any of compressor protection time active, this led blinks.

#### 6. Defrost led :

\*\*This led indicates that defrost output is active.

\*\*Blinks once in a second while Defrost delay time.

\*\*Blinks (5 Hz) while entering Defrost time value.

#### 7. Alarm led :

\*\*It is active when low alarm and high alarm statuses.

#### 8. Celcius led :

\*\*Indicates that device is in °C mode.

#### 9. Fahrenheit led :

\*\*Indicates that device is in °F mode.

#### 10. Set led :

\*\*Indicates that device is in Set value changing mode.

#### 11. Program led:

\*\*Blinks in programming mode.

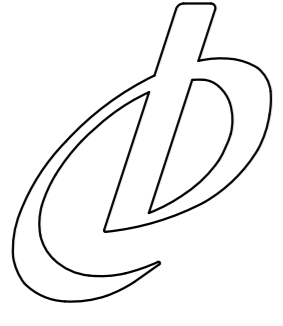
## İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## SPHEROS 10 kW

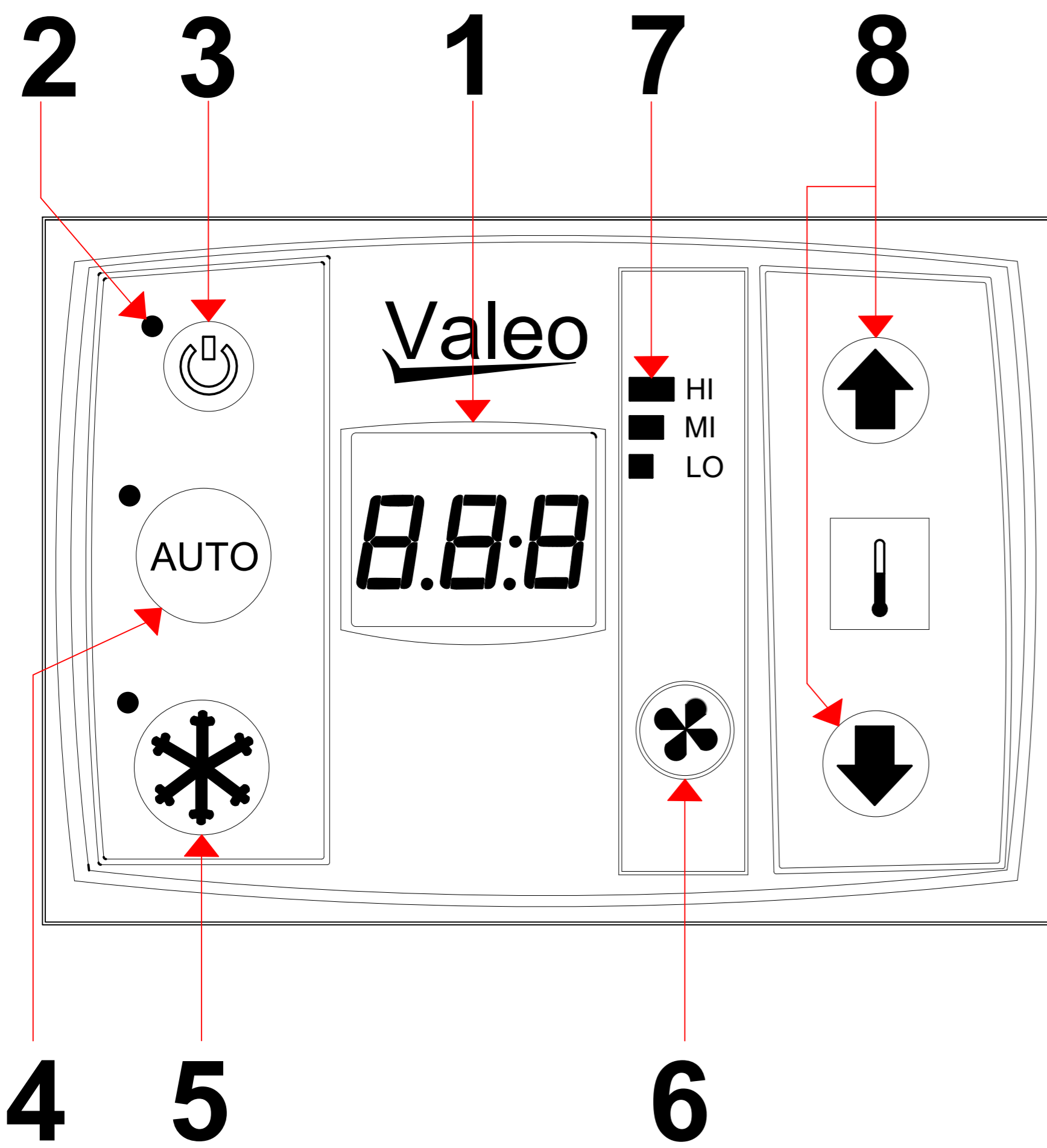
### 2 Control elements and display

#### 2.1. Control Panels

Two Minisphere control panels are available:

- SC400 Control panel for Minisphere 100/130 AC units
- SC410 Control panel for Minisphere 100/130 HAC-, VAC- and HVAC units

The control panel provides all control elements and indicators for system settings, operating mode selection and operating indication. The control elements of the two control panels feature largely the same components. Below these are named for both versions and described their function.



Description	Function
1. Display	Displays current room temperature and error codes
2. Status light	Shows whether function is active
3. On/Off button	On/Off switching of the control panel
4. Auto mode button	Activates the auto mode
5. AC button	On/Off switching of the AC unit
6. Fan speed level button	Controls fan speed level
7. Status light fan speed level	Shows the current fan speed level
8. Temperature	Adjustment of the desired temperature

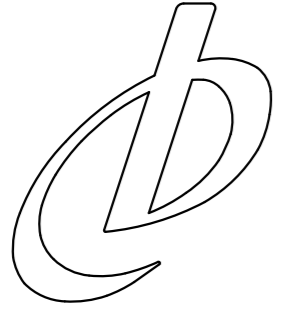
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## SPHEROS 10 kW

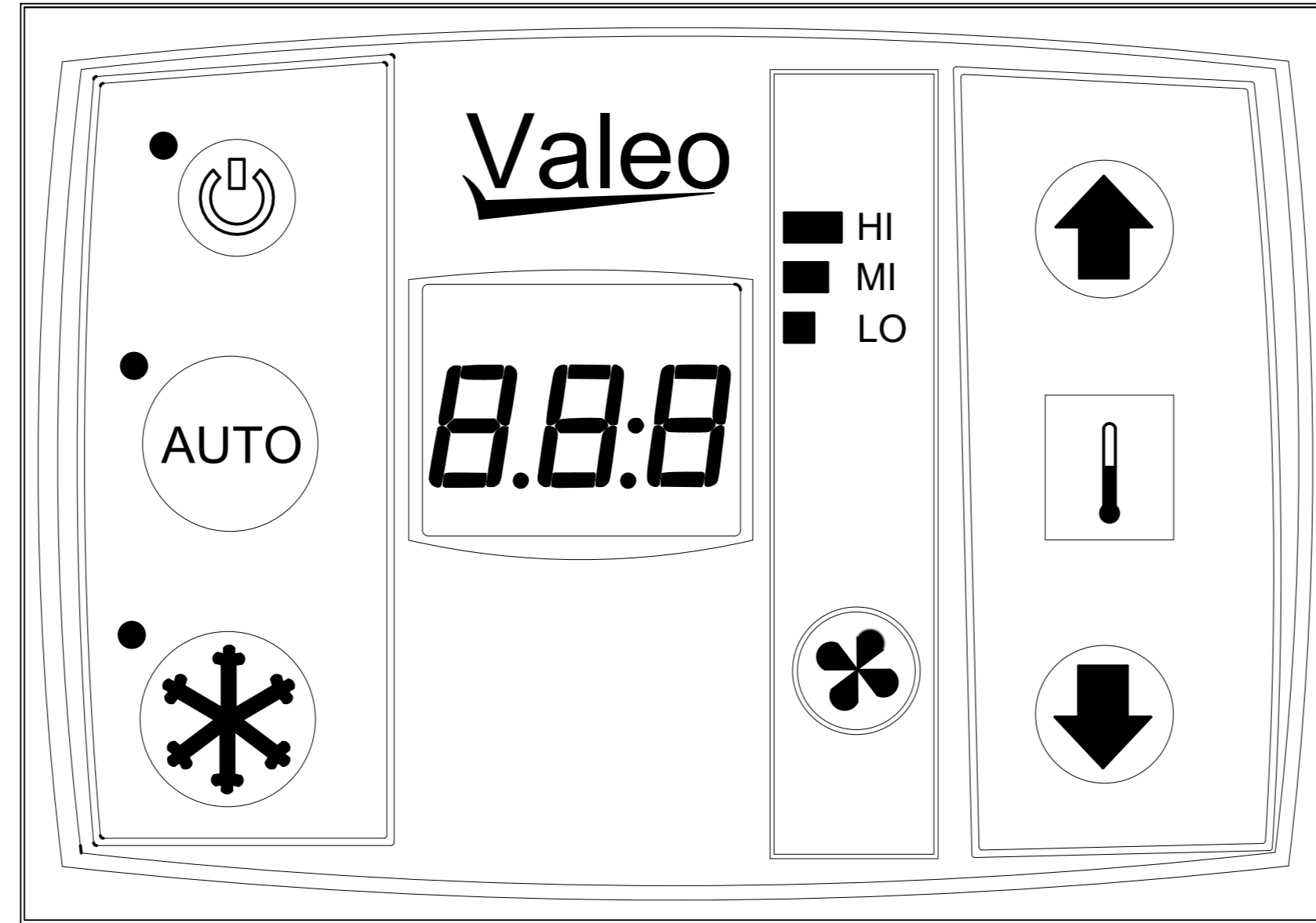


Fig. 17 : SC410 Errors

### 2.2.9 Error Code Description

Error Code	Component	Reason	Remedy
F00	Clutch / compressor	Defective or not properly hooked up	-Check wiring harness -Replace pressure switch -Replace compressor -Replace ECU
F01	Operating voltage	Operating voltage <10 V (12 V)	-Check wiring harness -Replace ECU
F02	System	No 12V system recognized	-Check wiring harness -Replace ECU
F03	System	No basic or standard system recognized	-Replace ECU
F04	Inside temperature sensor	Short circuit to plus pole	-Check wiring harness -Replace sensor -Replace ECU

Error Code	Component	Reason	Remedy
F05	Inside temperature sensor	Short circuit to ground	-Check wiring harness -Replace sensor -Replace ECU
F06	Outside temperature sensor	Short circuit to plus pole	-Check wiring harness -Replace sensor -Replace ECU
F07	Outside temperature sensor	Short circuit to ground	-Check wiring harness -Replace sensor -Replace ECU
F08	Memory module	No access to EEPROM/ no data consistency	-Replace ECU
F09	Water valve	Water valve cannot be calibrated or brought into the correct position	-Water valve / sensor -Genuine parts used? -Replace acc. to spare parts list
F10	Clutch	Repeated occurrence of the clutch error	-See remedy F00

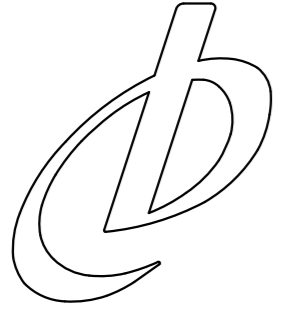
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

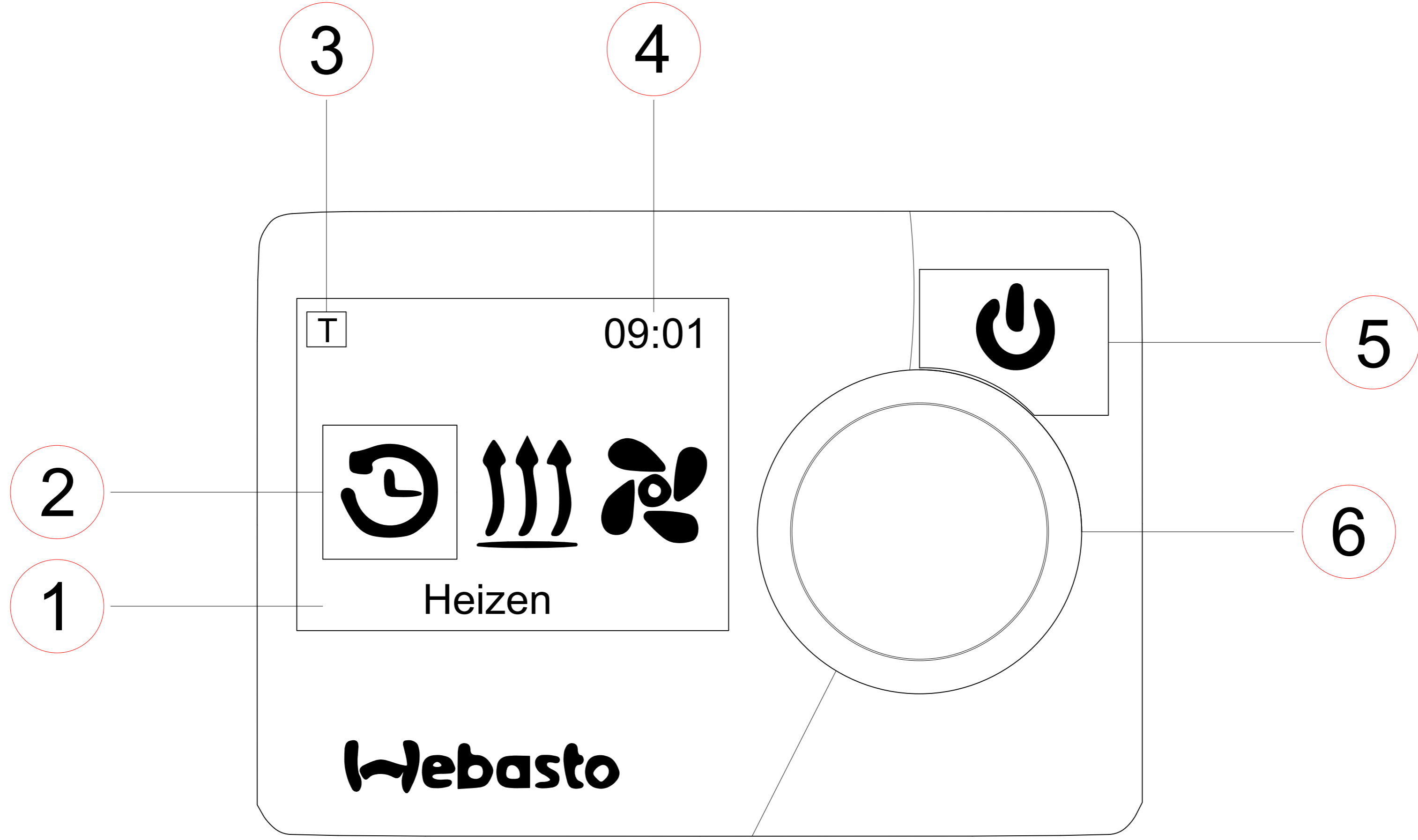
Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

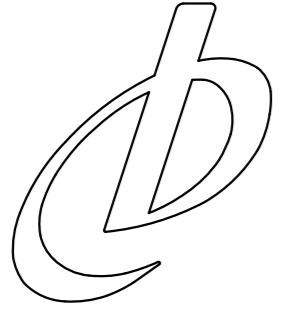
Mail:info@ilesbus.com



# WEBASTO



- 1 Submanu name
- 2 Submenu symbol
- 3 Activeted time settings
- 4 Time
- 5 Quick start button
- 6 Control knob



# FAULT CODES

Table of internal control element errors "Txx"

<b>Fault Code</b>	<b>Faults</b>	<b>Fault Description</b>	<b>Troubleshooting</b>
<b>Ted</b>	Supply voltage too high	Supply voltage exceeds 36V	Check car electrical installation.
<b>Te3</b>	Display background illumination faulty		Contact Webasto service workshop.
<b>Te4</b>	Defective led status		Contact Webasto service workshop.
<b>Te5</b>	Temperature sensor error	Temperature sensor of Multicontrol Smartcontrol faulty	Contact Webasto service workshop.
<b>Te6</b>	W-bus temperature sensor error	Temperature from external sensor (W-bus) can't be ready correctly	Check installation. Replace sensor if necessary.
<b>Te12</b>	Communication error on the W-bus		Check installation.
<b>Te7/Te8</b>	Flash		Contact Webasto service workshop.
<b>Tea</b>	Faulty feedback signal from heater (ST)		Check installation.
<b>Tec</b>	Control knob sticking	Control knob pressed for longer than 10 seconds.	Contact Webasto service workshop.
<b>Te46</b>	Excess current/short circuit at switch output SAU1	Current exceeds 500mA.	Check installation. Ensure that the consumer at switch output SAU1 is not drawing more than 500mA.
<b>Te0</b>	Reduced voltage	Supply voltage is below value set by technician	Charge the battery and check car electrical installation.
<b>T84</b>	Operating voltage too low	Supply voltage is less than 8V	Charge the battery and check car electrical installation.
<b>Te1</b>	Ambient temperature too low/high	Ambient temperature is outside the operating range of -20° to + 70°.	The error disappears automatically when the ambient temperature is once more within range of 20° + 70°.
<b>Teb</b>	RTC fault		In case of voltage interruption lasting more than 8 minutes: Enter day/time again. If this error appears without voltage interruption: Contact Webasto service workshop.

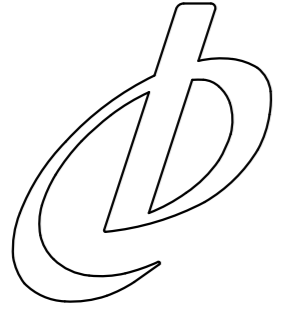
## İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com



# FAULT CODES

Error with Unibox connected and analogue heater

<b>Fault Code</b>	<b>Faults</b>	<b>Fault Description</b>	<b>Troubleshooting</b>
<b>Fed</b>	Supply voltage too high	Supply voltage exceeds 36V	Check car electrical installation.
<b>F5d</b>	Temperature sensor error	Temperature from the external sensor connected to the Unibox can't be read correctly.	Check installation.Contact Webasto service workshop.
<b>F12</b>	Communication error on the W-bus		Check installation.
<b>Fe7/Fe8</b>	Flash	Read/write from/to the internal memory failed	Check installation.Contact Webasto service workshop.
<b>Fe9</b>	Signal from switch output SAU1 not plausible	The Unibox is receiving an implausible signal	Check installation.Contact Webasto service workshop.
<b>Fea</b>	Faulty feedback signal from heater (ST)		Check installation.
<b>Fec</b>	External knob sticking	External control knob pressed for longer than 10 seconds	Check installation.Contact Webasto service workshop.
<b>F01 to F0F</b>	Heater error	Please look through the heater documentation	Contact Webasto service workshop.
<b>T5d</b>	UniBox temperature sensor error	The temperature from the external sensor connected to the UniBox can't be read correctly	Check installation.Replace sensor if necessary.
<b>T84</b>	Operating voltage too low	Supply voltage is less than 8V	Charge the battery and check car electrical installation.

