

## **NOTES for ISUZU – CITIBUS PANELS**

### **CONTENTS**

#### **1. SYSTEM CONFIGURATION**

#### **2. SYSTEM ELEMENTS**

##### **2.1 COMBINED PANEL**

###### **2.1.1 Panel1 Area**

###### **2.1.2 Panel2 Area**

###### **2.1.3 Panel4 Area**

##### **2.2 DATA PREPARATION for PANEL1**

##### **2.3 DATA PREPARATION for PANEL2, PANEL3, PANEL4**

##### **2.4 DATA FILE CREATION as PANEL1, PANEL2, PANEL3 & PANEL4**

##### **2.5 DATA PREPARATION FOR CONTROL DEVICE / UNIT**

##### **2.6 DATA LOADING to CONTROL UNIT & PANELS**

##### **2.7 DESTINATION NUMBER SELECTION FROM CONTROL UNIT**

## 1. SYSTEM CONFIGURATION



Usually, passenger information system composed with one control unit and three panels in a vehicle. These 3 panels are named as front, side and rear panel.

In the case of Citibus vehicle, there are one control unit and two panels. One of them is combined panel including front & side panels and the other one is rear panel (if it is requested).

## 2. SYSTEM ELEMENTS

### 2.1 COMBINED PANEL

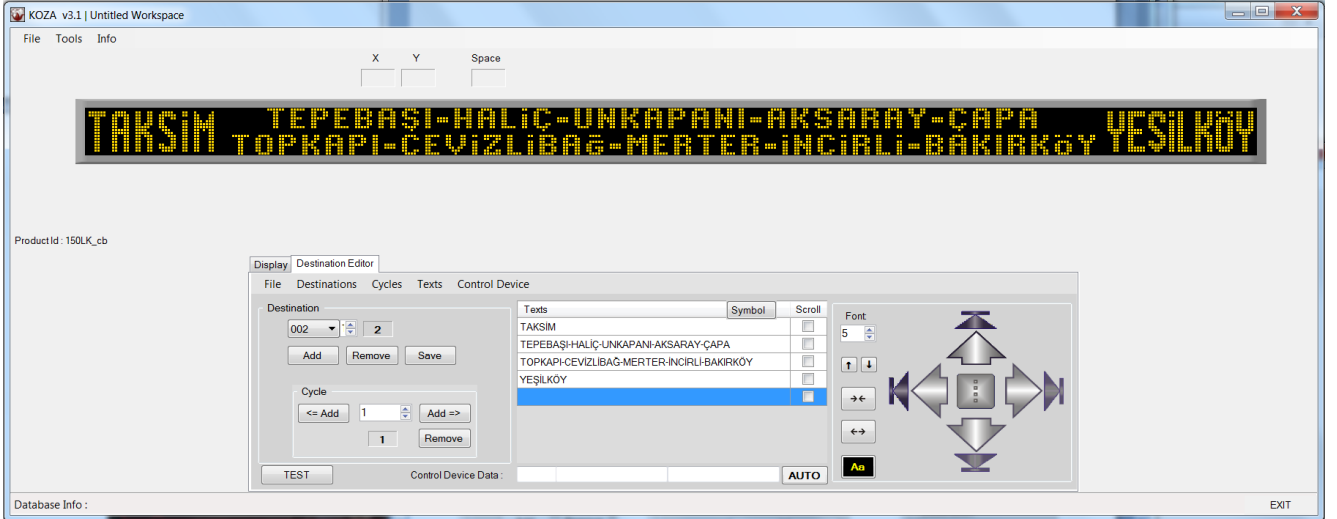
There are three areas in a combined panel of Citibus. Separate files have to be prepared for each area with the names as Panel1.hex, Panel2.hex and Panel4.hex