Errors relating to connected heater

<b>Fault Code</b>	<b>Faults</b>	<b>Fault Description</b>	<b>Troubleshooting</b>
<b>F01 to F99</b>	Heater error (analogue)	See workshop manual for heater	Contact Webasto service workshop.
<b>F01 to FFE H01 to Hxx</b>	Heater error (W-bus)		

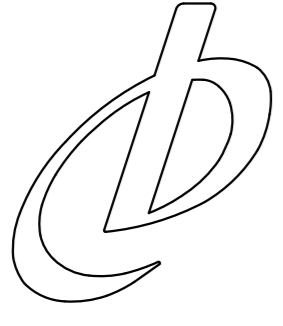
## İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

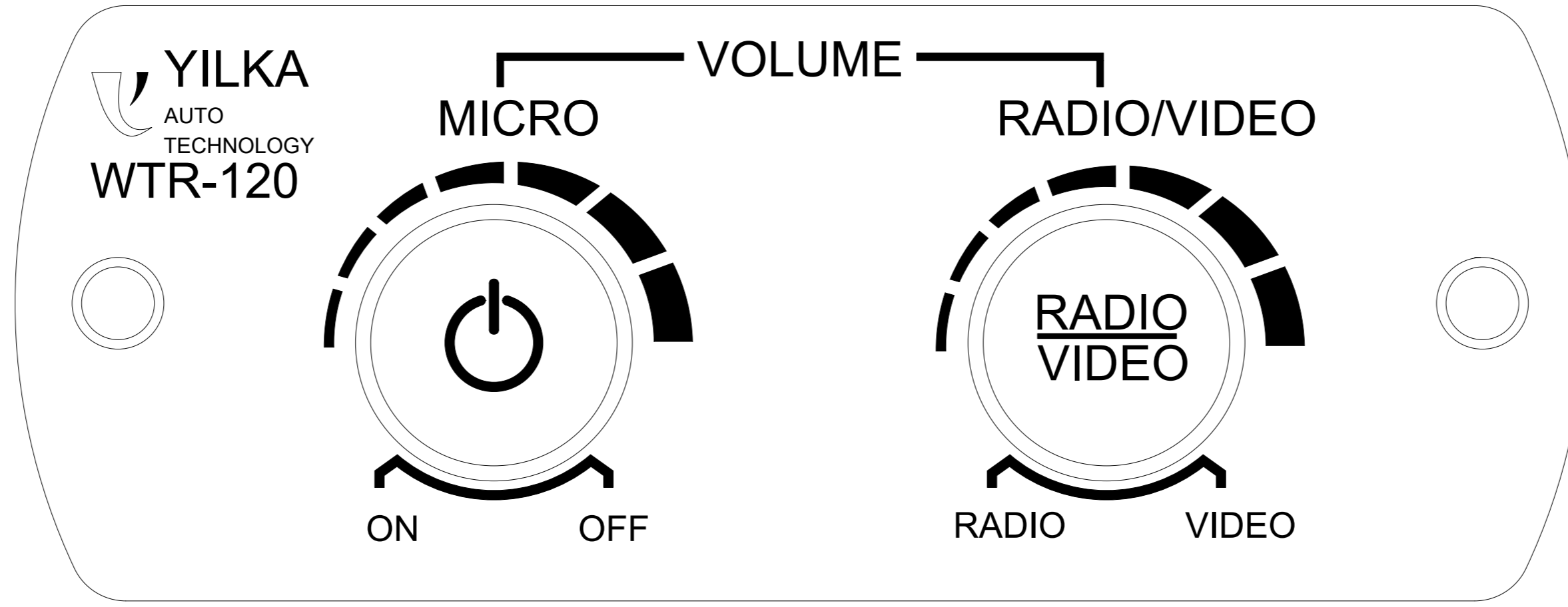
Fax:+90 224 243 33 85

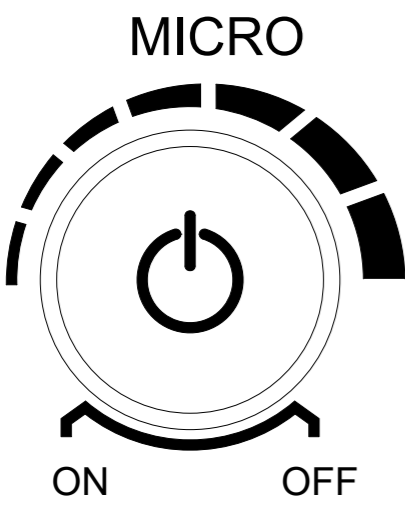

Mail:info@ilesbus.com



**ILESBUS**  
WHEN QUALITY COUNTS

# YILKA WTR120



BUTTON	BUTTON EXPLANATION
	<ul style="list-style-type: none"><li>• The YILKA AMPLIFIER on and off when the button pressed.</li><li>• It increases the volume of the microphone when the button is turned to the right.</li><li>• It decreases the volume of the microphone when the button is turned to the left.</li></ul>
	<ul style="list-style-type: none"><li>• When the button pressed first ; Connects to the radio source, it increases the radio volume when the button is turned to the right, it decreases the radio volume when the button is turned to the left.</li><li>• When the button pressed second ; Connects to the video source, it increases the video volume when the button is turned to the right, it decreases the video volume when the button is turned to the left.</li></ul>

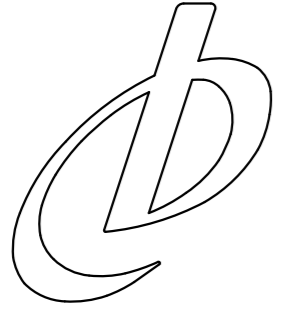
## İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com

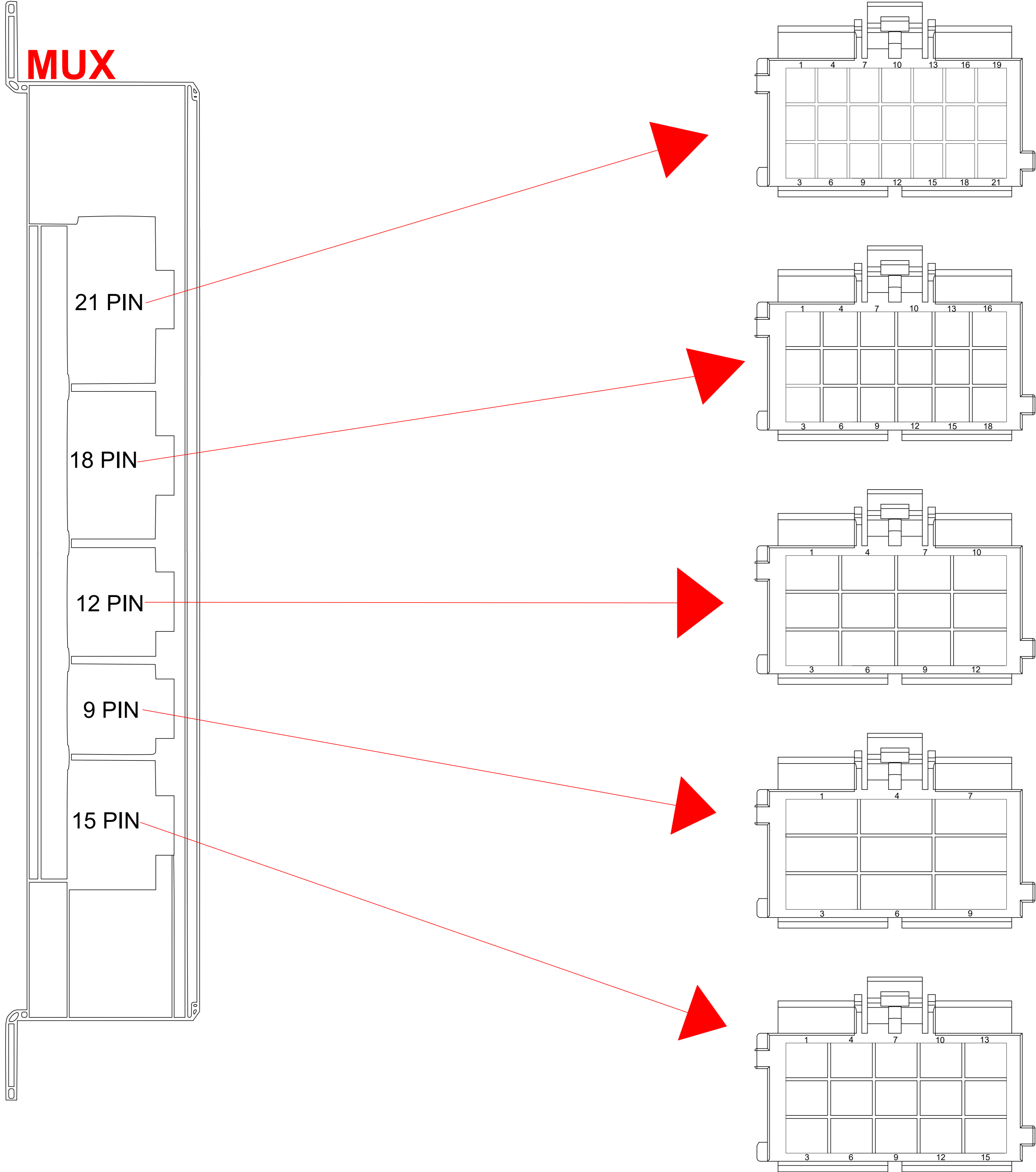


**ILES BUS**  
WHEN QUALITY COUNTS

**Sprinter Tourism**

## ILES BUS MULTIPLEXER (MUX) CONNECTOR PINS

**\*\*MULTIPLEXER** LOCATION IS BEHIND THE DRIVER'S SEAT.



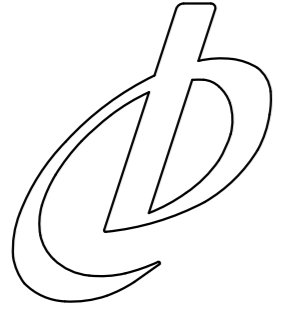
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

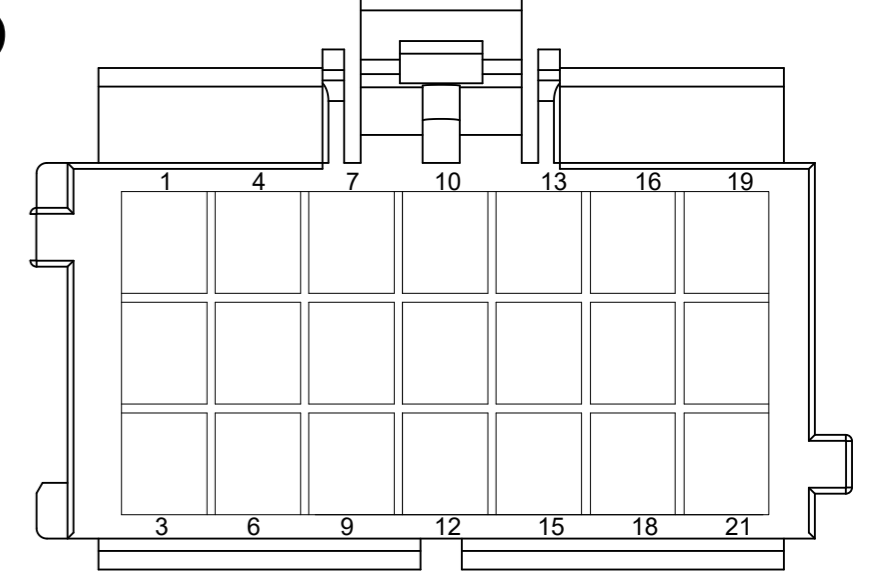
Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## ILESBUS MULTIPLEXER (MUX) CONNECTOR PINS



### 21 PIN CONNECTOR

PIN	I/O	DESCRIPTION
1	Output 21	RGB RED LIGHTS
2	Output 22	RGB GREEN LIGHTS
3	Input 02	
4	Output 24	RGB BLUE LIGHTS
5	Input 22	
6	Input 21	
7	Input 16	REVERSE GEAR SIGNAL
8	PWR	+
9	Input 20	
10	Output 23	RGB +
11	CAN 2	
12	Input 19	PARK SIGNAL
13	Output 20	RGB +
14	CAN 2	
15	CAN 2	
16	Output 19	TV
17	12 V Out	
18	Input 17	REAR LUGGAGE SIGNAL
19	5 V Out	
20	PWR	+
21	PWR	+

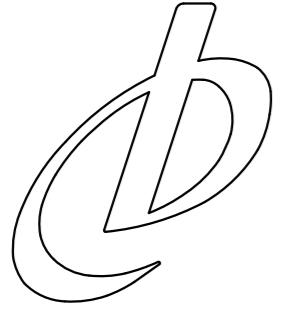
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

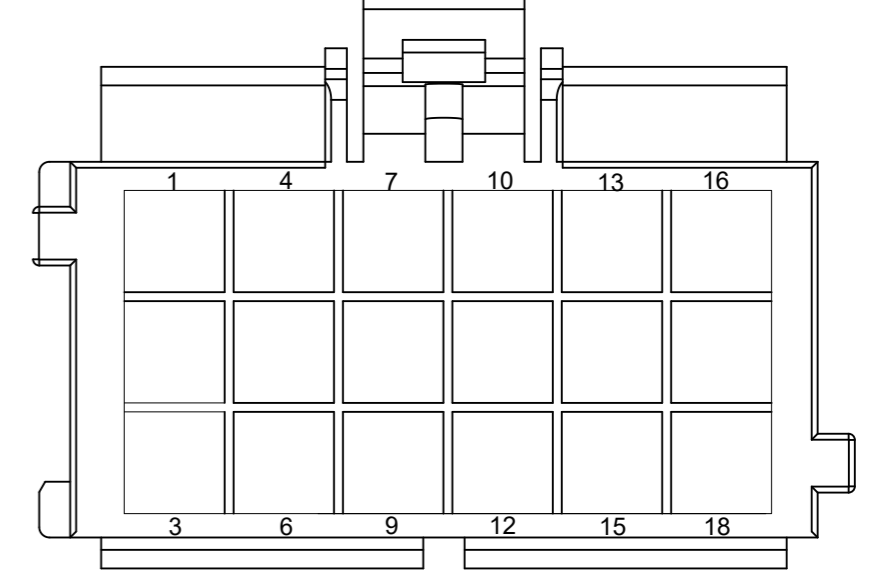
Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## ILESBUS MULTIPLEXER (MUX) CONNECTOR PINS

### 18 PIN CONNECTOR



PIN	I/O	DESCRIPTION
1	Output 18	HANDBRAKE BOX & SPOT LIGHTS
2	Input 14	
3	Input 15	
4	Output 17	RACK WHITE LIGHTS
5	CAN 1	HIGH - KEYPAD
6	CAN 1	
7	Output 14	DAYLIGHTS / TABLE DAYLIGHTS
8	PWR	<b>GND -</b>
9	CAN 1	LOW - KEYPAD
10	Output 13	DOOR SIGNAL
11	Input 12	DOOR OPEN SIGNAL
12	Input 11	
13	Output 16	BLUE LIGHTS
14	Input 10	
15	Input 13	D+ SIGNAL
16	Output 15	READING LIGHTS
17	PWR	<b>+</b>
18	PWR	<b>+</b>

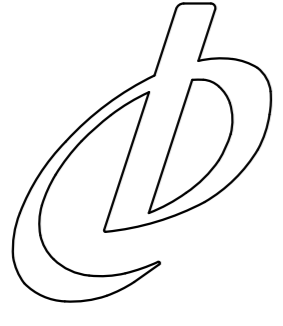
### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

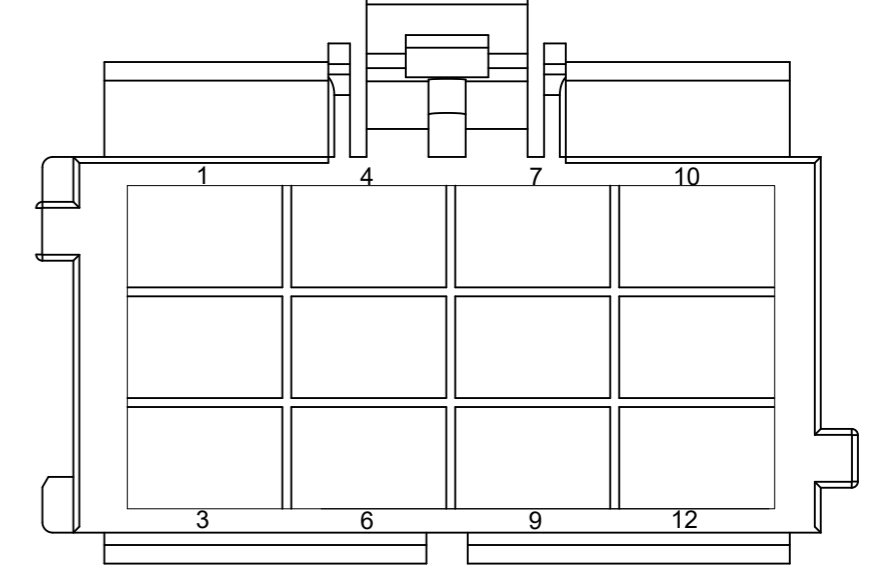
Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## ILES BUS MULTIPLEXER (MUX) CONNECTOR PINS

### 12 PIN CONNECTOR



PIN	I/O	DESCRIPTION
<b>1</b>	PWR	<b>+</b>
<b>2</b>	Input 01	D+ SIGNAL
<b>3</b>	Address 1	<b>HIGH ACTIVE +</b>
<b>4</b>	Address 2	<b>HIGH ACTIVE -</b>
<b>5</b>	Address 3	<b>HIGH ACTIVE -</b>
<b>6</b>	Address 4	<b>HIGH ACTIVE -</b>
<b>7</b>	CAN 3	HIGH - SOFTWARE
<b>8</b>	CAN 3	
<b>9</b>	PWR	<b>GND -</b>
<b>10</b>	CAN 3	
<b>11</b>	CAN 3	LOW - SOFTWARE
<b>12</b>	Input 18	IGNITION TRIGGER

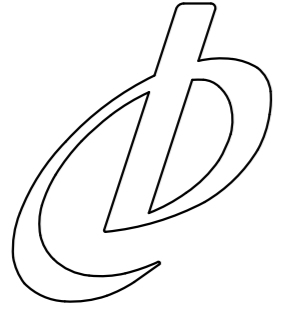
### **İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ**

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

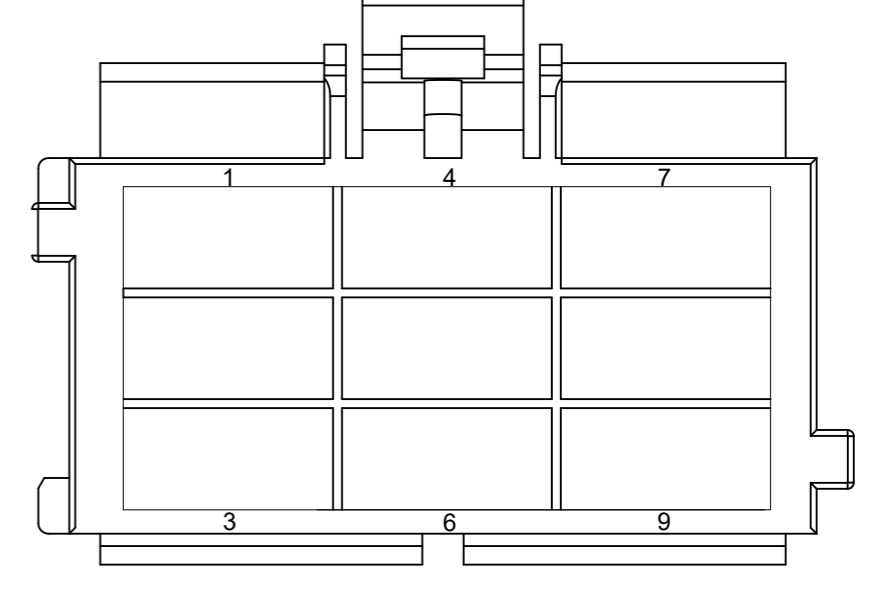
Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## ILESBUS MULTIPLEXER (MUX) CONNECTOR PINS

### 9 PIN CONNECTOR



PIN	I/O	DESCRIPTION
<b>1</b>	Output 01	AISLE BLUE LIGHTS
<b>2</b>	Output 02	AISLE WHITE LIGHTS
<b>3</b>	PWR	<b>+</b>
<b>4</b>	Output 04	USB
<b>5</b>	PWR	<b>GND -</b>
<b>6</b>	PWR	<b>+</b>
<b>7</b>	Output 03	FAN
<b>8</b>	Output 06	DOOR GLASS RESISTANCE
<b>9</b>	Output 05	

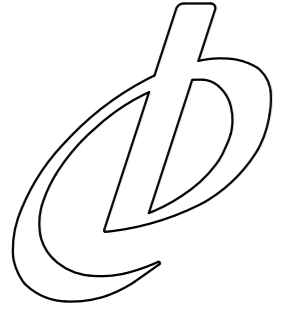
### **İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ**

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

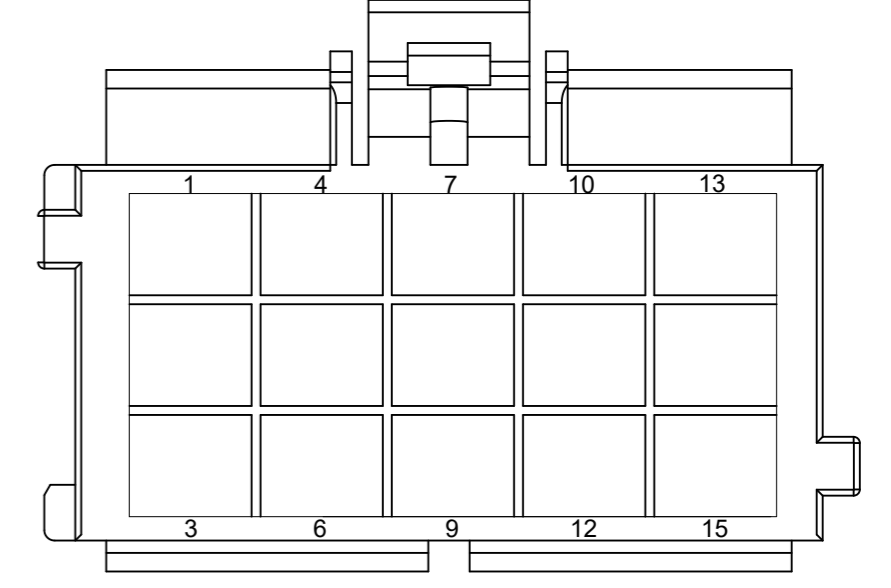
Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com



## ILESBUS MULTIPLEXER (MUX) CONNECTOR PINS



### 15 PIN CONNECTOR

PIN	I/O	DESCRIPTION
1	Output 10	DIGITAL CLOCK & KEYPAD (+)
2	PWR	+
3	PWR	+
4	Output 09	PROJECTORS
5	Input 06	
6	Input 07	
7	Input 04	
8	Input 03	<b>GND -</b>
9	Input 09	
10	Output 12	TOP MARKER LIGHTS & EXTERIOR LIGHTS
11	Input 05	DOOR OPEN SIGNAL
12	Input 08	
13	Output 11	DAYTIME RUNNING LIGHTS
14	Output 08	STEP LIGHTS
15	Output 07	INVERTER

### İLES OTOMOTİV SANAYİ VE TİCARET ANONİM ŞİRKETİ

MİNARELİ ÇAVUŞ MAHALLESİ MEVZİ SOKAK NO36 NİLÜFER - BURSA / TURKEY

Tel:+90 224 243 3381-82

Fax:+90 224 243 33 85

Mail:info@ilesbus.com



**ILESBUS**

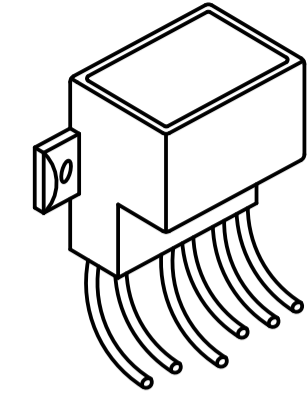
**WHEN QUALITY COUNTS**

Mercedes-Benz Sprinter

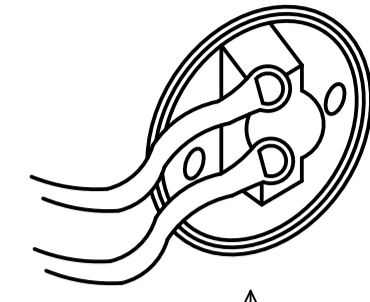
**WIRING DIAGRAM**

[www.ilesbus.com](http://www.ilesbus.com)

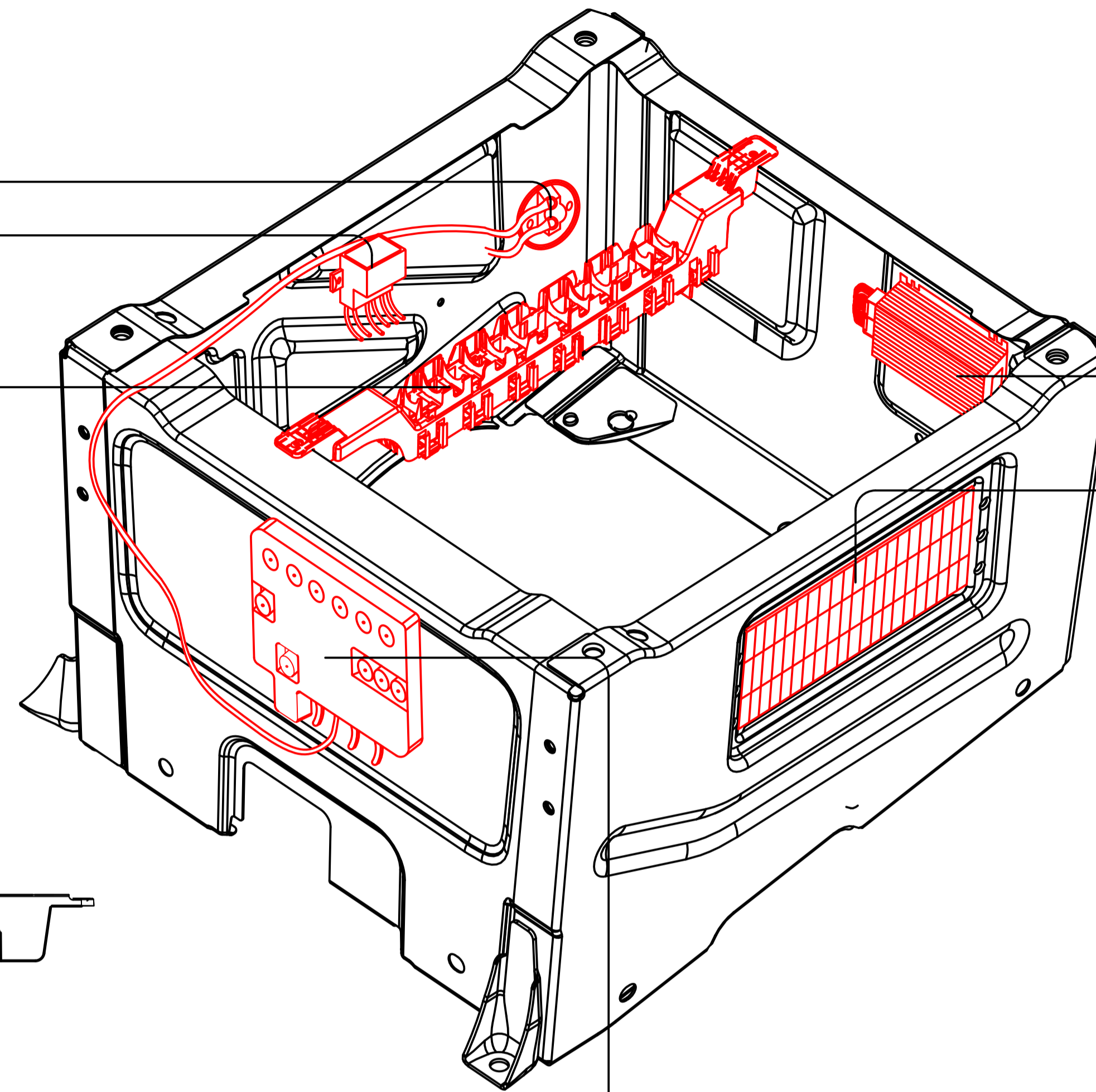
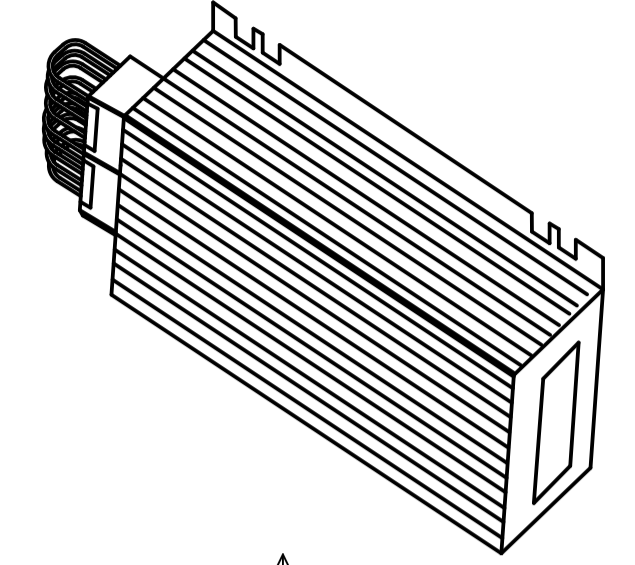
### REMOTE DOOR CONTROL



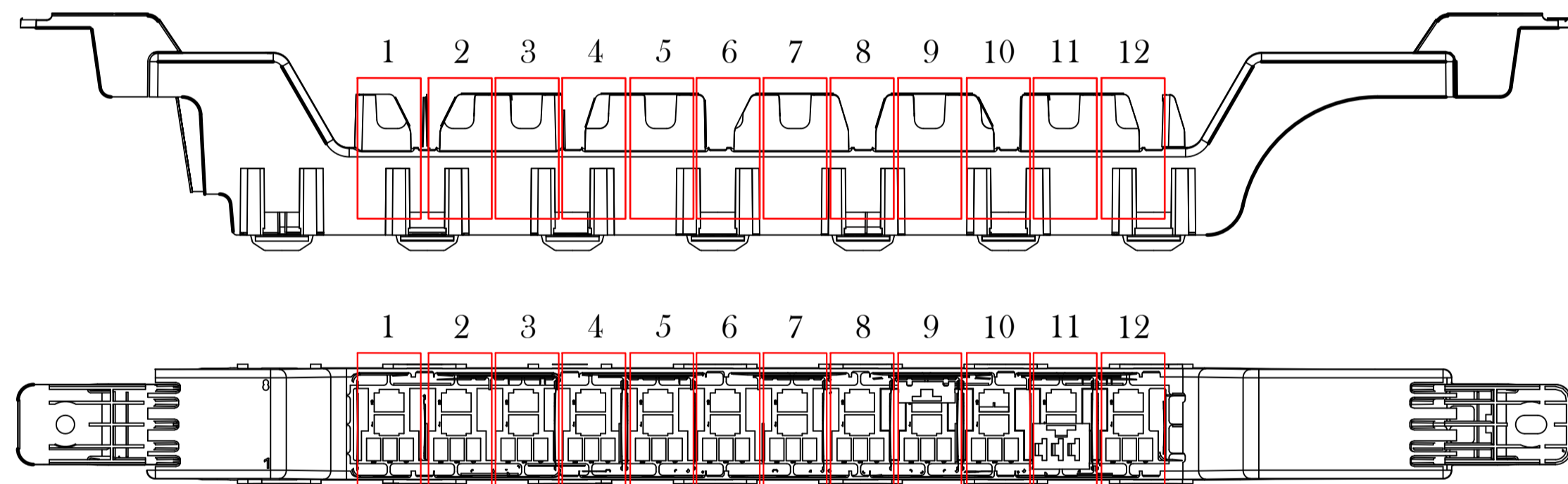
### POWER OFF



### DOOR MODULE

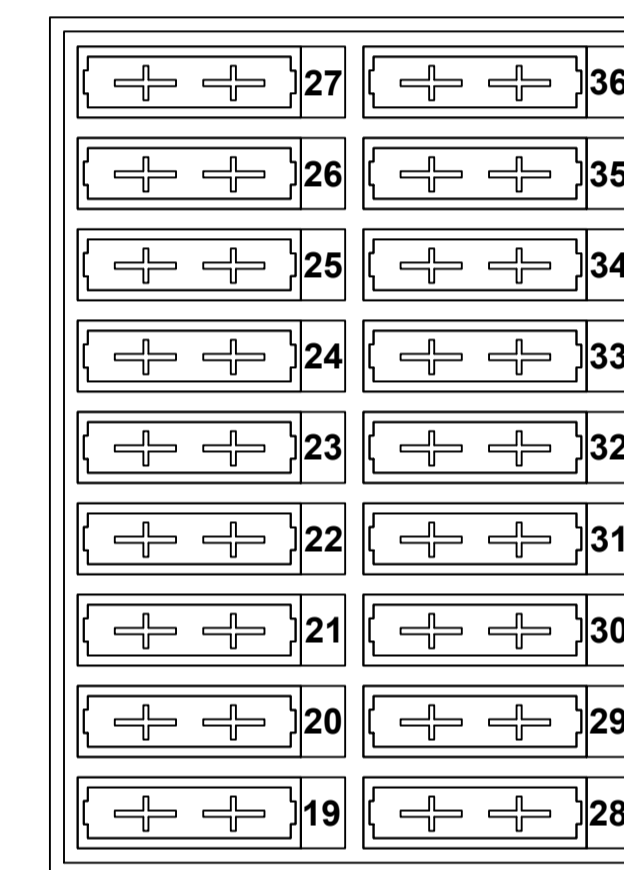


### RELAYS



RELAYS		
R2		MERCEDES
R3		SYSTEM
R4		HEATER RADIATOR
R5		DOOR GLASS RESISTANCE
R6		INVERTER

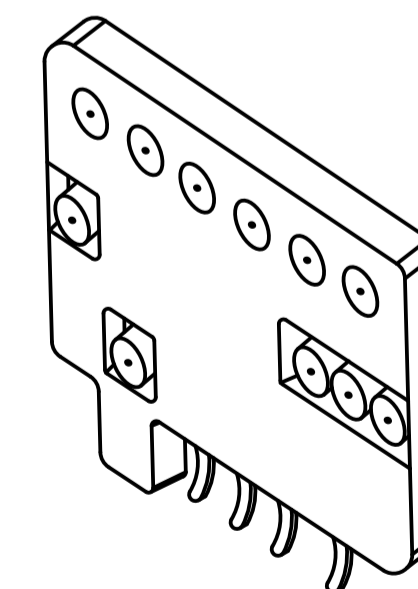
### FUSES

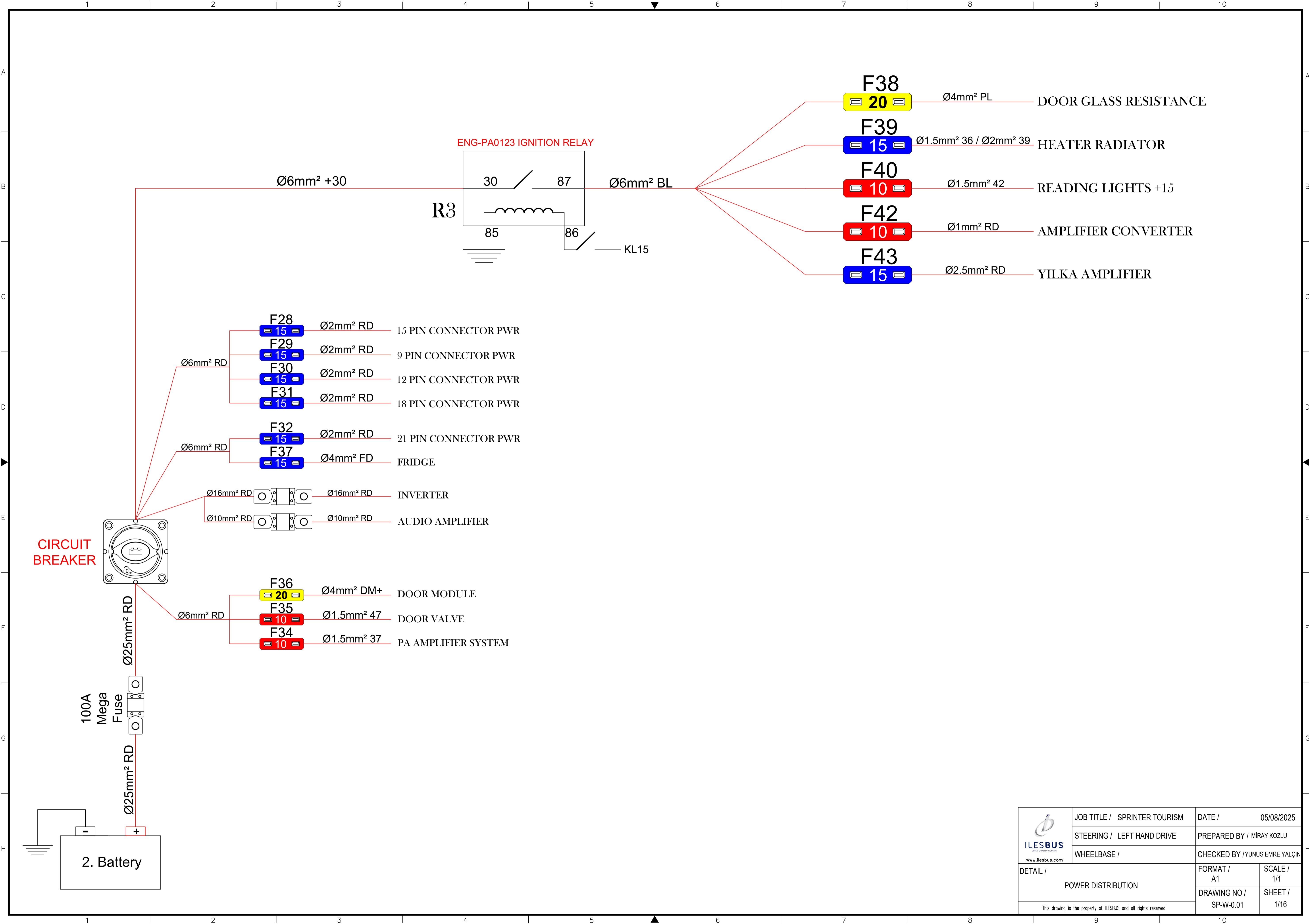



### FUSES

FUSE DETAIL	CABLE	FUSE
1 - IGNITION TRIGGER	KL15	
3 - ADAS / ISA +15	BL	
9 - ADAS / ISA +30	RED	
28 - 15 PIN CONNECTOR PWR	RED	
29 - 9 PIN CONNECTOR PWR	RED	
30 - 12 PIN CONNECTOR PWR	RED	
31 - 18 PIN CONNECTOR PWR	RED	
32 - 21 PIN CONNECTOR PWR	RED	
33 - N/A		
34 - PA AMPLIFIER SYSTEM	37	
35 - DOOR VALVE	47	
36 - DOOR MODULE	DM+	
37 - FRIDGE	FD	
38 - DOOR GLASS RESISTANCE	PL	
39 - HEATER RADIATOR	36 - 39	
40 - READING LIGHTS +15	42	
41 - N/A		
42 - AMPLIFIER CONVERTER	RED	
43 - YILKA AMPLIFIER	RED	