#### 2.1.1 Panel1 Area :

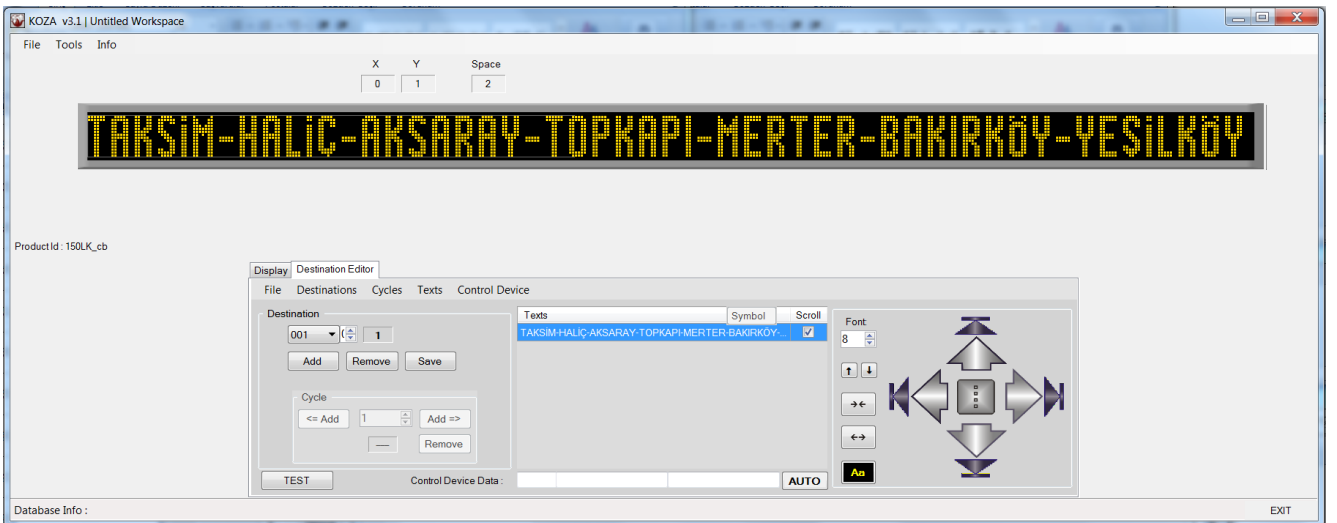
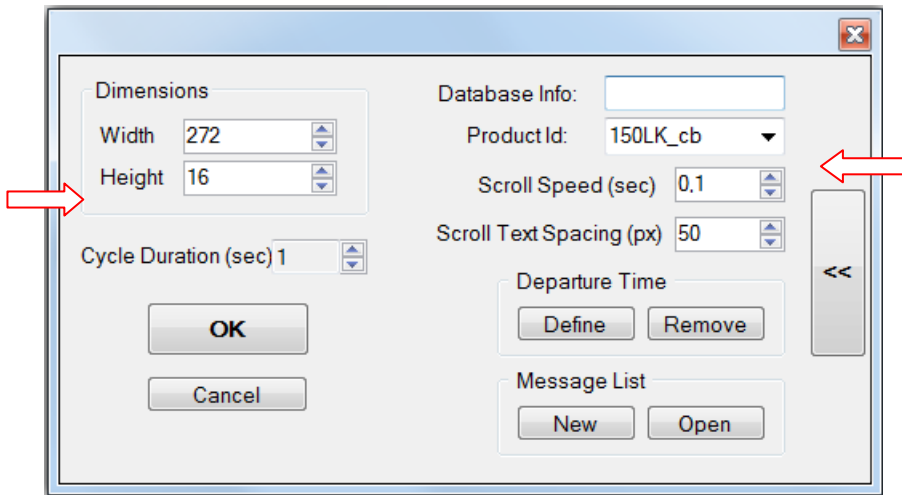
Panel1 area is "running text" area. It has 16 x 272 pixel resolution.

"Setting dimensions" parameter should be set as "width: 16" & "height: 272".

This area is used for showing destination names. Normally, fixed text, cycling text or scrolling text can be shown in this area. But, scrolling text should be used in this area especially for Citibus vehicle (customized by design).



"Product ID" should be selected as "PSO150LK-cb" for ISUZU - Citibus while preparing the panel1.hex file in Koza S/W for identification of scrolling text.



### 2.1.2 Panel2 Area :

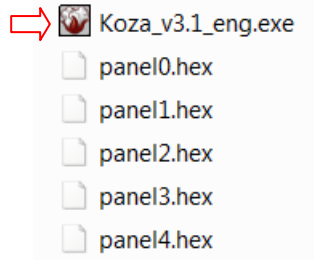
Panel2 area is the "destination number" area. It has 16 x 32 pixel resolution.