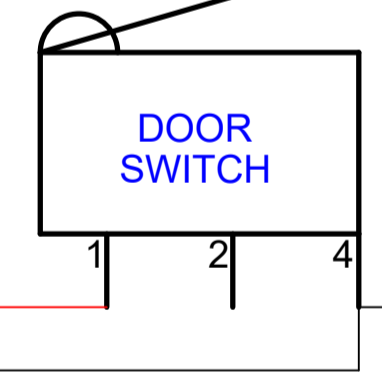
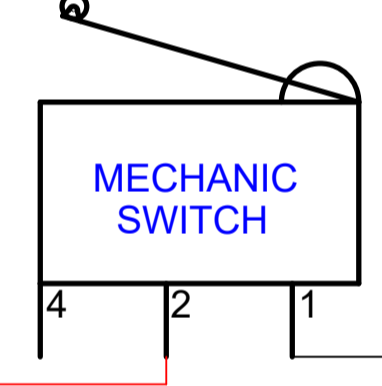
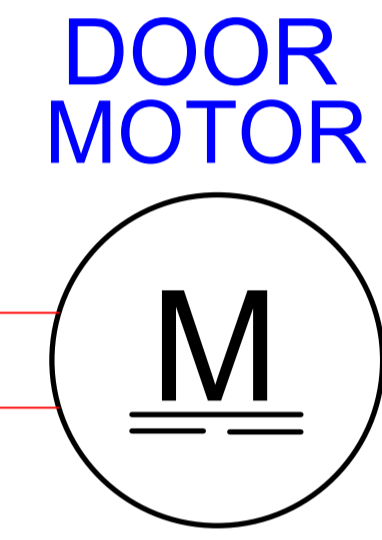
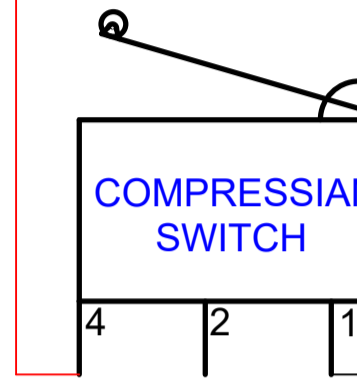
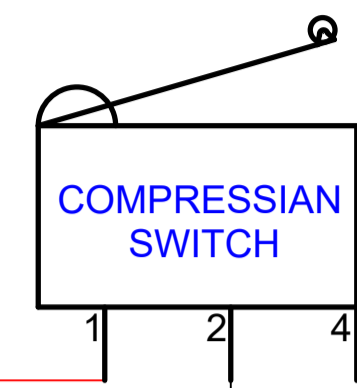
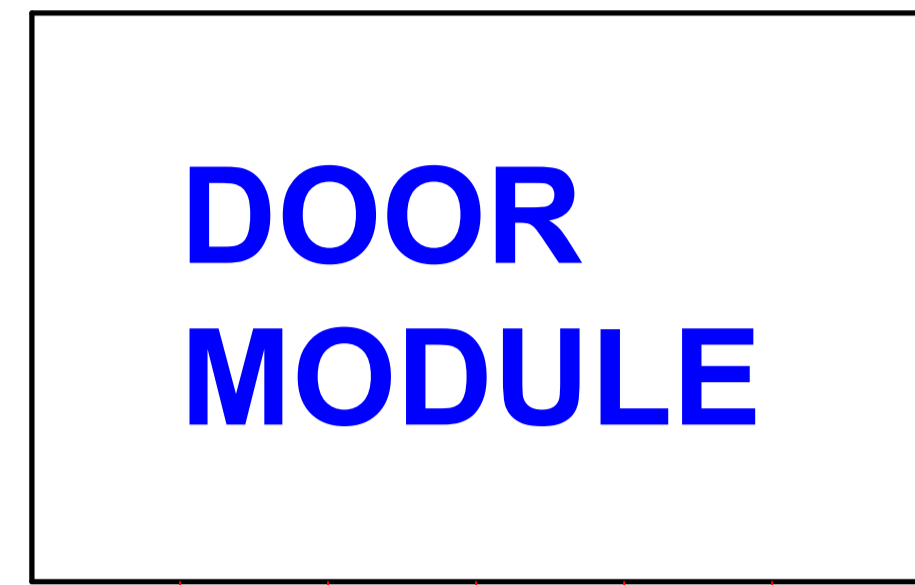
### MAIN FUSE



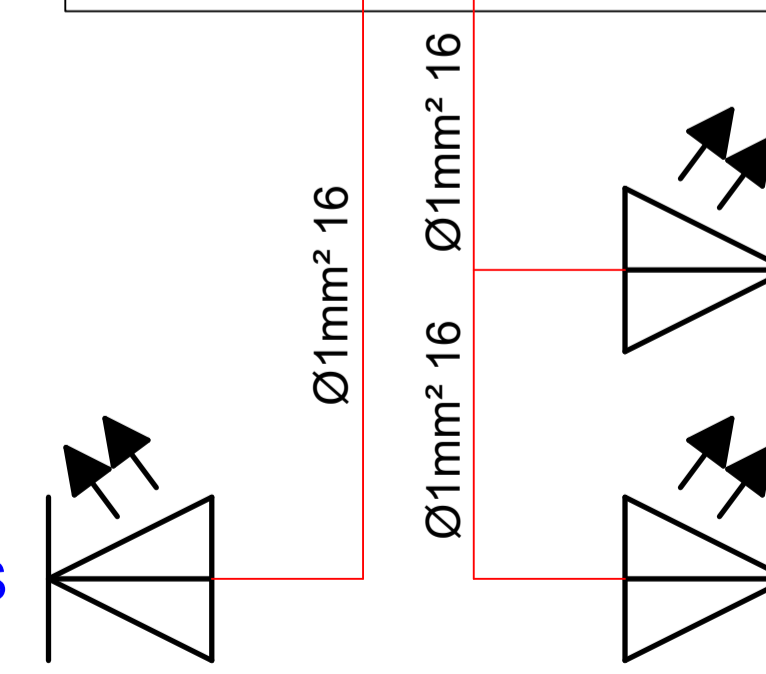
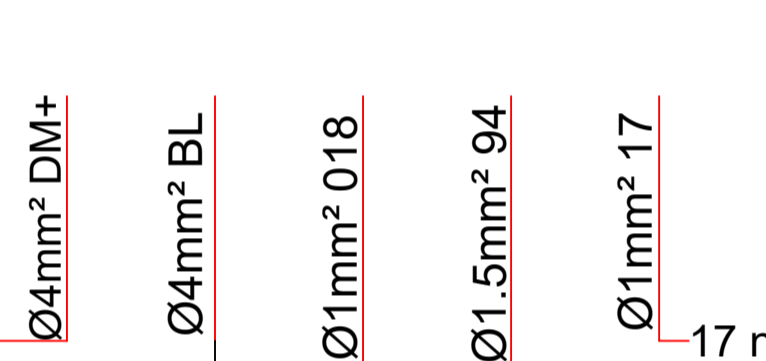
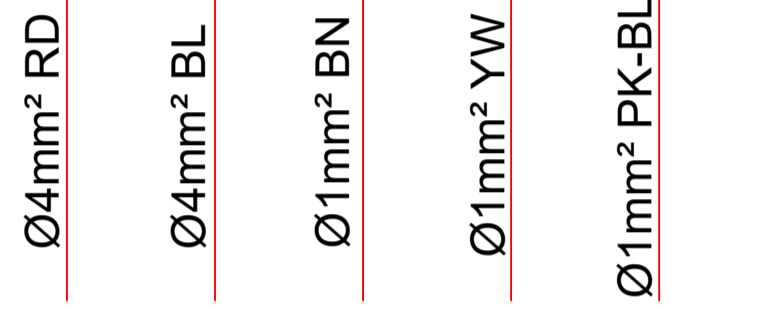
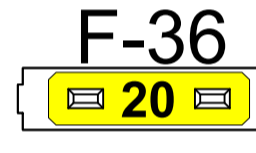
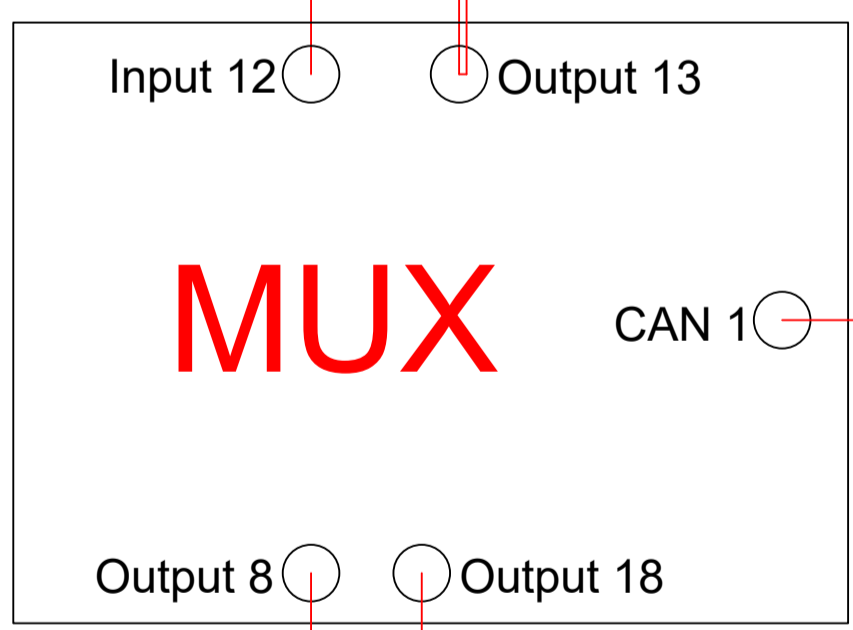
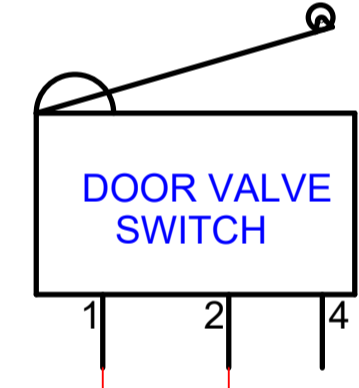


 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	POWER DISTRIBUTION	FORMAT / A1 SCALE / 1/1 DRAWING NO / SP-W-0.01 SHEET / 1/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		

DOOR MODULE LOCATION IS UNDER THE DRIVER SEAT  
 REMOTE DOOR CONTROL LOCATION IS UNDER THE DRIVER SEAT  
 MUX LOCATION IS BEHIND THE DRIVER SEAT  
 INPUT 12, OUTPUT 13 & OUTPUT 18 LOCATION AT THE 18 PIN CONNECTOR  
 OUTPUT 8 LOCATION IS AT THE 15 PIN CONNECTOR



DOOR VALVE



STEP LIGHTS

HANDBRAKE BOX LED LIGHTS

SPOT LIGHTS

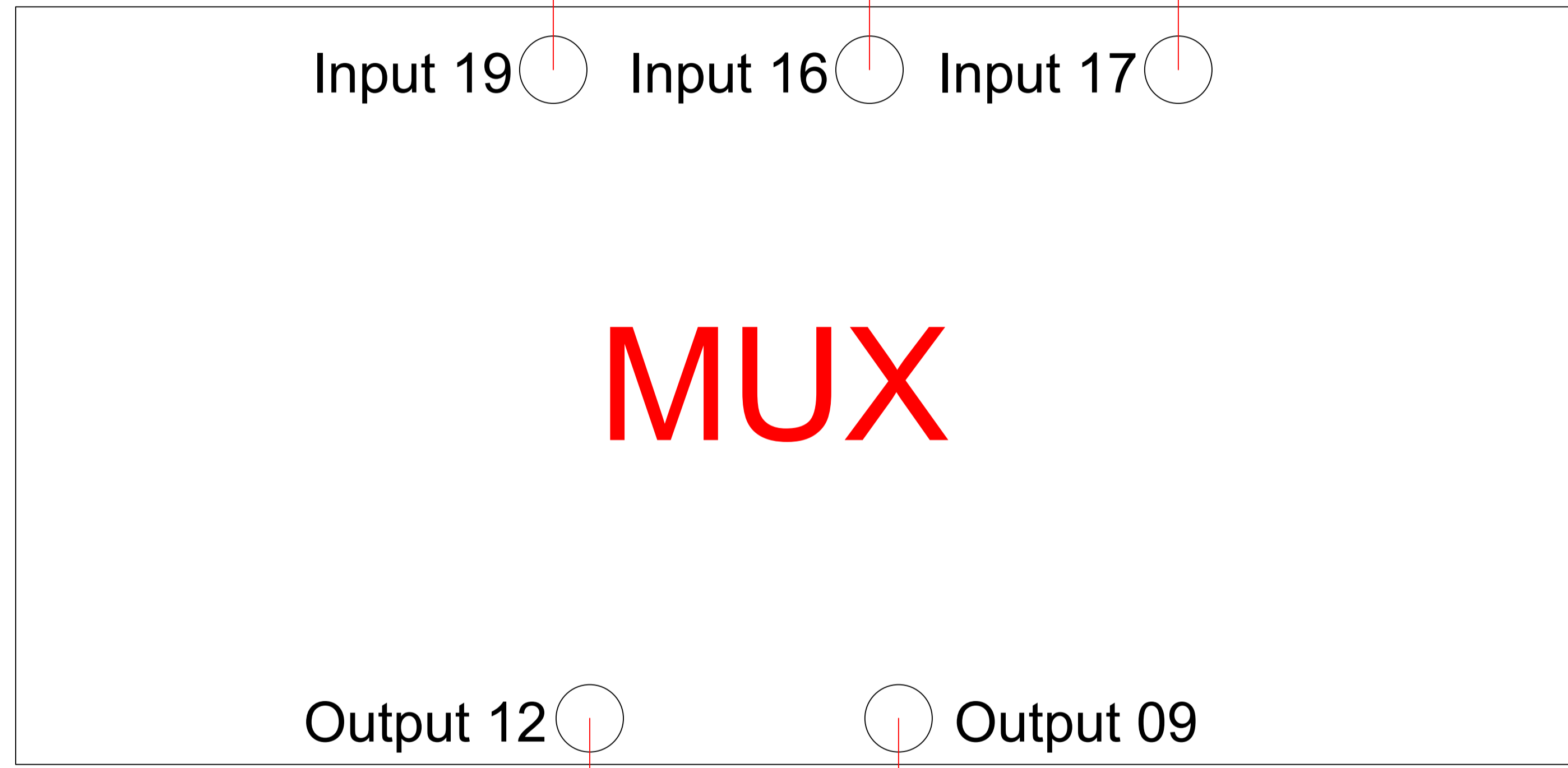
17 numbered cable gets speed information from 7th pin of TE927366(TACHOGRAPH SOCKET) numbered socket

 www.ilesbus.com	JOB TITLE / SPRINTER TOURISIM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	DOOR MODULE CONNECTION	FORMAT / A1 SCALE / 1/1 DRAWING NO / SP-W-0.02 SHEET / 2/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		

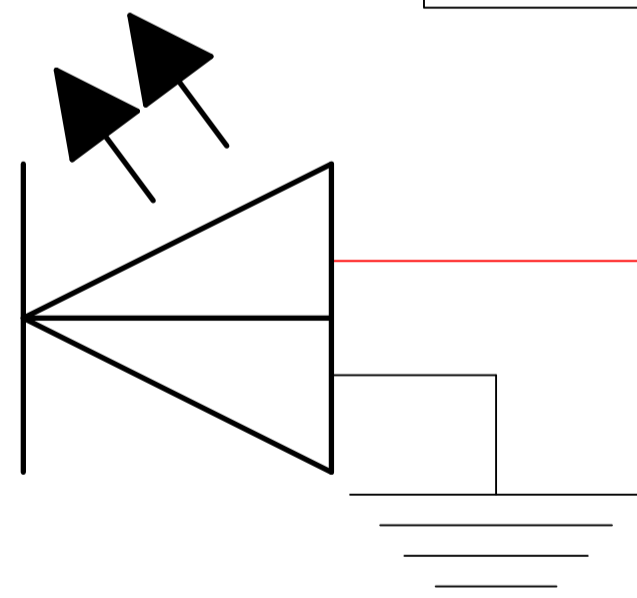
INPUT 19, INPUT 17 & INPUT 16 LOCATION IS AT THE 21 PIN CONNECTOR  
 OUTPUT 09 & OUTPUT 12 LOCATION IS AT THE 15 PIN CONNECTOR

MERCEDES REVERSE GEAR SIGNAL — Ø1mm² BU-WT — [ ] — Ø1mm² GN-WT — [ ] — Ø1mm² 050 — [ ] — Ø1mm² BU-WT — MERCEDES REAR LUGGAGE SIGNAL

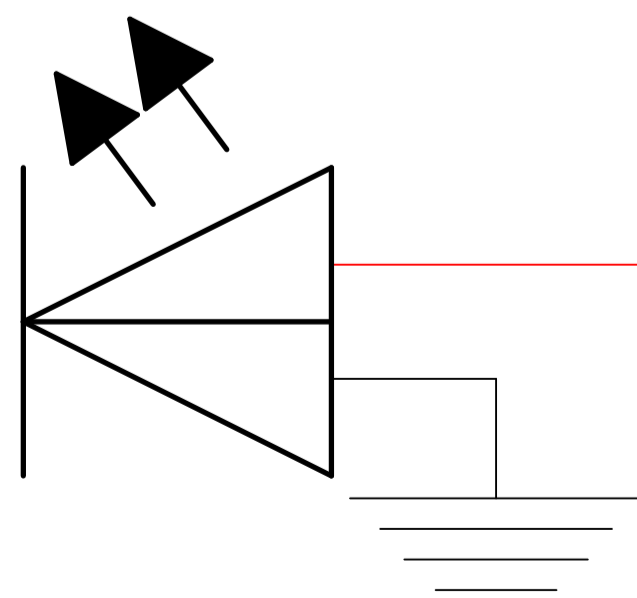
MERCEDES PARK SIGNAL — Ø1mm² BU-YW — [ ] — Ø1mm² 58L — [ ] —



**TOP MARKER LIGHTS**



**EXTERIOR LIGHTS**



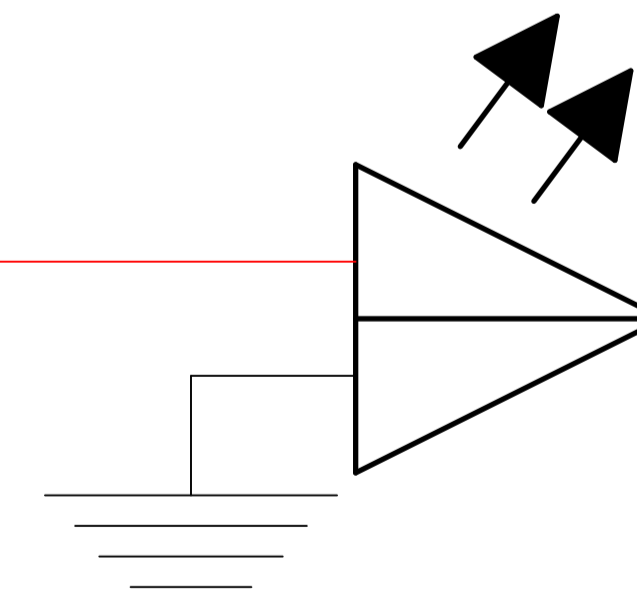
Ø1.5mm² 26

Ø1.5mm² PK

Ø1.5mm² 46

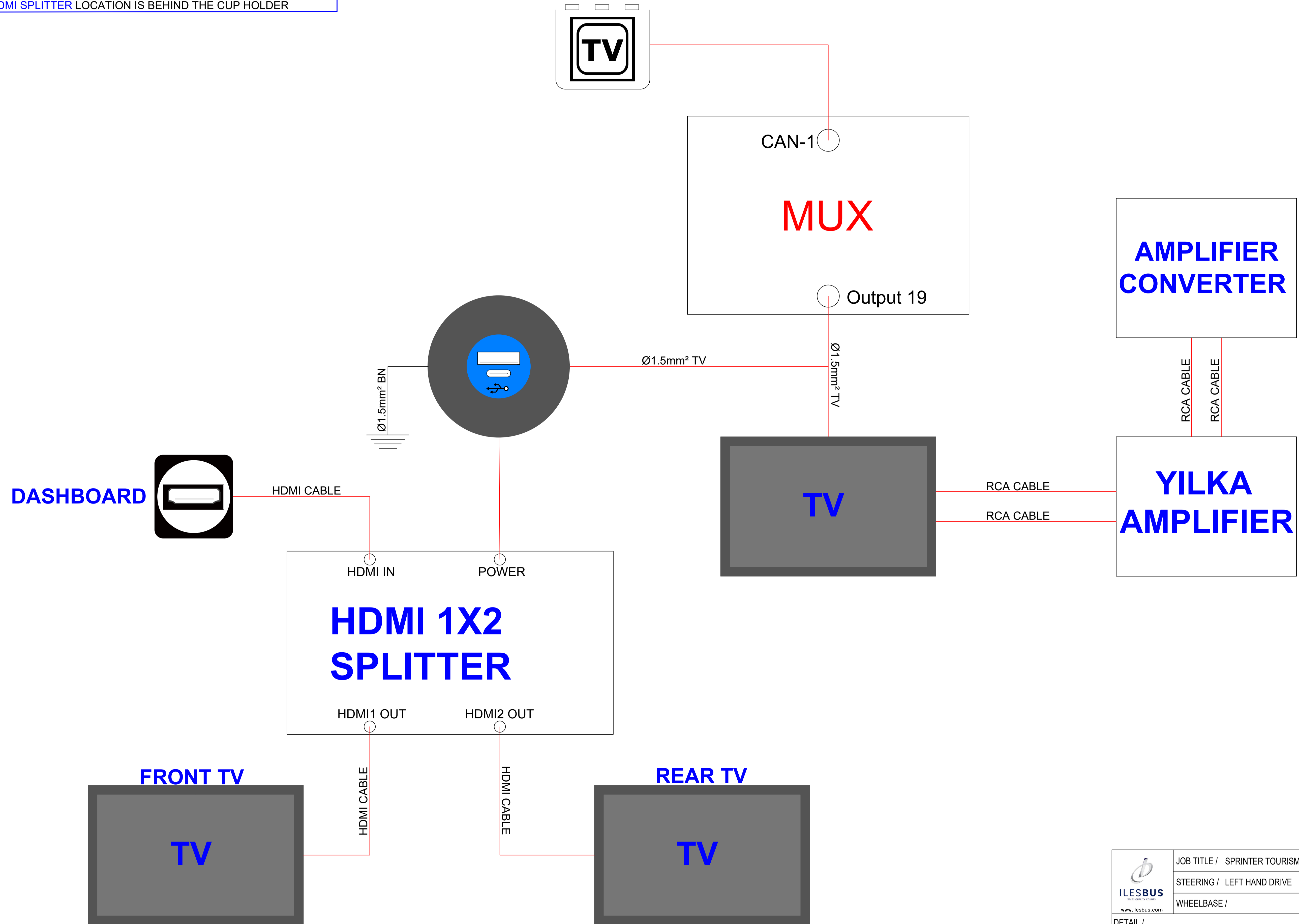
Ø1.5mm² 46


**PROJECTOR**



 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
PARK-PROJECTOR-REAR DOOR-REVERSE GEAR	DRAWING NO / SP-W-0.03	SHEET / 3/16
This drawing is the property of ILESBUS and all rights reserved		

OUTPUT 19 LOCATION IS AT THE 21 PIN CONNECTOR  
 YILKA AMPLIFIER LOCATION IS BEHIND THE CUP HOLDER  
 AMPLIFIER CONVERTER LOCATION IS BEHIND THE CUP HOLDER  
 HDMI SPLITTER LOCATION IS BEHIND THE CUP HOLDER



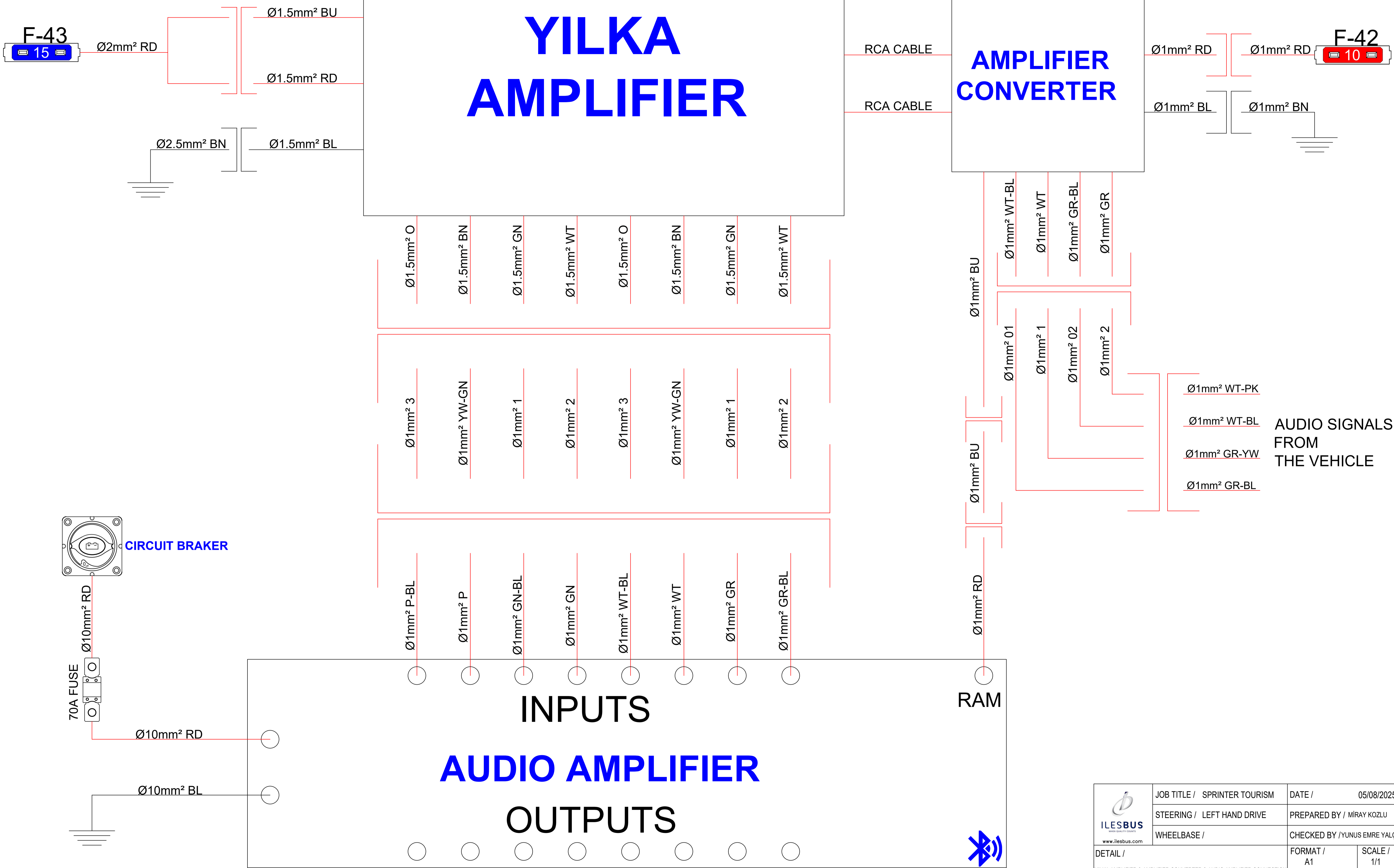
 <b>ILESBUS</b> <small>www.ilesbus.com</small>	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
TV & HDMI SPLITTER & YILKA AMPLIFIER CONNECTION	DRAWING NO / SP-W-0.04	SHEET / 4/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		


YILKA AMPLIFIER LOCATION IS BEHIND THE CUP HOLDER  
 AMPLIFIER CONVERTER LOCATION IS BEHIND THE CUP HOLDER  
 AUDIO AMPLIFIER LOCATION IS BEHIND DRIVER'S SEAT

# YILKA AMPLIFIER

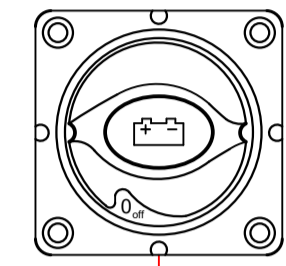
# AMPLIFIER CONVERTER

# INPUTS AUDIO AMPLIFIER OUTPUTS

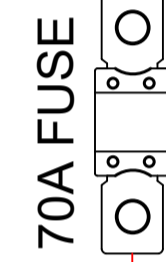


 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MIRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
YILKA AMPLIFIER & AMPLIFIER CONVERTER & AUDIO AMPLIFIER CONNECTION		DRAWING NO / SP-W-0.05
This drawing is the property of ILESBUS and all rights reserved		SHEET / 5/16

EL-CS2.0A LOCATION IS BEHIND THE WOOFER  
 AUDIO AMPLIFIER LOCATION IS BEHIND DRIVER'S SEAT  
 IT IS POSSIBLE TO CONNECT TO THE AUDIO AMPLIFIER VIA BLUETOOTH



CIRCUIT BRAKER



70A FUSE

Ø10mm² RD

Ø10mm² BL

Ø1mm² 3

Ø1mm² YW-GN

Ø1mm² 1

Ø1mm² 2

Ø1mm² 3

Ø1mm² YW-GN

Ø1mm² 1

Ø1mm² 2

Ø1mm² BU

Ø1mm² P-BL

Ø1mm² P

Ø1mm² GN-BL

Ø1mm² GN

Ø1mm² WT-BL

Ø1mm² WT

Ø1mm² GR

Ø1mm² GR-BL

Ø1mm² RD

INPUTS

AUDIO AMPLIFIER

OUTPUTS

RAM

BTL

Ø2mm² 09

Ø2mm² 9

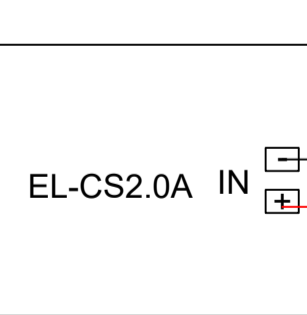
SUBWOOFER SPEAKER

LEFT FRONT TWEETER

LEFT FRONT WOOFER

LEFT REAR TWEETER

LEFT REAR WOOFER



Ø1.5mm² 04

Ø1.5mm² 4

Ø1.5mm² 02

Ø1.5mm² 2

Ø1mm² WT-BL

Ø1mm² WT

Ø1mm² P-BL

Ø1mm² P

Ø1mm² GN

Ø1mm² GN-BL

Ø1mm² WT

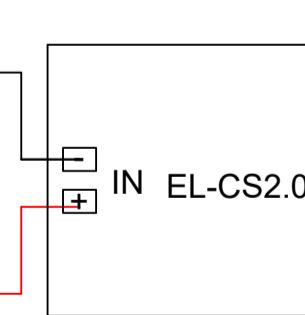
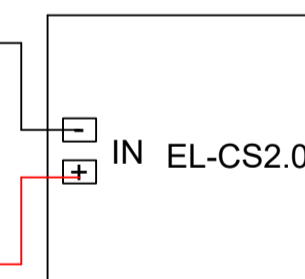
Ø1mm² WT-BL

Ø1.5mm² 03

Ø1.5mm² 3

Ø1.5mm² 01

Ø1.5mm² 1



RIGHT FRONT TWEETER

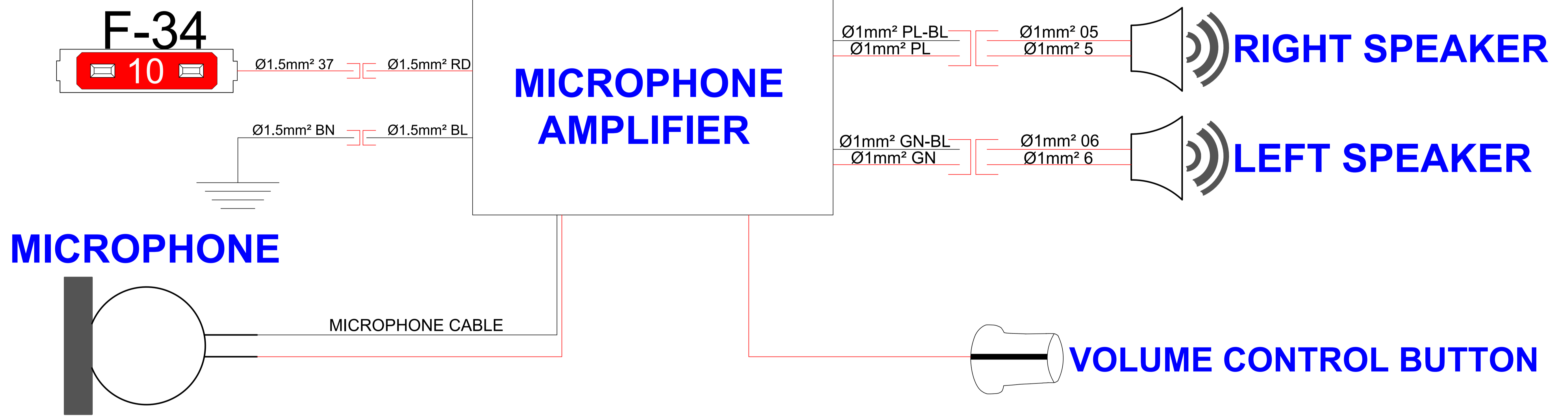
RIGHT FRONT WOOFER


RIGHT REAR TWEETER

RIGHT REAR WOOFER

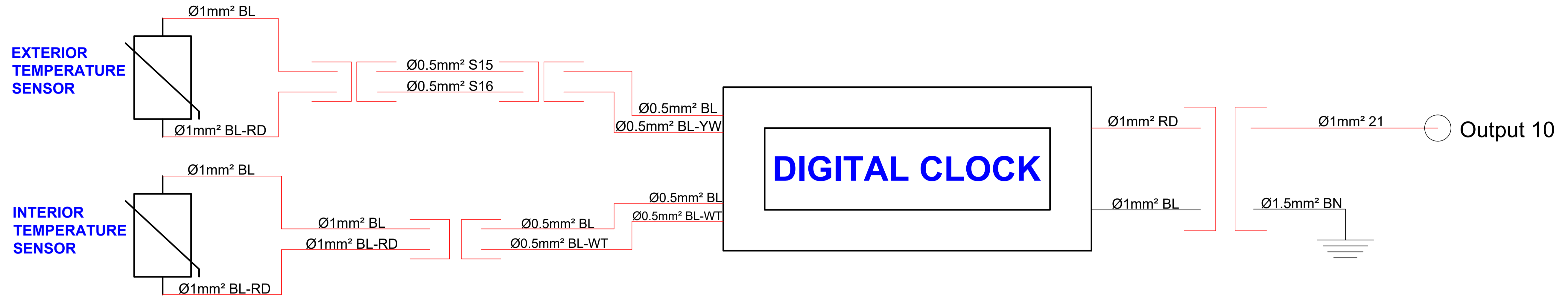
 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MIRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
YILKA AMPLIFIER & AMPLIFIER CONVERTER & AUDIO AMPLIFIER CONNECTION	DRAWING NO / SP-W-0.06	SHEET / 6/16
This drawing is the property of ILESBUS and all rights reserved		

VOLUME CONTROL BUTTON LOCATION IS ON THE DASHBOARD  
 MICROPHONE AMPLIFIER LOCATION IS BEHIND THE CUP HOLDER

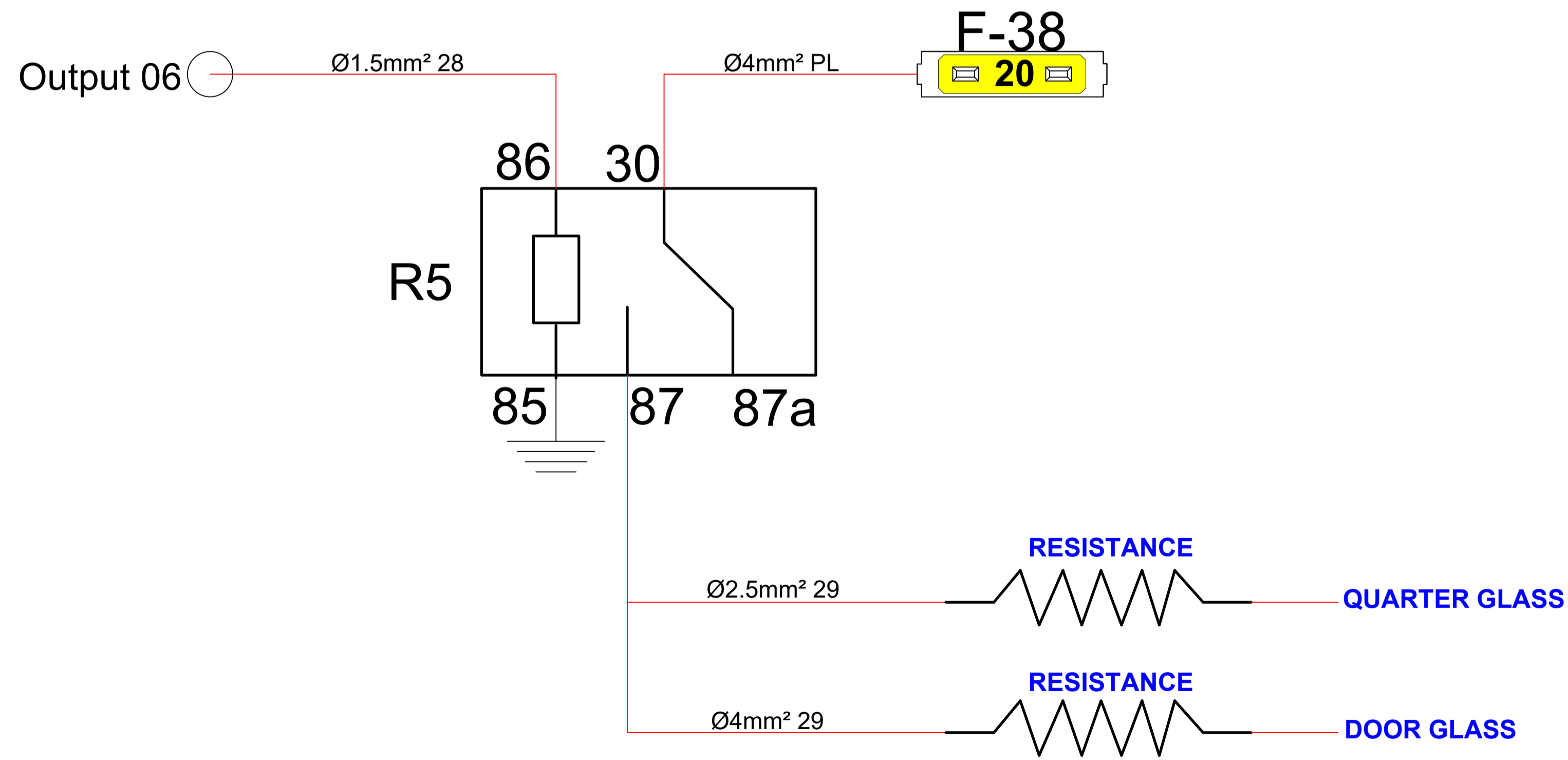



 ILESBUS www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
MICROPHONE CONNECTION	DRAWING NO / SP-W-0.07	SHEET / 7/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		