### 2.1.3 Panel4 Area :

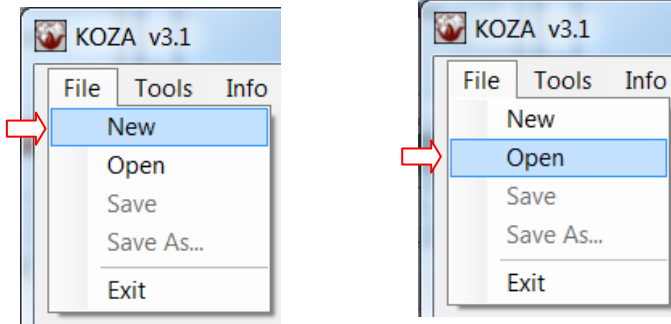
Panel4 area is the " destination number" area. It has 16 x 32 pixel resolution

## 2.2 DATA PREPARATION for PANEL1 :

### 2.2.1 Run "Koza\_v3.1.exe"

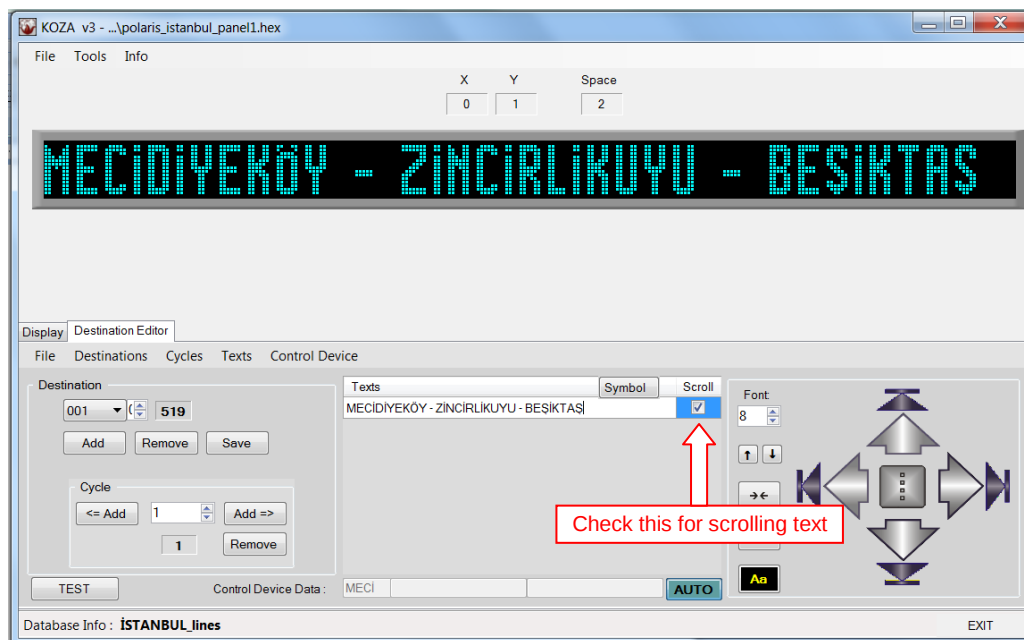


### 2.2.2 Select NEW or OPEN options for panel data preparing.



### 2.2.3 Modification or new data insertion to an existing Panel1.hex file

- Panel1.hex includes data for required destinations.
- Open the existing panel1.hex file from the file open menu.



- Click the “destination editor” tab. Then click over the current text to change the destination.  
Write the desired destination data in text area and check scroll box.
- You can define the destinations in a wide range from 0 to 999.

## 2.2.4 Data Entry

Different Route Definitions are possible between A and D points

One destination number can be defined for bus goes from A point to D point while another destination number can be defined for bus goes from D point to A point as a opposite direction of the first one.

Driver can select “1”, “2” or “3” cases respectively for below mentioned “A-B-C-D”, “D-C-B-A”, “D-E-F-A” route options, from the control panel.

**a)** If bus goes from A point to D point (B and C points are between A and D)

In this case, destination should be like " A-B-C-D ". It can be saved as destination number 1

**b)** If bus goes from D point to A point (C and B points are between D and A).

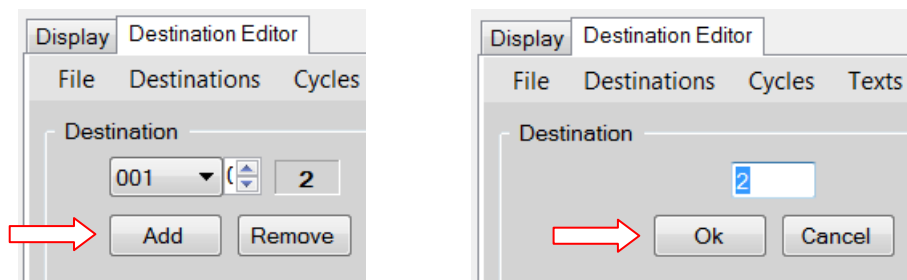
In this case, destination should be like this " D-C-B-A ". It can be saved as destination number 2

**c)** If bus doesn't use the same route on the way back, another destination should be used.

As an example, if a bus goes from D point to A point (E and F points are between D and A).