EXTERIOR TEMPERATURE SENSOR LOCATION IS ON THE FRONT BUMPER  
 INTERIOR TEMPERATURE SENSOR LOCATION IS BEHIND THE DIGITAL CLOCK  
 OUTPUT 10 LOCATION IS AT THE 15 PIN CONNECTOR



OUTPUT 06 IS AT THE 9 PIN CONNECTOR



 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
DIGITAL CLOCK & DOOR GLASS & QUARTER GLASS HEATER CONNECTION	DRAWING NO / SP-W-0.08	SHEET / 8/16
This drawing is the property of ILESBUS and all rights reserved		

INVERTER LOCATION IS IN THE DEEP LUGGAGE  
 OUTPUT 07 LOCATION IS AT THE 15 PIN CONNECTOR  
 INPUT 13 LOCATION IS AT THE 18 PIN CONNECTOR

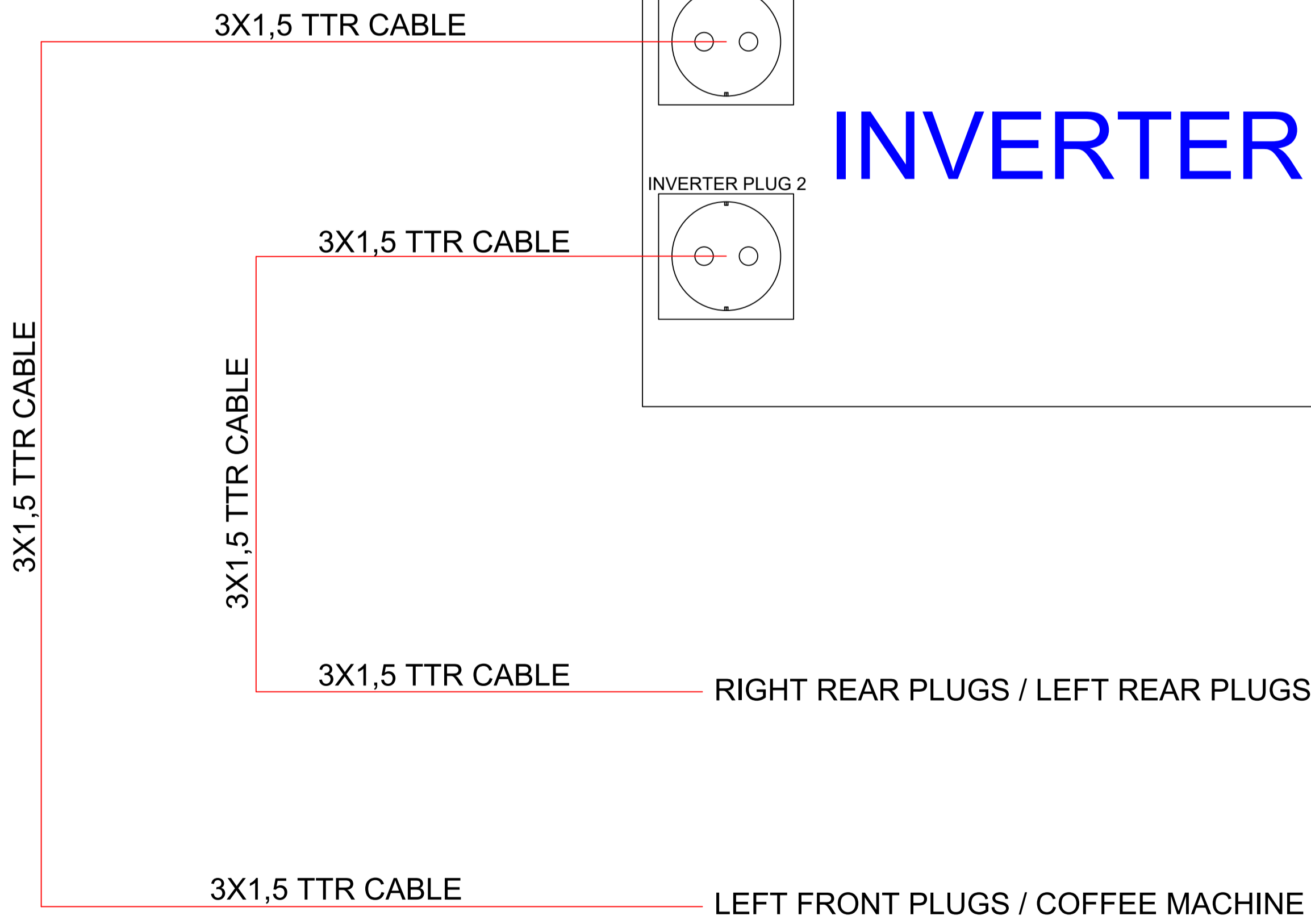
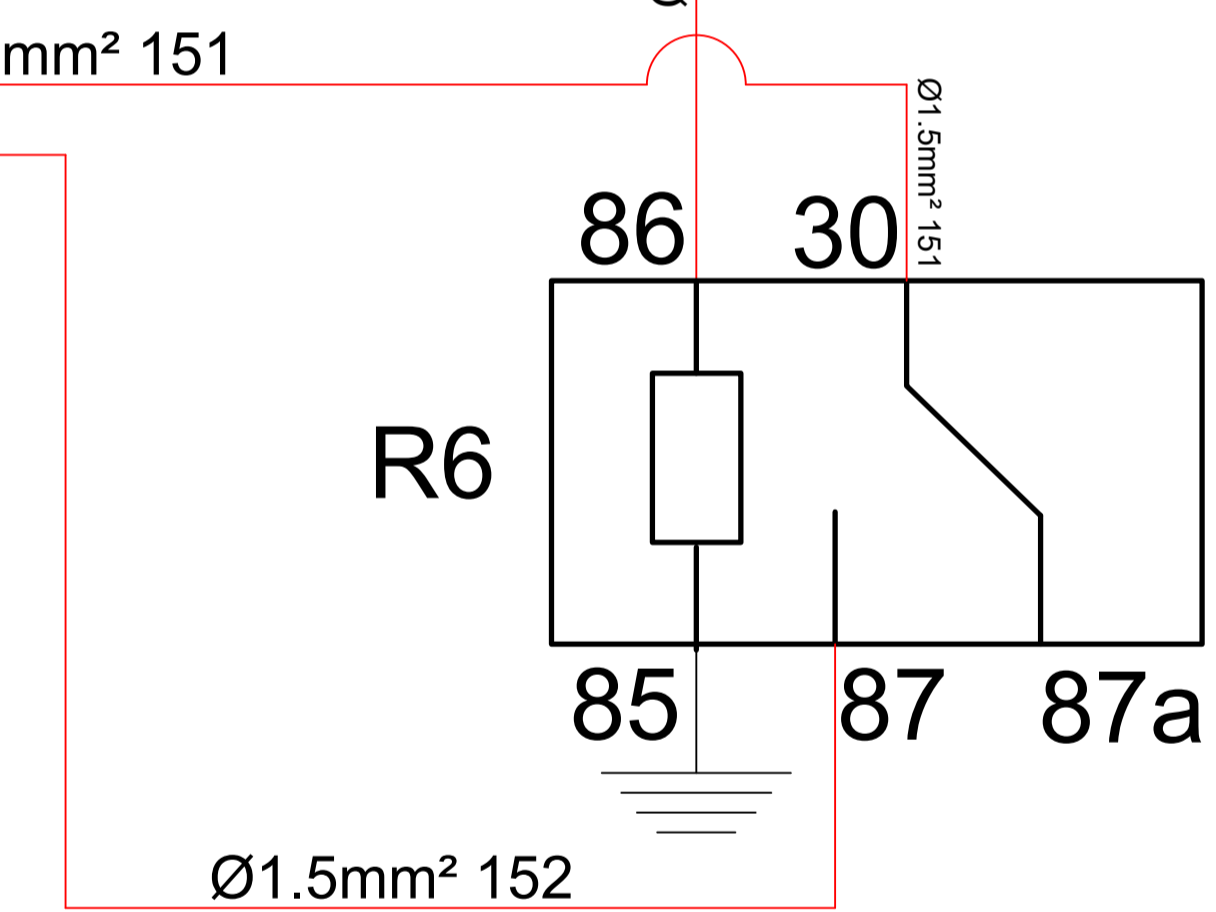
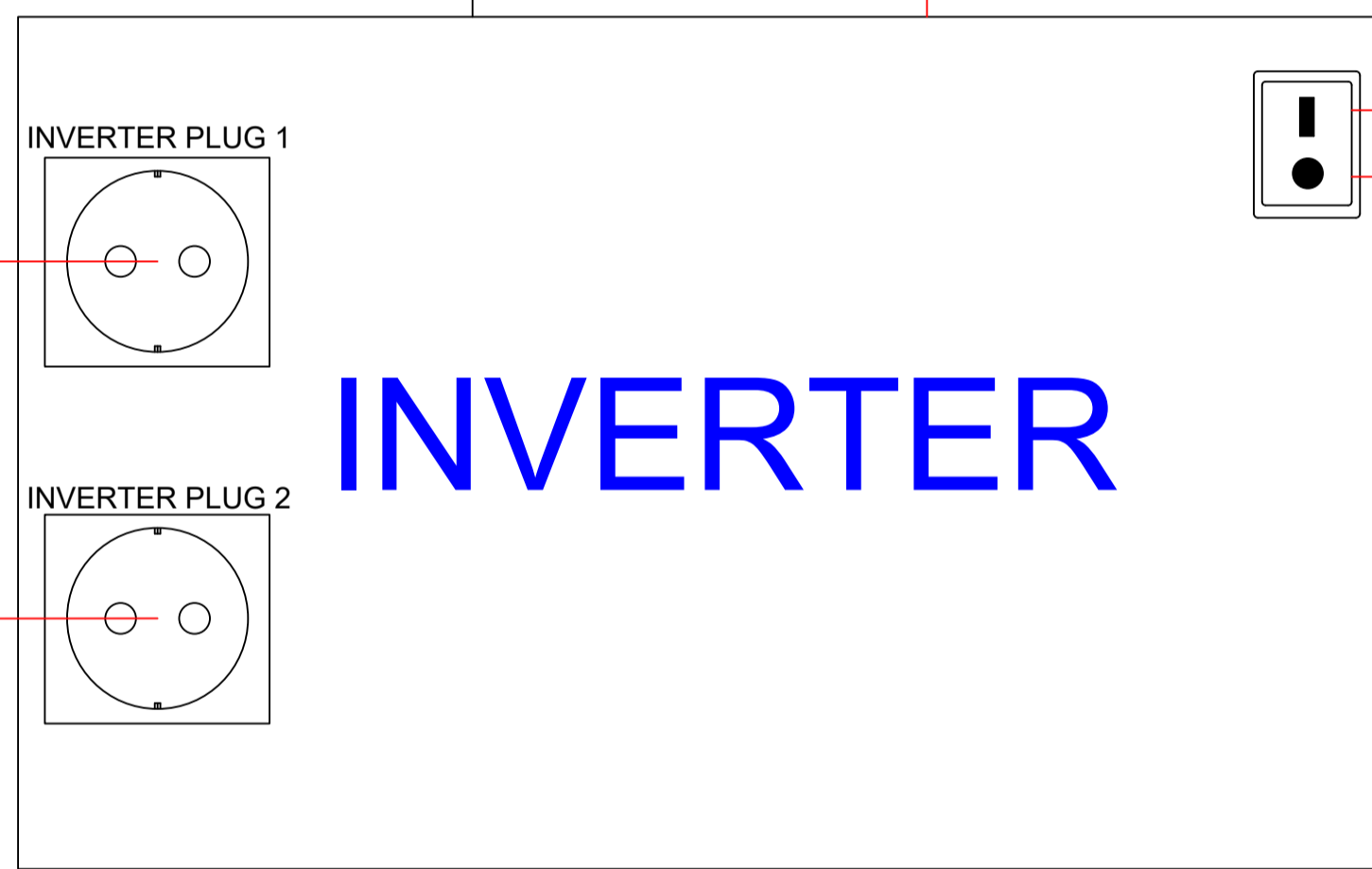
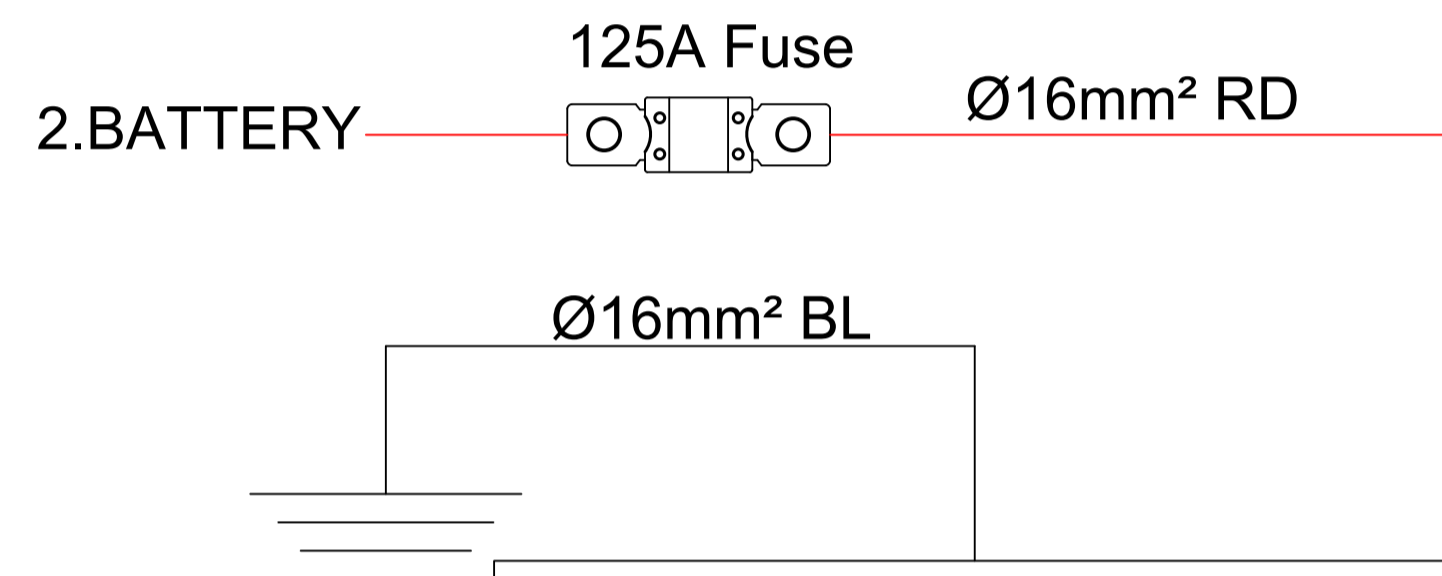
220V  
 12V

D+ SIGNAL Ø1.5mm<sup>2</sup> 45

INPUT 13 CAN-H CAN-L

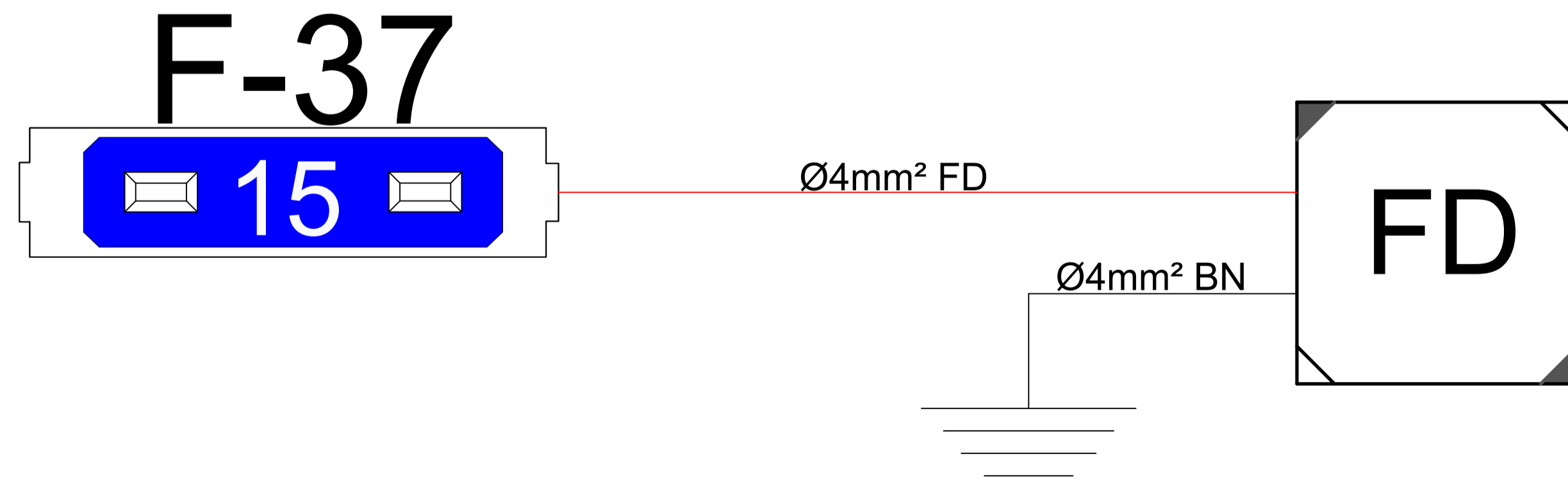
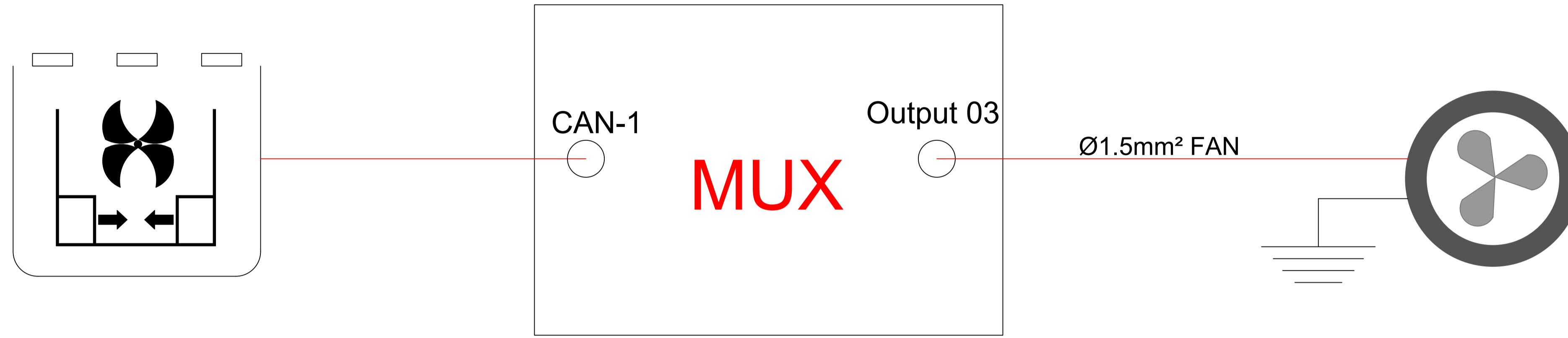
**MUX**


Output 07



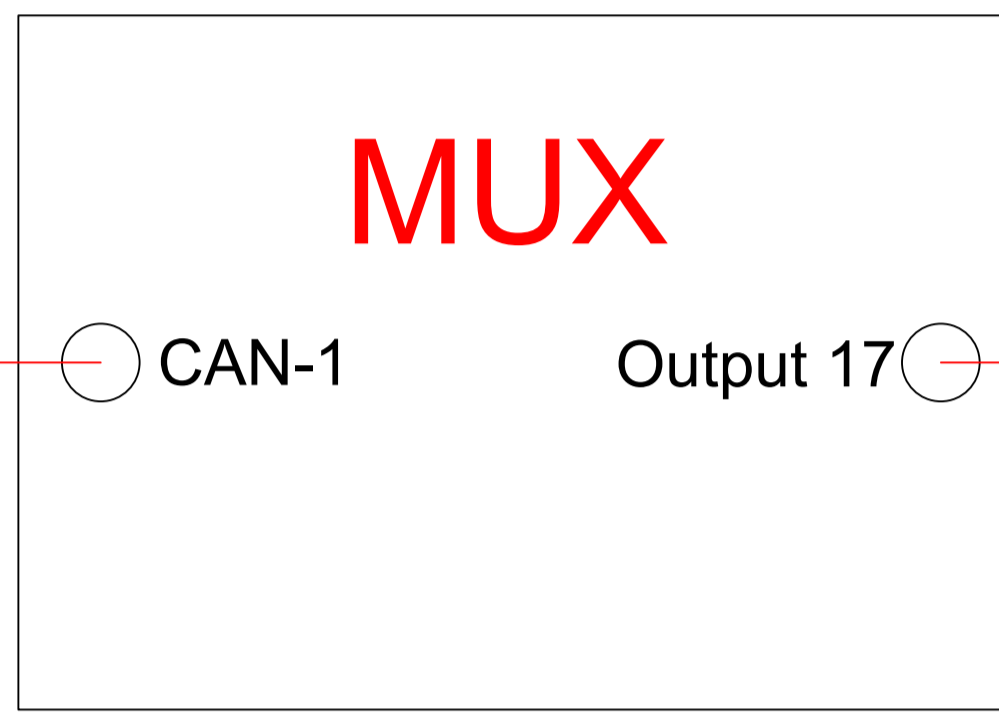
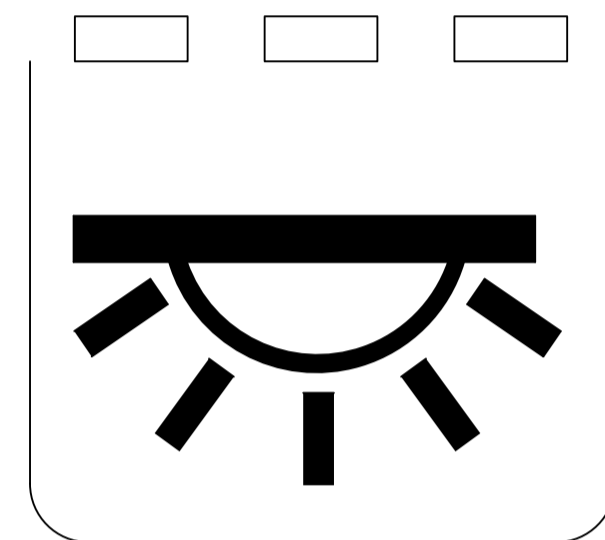
 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 04/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
INVERTER CONNECTION	DRAWING NO / SP-W-0.09	SHEET / 9/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		

OUTPUT 03 LOCATION IS AT THE 9 PIN CONNECTOR

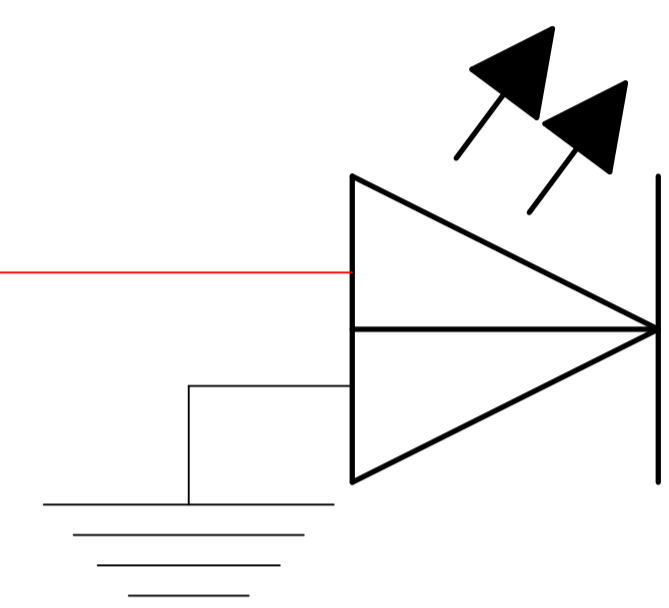


 ILES BUS www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
FAN & FRIDGE CONNECTION	DRAWING NO / SP-W-0.10	SHEET / 10/16
This drawing is the property of ILESBUS and all rights reserved		

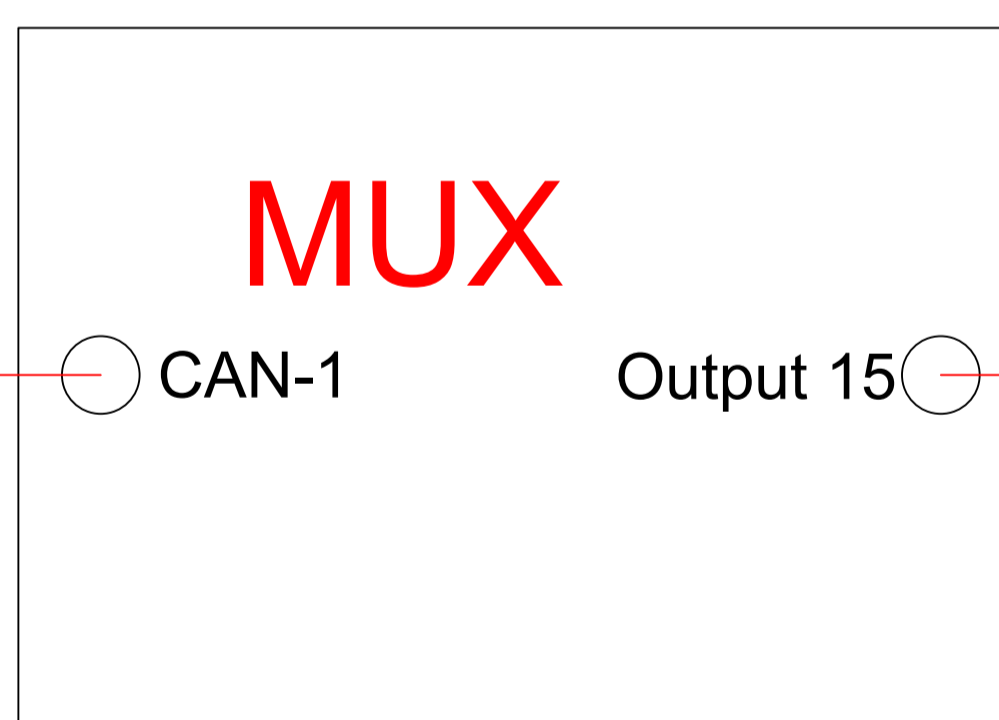
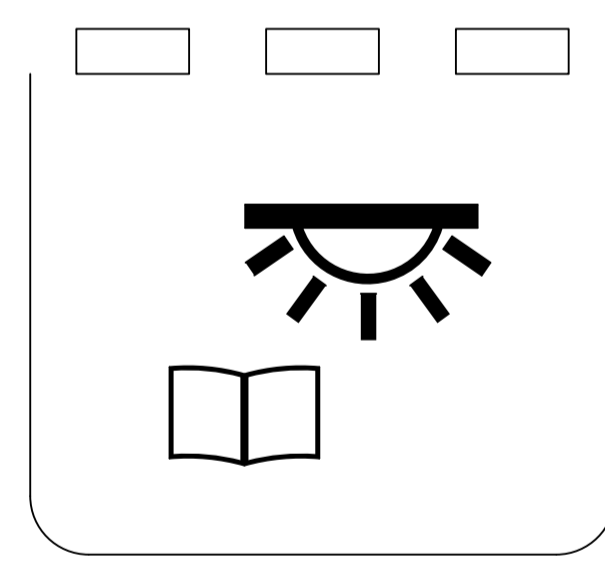
OUTPUT 17 & OUTPUT 15 LOCATION ARE AT THE 18 PIN CONNECTOR



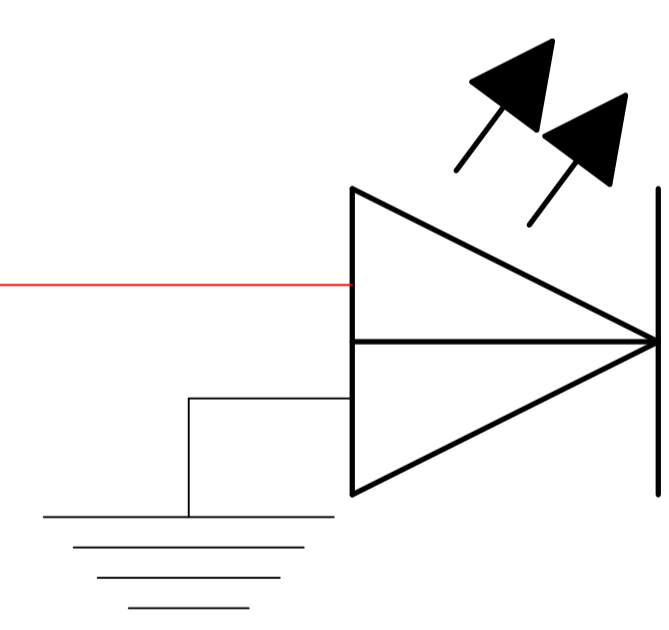
Ø1.5mm<sup>2</sup> 27




**WHITE LIGHTS**



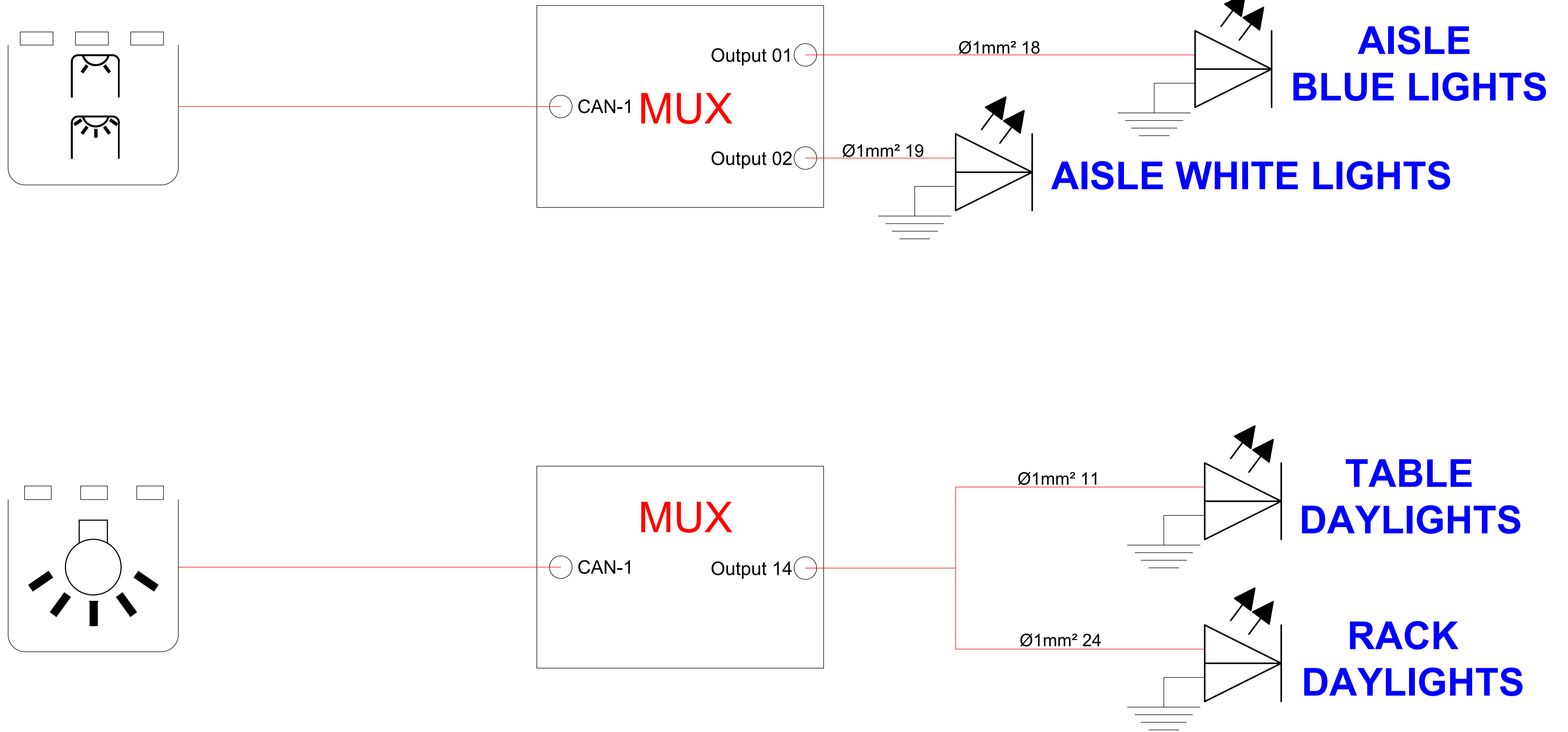
Ø1.5mm<sup>2</sup> 43




**READING LIGHTS**

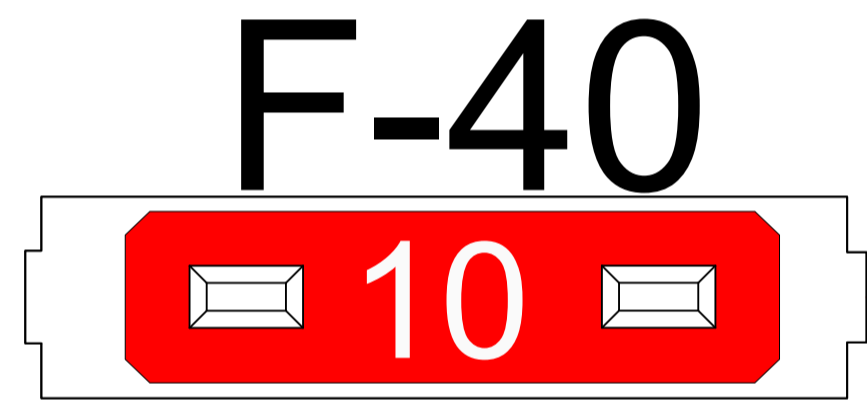
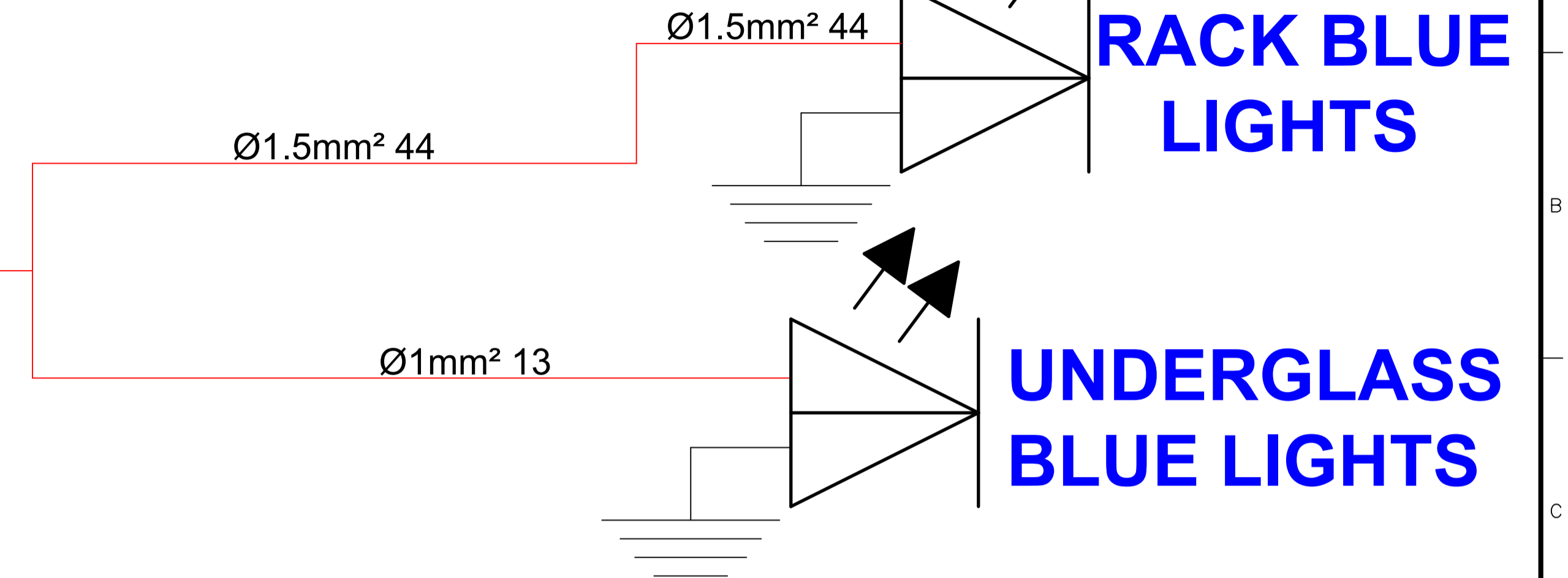
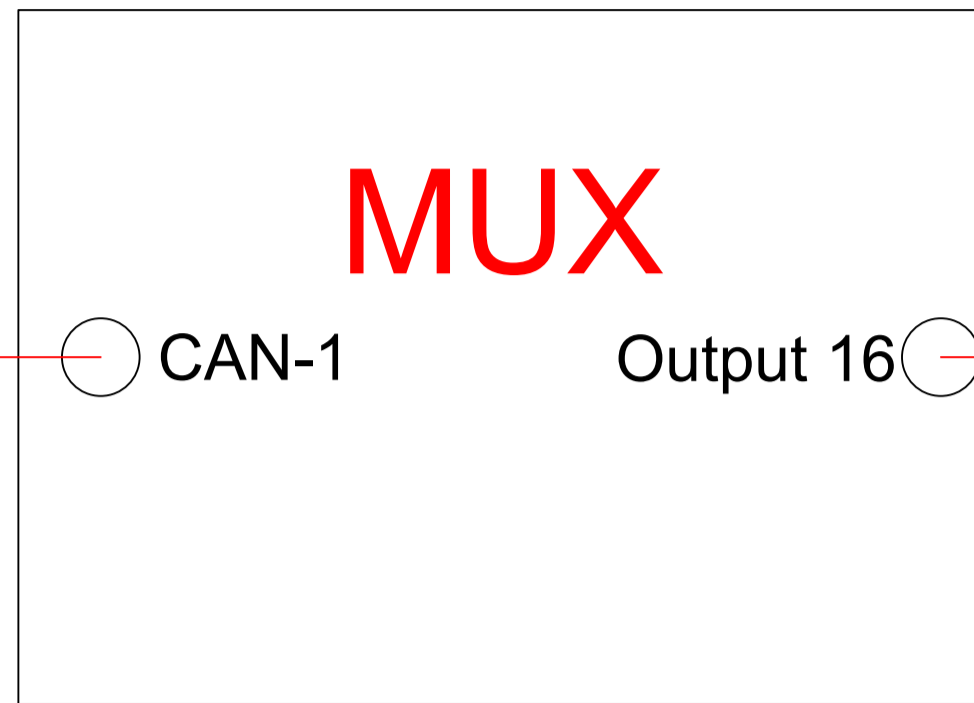
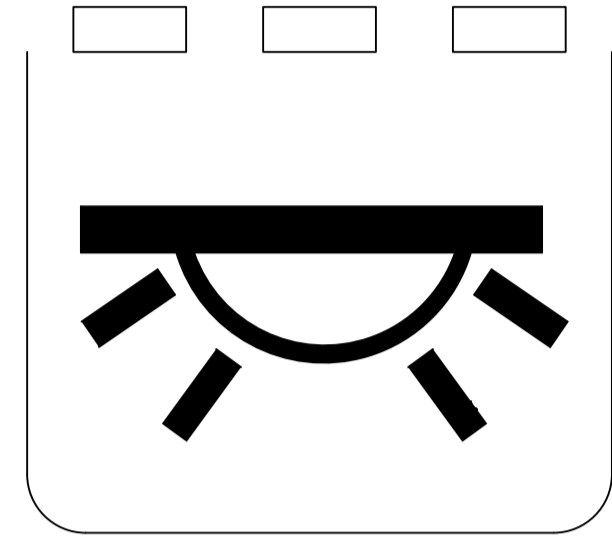
 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
RACK WHITE LIGHTS & READING LIGHTS CONNECTION	DRAWING NO / SP-W-0.11	SHEET / 11/16
This drawing is the property of ILESBUS and all rights reserved		