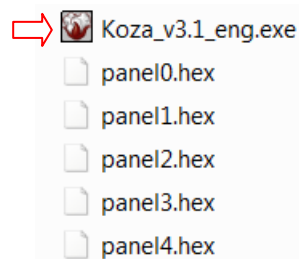
In this situation click “add” button and write the new text such as "D-E-F-A" into the text area.

It can be saved as destination number 3

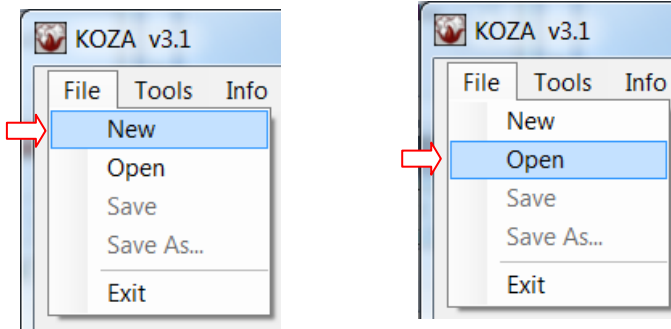


## 2.3 DATA PREPARATION for PANEL2, PANEL3, PANEL4

### 2.3.1 Run "Koza\_v3.1.exe"



### 2.3.2 Select NEW or OPEN options for panel data preparing.

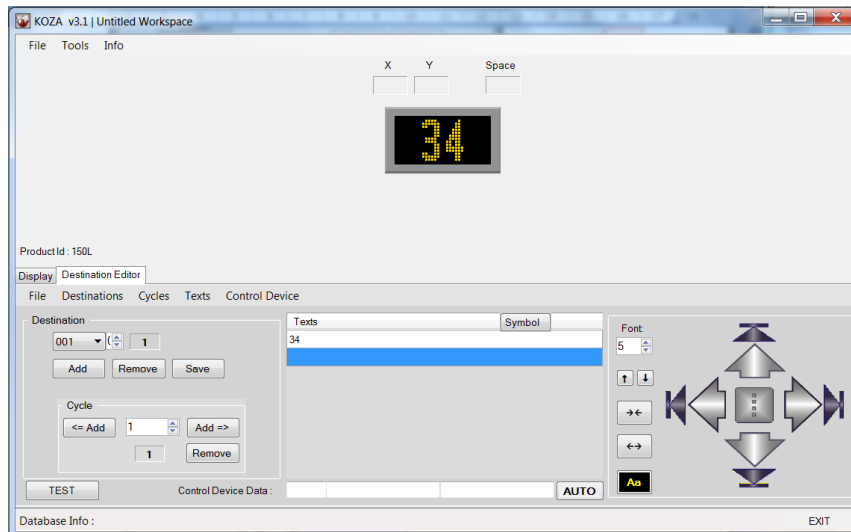
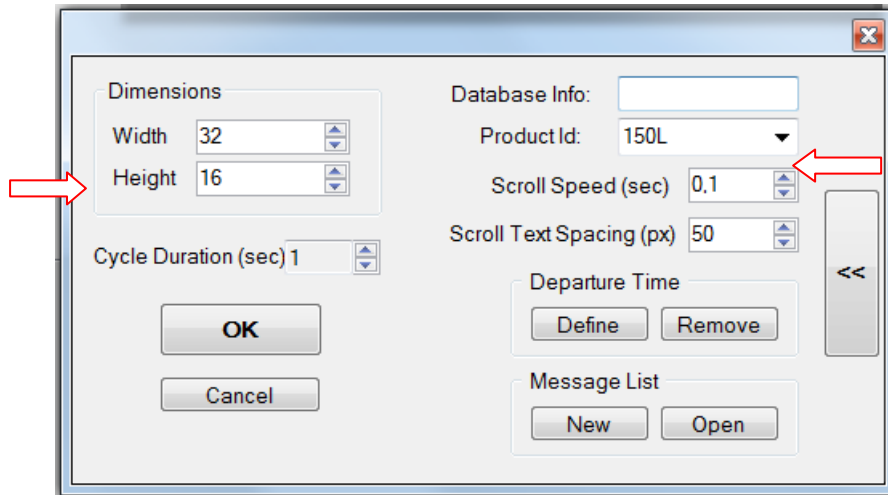


### 2.3.3 Modification or new data insertion as Panel2.hex, Panel3.hex and Panel4.hex files:

These files are prepared similar to Panel1.hex. Panel2.hex & Panel4.hex have to be prepared as a part of combined panel. But, it is not necessity for preparation of Panel3.hex file.