OUTPUT 01 & OUTPUT 02 LOCATION ARE AT THE 9 PIN CONNECTOR  
 OUTPUT 14 LOCATION IS AT THE 18 PIN CONNECTOR

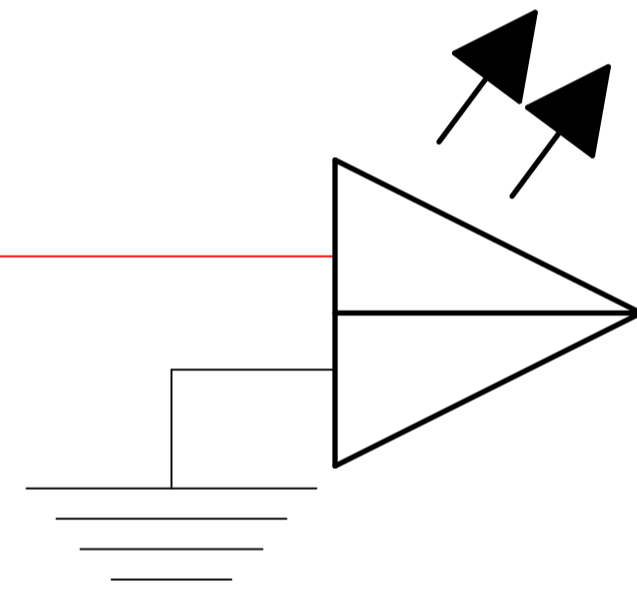


 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
AISLE BLUE & WHITE LIGHTS AND RACK & TABLE DAYLIGHTS CONNECTION		DRAWING NO / SP-W-0.12
This drawing is the property of ILESBUS and all rights reserved		SHEET / 12/16

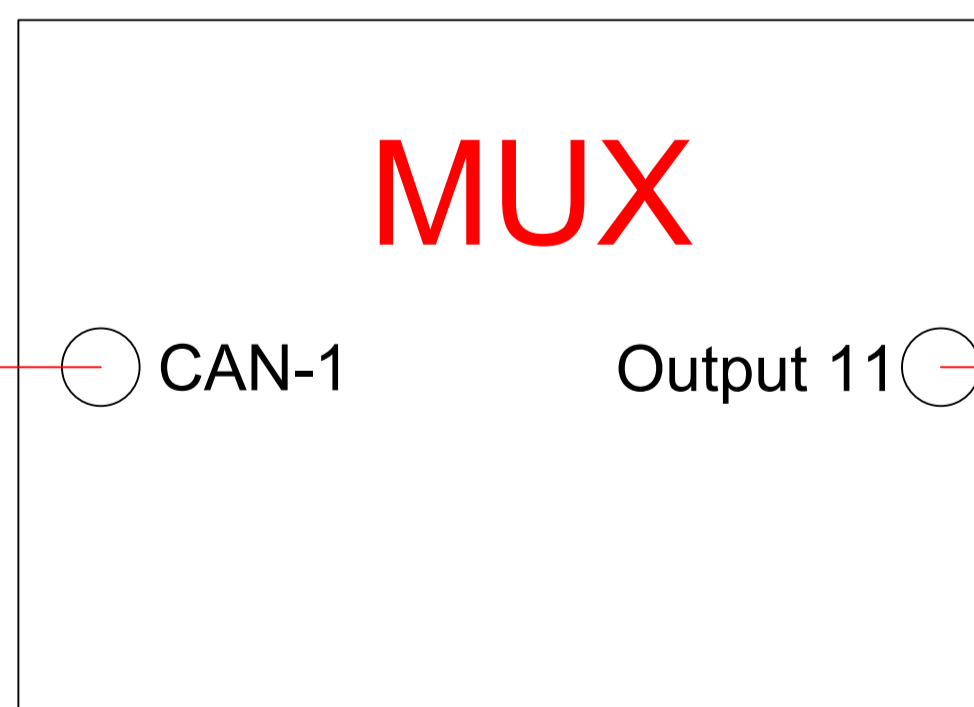
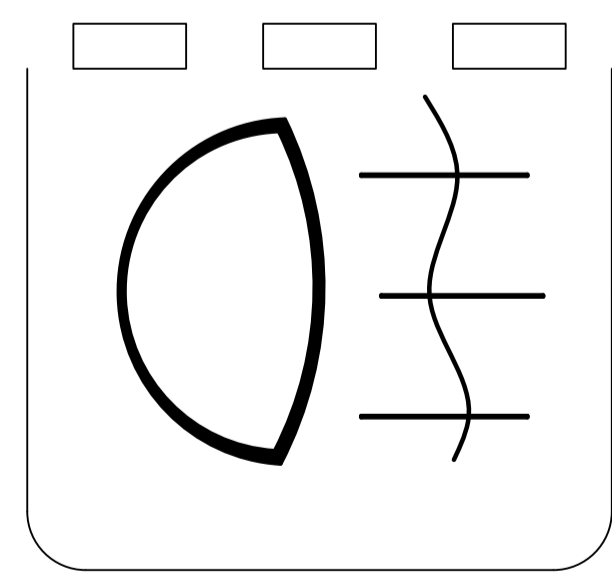
OUTPUT 16 LOCATION ARE AT THE 18 PIN CONNECTOR  
 OUTPUT 11 LOCATION ARE AT THE 15 PIN CONNECTOR



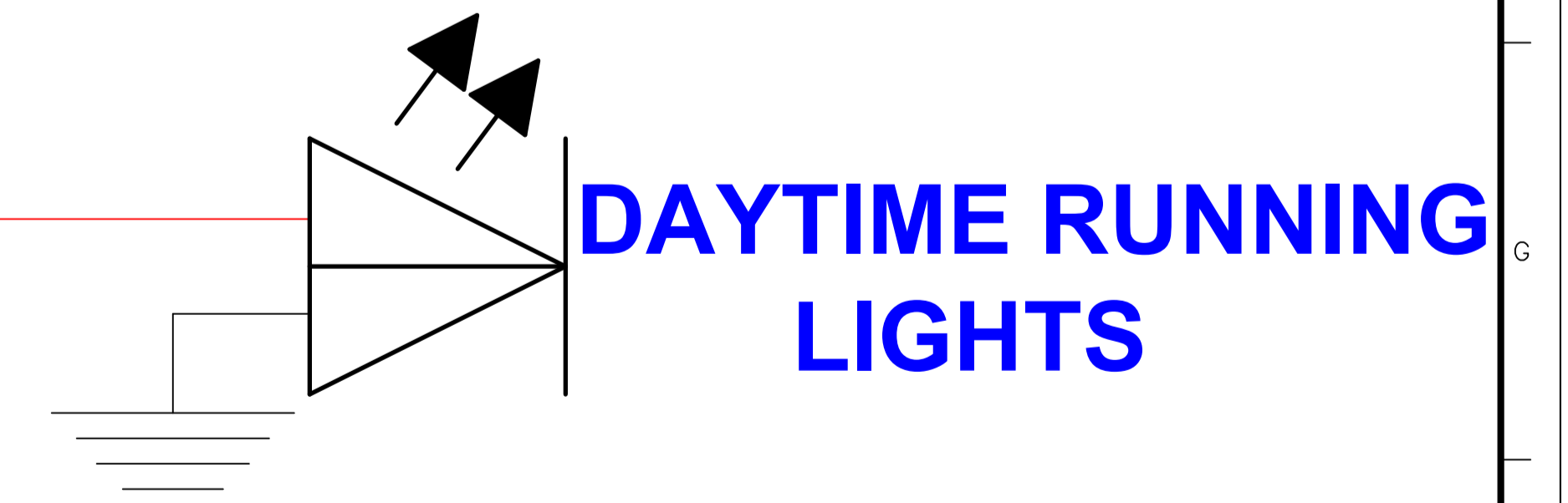
Ø1.5mm² 42



**READING  
BLUE LIGHTS**



Ø1.5mm² 35



**DAYTIME RUNNING  
LIGHTS**

 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL / RACK BLUE LIGHTS & UNDER GLASS BLUE & DAYLIGHTS READING BLUE LIGHTS & DAYTIME RUNNING LIGHTS CONNECTION	FORMAT / A1	SCALE / 1/1
	DRAWING NO / SP-W-0.13	SHEET / 13/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		

OUTPUT 20, OUTPUT 21, OUTPUT 22, OUTPUT 23 & OUTPUT 24 LOCATION ARE AT THE 21 PIN CONNECTOR



CAN-1

Output 20

Output 21

Output 22

Output 24

Output 23

Ø1.5mm<sup>2</sup> 33

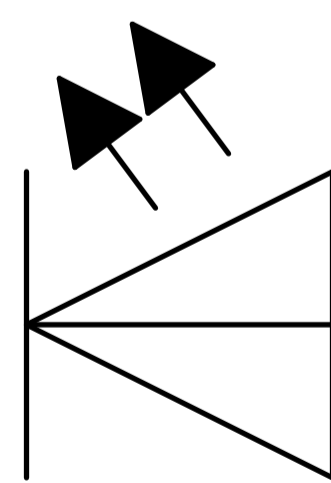
Ø1mm<sup>2</sup> RED

Ø1mm<sup>2</sup> GREEN

Ø1mm<sup>2</sup> BLUE

Ø1.5mm<sup>2</sup> 32

**LEFT SIDE  
RGB LIGHTS**



**RIGHT SIDE  
RGB LIGHTS**



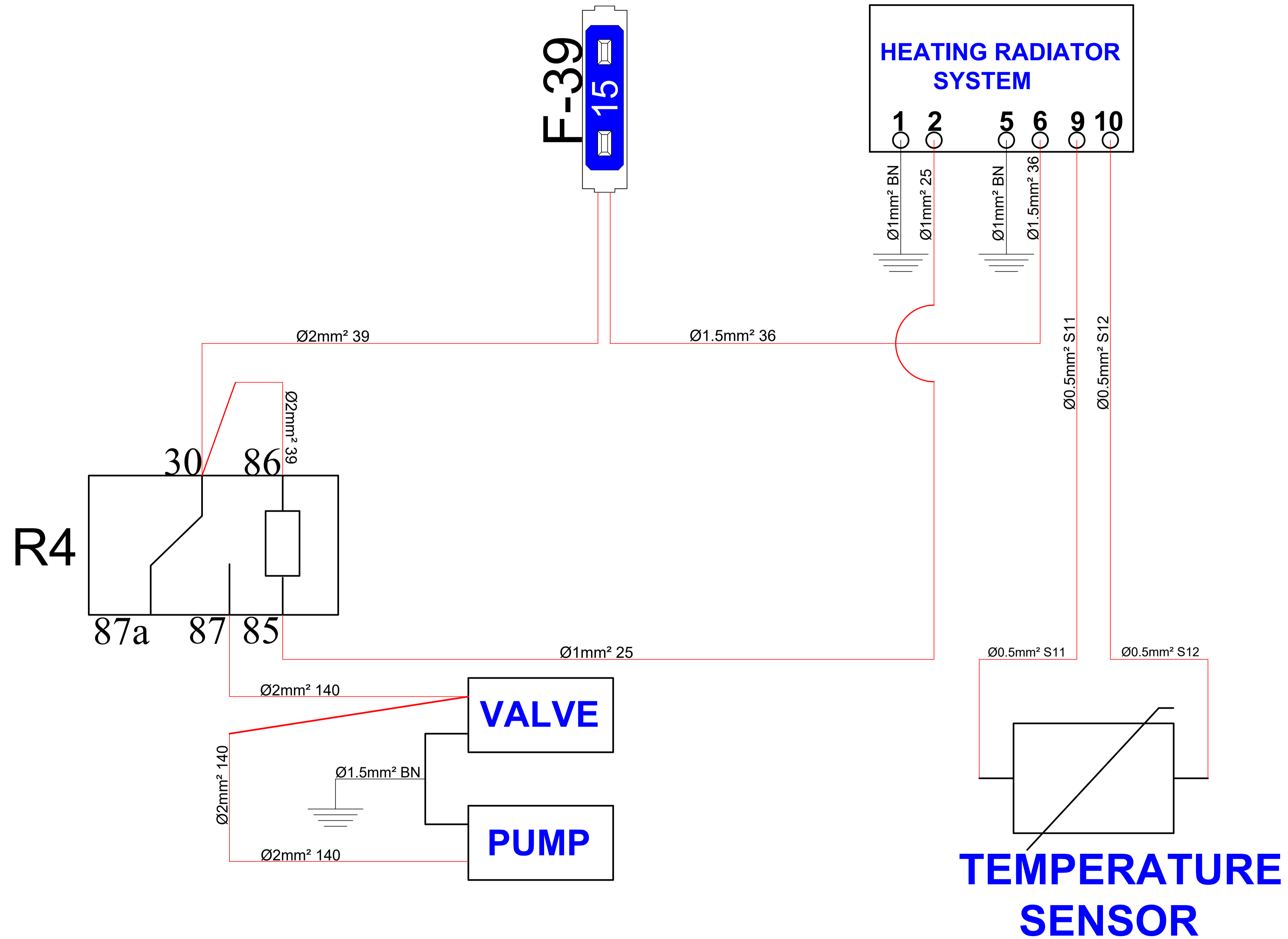
ILESBUS  
www.ilesbus.com


JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN

DETAIL /	FORMAT / A1	SCALE / 1/1
RGB LIGHTS CONNECTION	DRAWING NO / SP-W-0.14	SHEET / 14/16

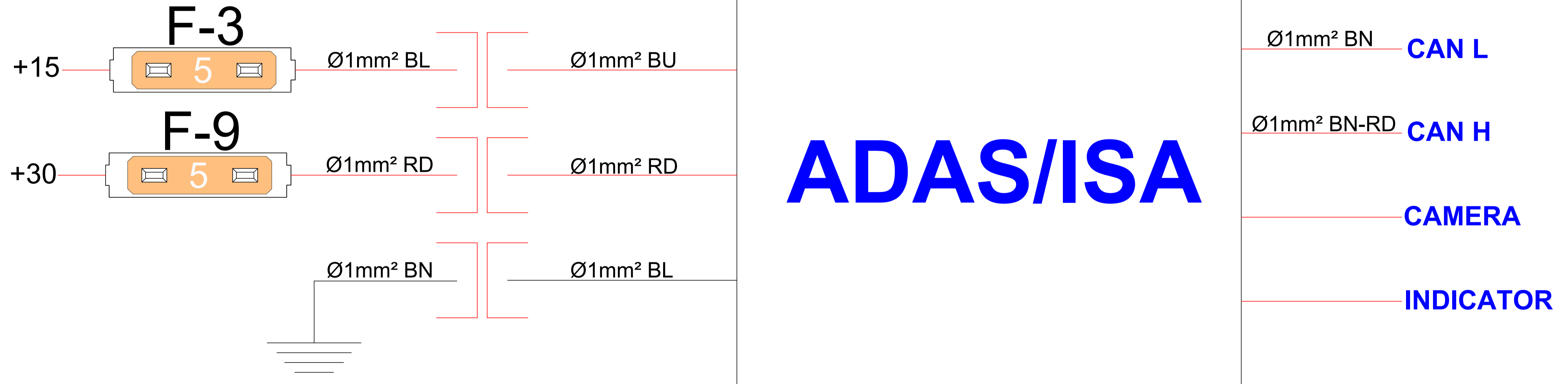
This drawing is the property of ILESBUS and all rights reserved


TEMPERATURE SENSOR LOCATION IS UNDER THE HAND BRAKE  
 VALVE AND PUMP LOCATION ARE NEXT TO FUEL TANK



 www.ilesbus.com	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MIRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	HEATER RADIATOR CONNECTION	FORMAT / A1 SCALE / 1/1 DRAWING NO / SP-W-0.15 SHEET / 15/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		

ADAS SYSTEM MODULE LOCATION IS AT THE RIGHT CORNER UNDER THE TORPEDO  
 CAMERA IS MOUNTED ON THE WINDSHIELD  
 INDICATOR IS MOUNTED ON THE SIDE OF STEERING



 <b>ILESBUS</b> <small>www.ilesbus.com</small>	JOB TITLE / SPRINTER TOURISM	DATE / 05/08/2025
	STEERING / LEFT HAND DRIVE	PREPARED BY / MİRAY KOZLU
	WHEELBASE /	CHECKED BY / YUNUS EMRE YALÇIN
DETAIL /	FORMAT / A1	SCALE / 1/1
ADAS / ISA SYSTEM CONNECTION	DRAWING NO / SP-W-0.16	SHEET / 16/16
<small>This drawing is the property of ILESBUS and all rights reserved</small>		