Panel3.hex is needed for rear destination board of Citibus. If rear panel is not used in a vehicle, "panel3.hex" file is not needed.

While preparing panel2.hex, panel3.hex or panel4.hex file in Koza SW, "Product ID" should be selected as "PSO150L" and dimensions should be set "width: 32 height: 16" for ISUZU – Citibus.



- **Panel2 is related with "line number" area.** It has 16 x 32 pixel resolution.

Its data should be prepared and saved in a file named as panel2.hex.

"Product ID" should be selected as either "PSO150L " or "PSO150LK-cb" (not important)

- **Panel4 is related with "line number" area.** It has 16 x 32 pixel resolution.

Its data should be prepared and saved in a file named as panel4.hex.

"Product ID" should be selected as either "PSO150L " or "PSO150LK-cb" (not important)

Generally a second copy of panel2.hex, which is renamed as panel4.hex can be used for this purpose. Hence, same data insertion will not be needed.

- **Panel3 is related with rear panel.** It has 16 x 32 pixel resolution.

Its data should be prepared and saved in a file named as panel3.hex.

"Product ID" should be selected as either "PSO150L " or "PSO150LK-cb" (not important)

Generally, third copy of panel2.hex, which is renamed as panel3.hex can be used for this purpose.

## 2.4 DATA FILE CREATION as PANEL1, PANEL2, PANEL3 & PANEL4

When all data are entered, modified file have to be saved with the same name.

(If data files will be loaded to the panels, don't change any panelx.hex name. Keep them with their original names. If it is necessary for another case, they can be saved with different file names too)

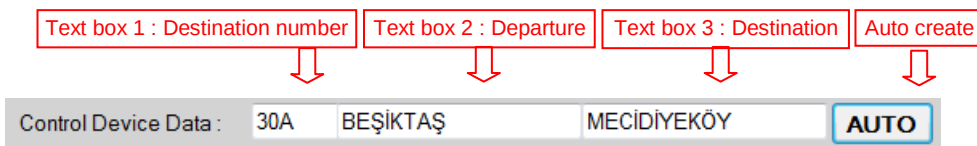
## 2.5 DATA PREPARATION FOR CONTROL DEVICE / UNIT

Destination data, which is inserted in display format of Control Unit, have to be saved as "panel0.hex" file. Panel0.hex that is loaded to control device is used for controlling all panels on the vehicle.

**Read Data :** Reads data from an existing "panel0.hex" file.

**Save Data :** Creates a new "panel0.hex" file on disk or updates an existing panel0.hex file.

In order to be most effective, user should enter data for destinations to reserved text boxes shown in below *Figure*. It is advised to insert all the data manually for Citibus users. On the other hand, if the user follows given instructions and then clicks *Auto* button, PC software will create data of control device automatically.



| Text box 1 : Destination number | Text box 2 : Departure | Text box 3 : Destination | Auto create |
|---------------------------------|------------------------|--------------------------|-------------|
| 30A                             | BEŞİKTAŞ               | MECİDİYEKÖY              | AUTO        |

**Control Device Figure**

## 2.6 DATA LOADING to CONTROL UNIT & PANELS

- Save all panel.hex files into an usb stick.

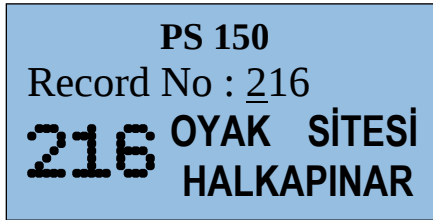
- Insert usb stick to the control panel and load all destinations.

Sometimes there may be some crashes due to the version of usb stick.

If control panel doesn't see inserted one, change unreadable usb stick with another usb stick.

Detailed information could be found in .pdf files that are sent to the user as documents related with "KOZA" software & Control Device

## 2.7 DESTINATION NUMBER SELECTION FROM CONTROL UNIT



**Figure:** Screen of Destination Number Selection



To access to screen of destination number selection,

**F2** button should be pressed first.

Record number can be selected in a range from 0 to 999 on this screen

While browsing the records, the record number's each digit can be changed individually for convenience by using related buttons.



Desired digit can be selected by right arrow button



Desired digit can be changed individually by up & down buttons without affecting the other digits.

During record number is being changed, corresponding destination and route data is displayed on the screen to make the selection process ease. When a selected number doesn't have a corresponding route data, "Undefined Line" message appears on the LCD screen