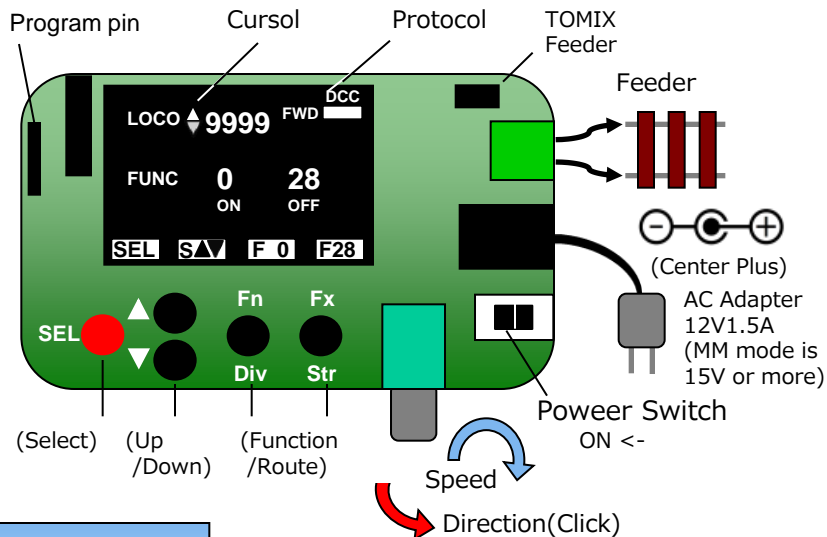


MintCanIV-R1.3 DCC Controller Instruction

Figure



Push Button

- SEL ● ... ◀ Cursor move, ▲ ● / ▼ ● ... ◀ Up/Down the value.
 - SEL ● hold down and ▼ ● ... go to route. Press again to route edit.
 - SEL ● hold down and ▲ ● ... return to function operation.
 - SEL ● long press ... Option : OPS / Consist address write.
- ※The name of the button is show at the OLED display.

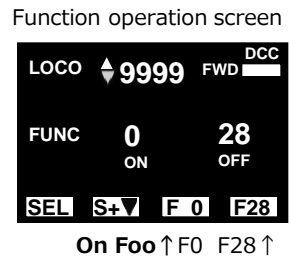
Specification

System Suppor	DCC128, MM, Analog PWM(31KHz)
DCC addressing	Loco 1-9999(50QT), Turnout 1-2044
Function	F0 - F28
CV Protocol	OPS mode, Direct mode
Voltage and current	12-19V、 1.5A max

※ In both modes, it is possible to select the loco address and change the loco speed.

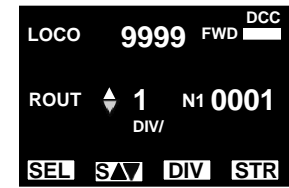
Function operation screen

When the power is on, it is the function operation screen. 1 to 50 assigned Loco address selection (0 is analog mode) , Assign function numbers from 0 to 28 to Fn and Fx buttons , and turn them on and off.



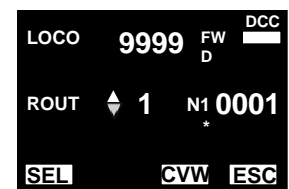
Route operation screen

Select the route number from 1 to 25, and perform the DIV (branch) with the Fn button and the STR (straight) operation with the Fx button.



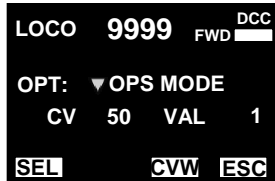
Route edit screen

At most 10 accessory addresses from 1 to 2044 can be registered to each route number from 1 to 25. Select the registration number in the item of N. SEL ● Select the digit with the button and set the 4 digit address.

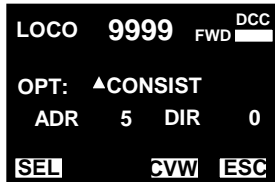


Option mode

Long press SEL ● on the function operation screen ...



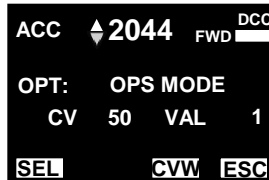
OPT:OPS MODE
Write the CV to the decoder of the address selected on the running track.



OPT:CONSIST
Writing the consist address (ADR) to the decoder address being selected, driving multiple Locomotive with one address.
DIR is normal direction or opposite direction. (Unsupported because support decoder is unconfirmed)

Long press SEL ● on the route operation screen ...

OPT:OPS MODE
Write the CV to the selected accessory address.
※ Since the accessory address to be selected displays the address registered by route editing, duplicate addresses may be displayed.



Fn ● (CVW) ... Write Exec 、 Fx ● (ESC) ... Return to operation
Writing ADR 0 releases the Consist address.

For details of the operation method, please see the DesktopStation - Wiki page below.
https://desktopstation.net/wiki/doku.php/mint_can_controller2

Address assign and writing

Fx ● Long press and Power on ...

Assign the base address from 1 to 50 with any extended address from 1 to 9999.

Assigned by ENT and CV is written in by CVW.

If you do not need to change CV29 you can skip writing with SEL ● + ▽ ● .

Address assign

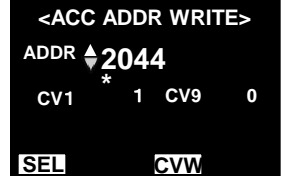


Accessory address write

Fn ● Long press and Power on ...

Writes addresses from 1 to 2044 to the accessory decoder.

Accessory address write



CV writing

Long press SEL ● in Address assign or Write accessory address mode to change to CV writing mode.

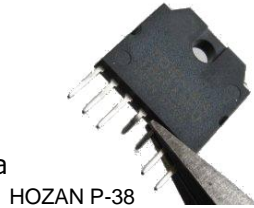
※ Please understand CV and operate it.

MintCanIV-R1.5 DCC controller kit assembly

When it's soldered from a part with the low height by order of the right partial list, it's easy.
 Forget about soldering or please pay attention to solder bridge. Since CN1, SW1 have high specific heat, use a large soldering iron or adjust the soldering iron and let the solder flow completely.

Caution

- Bending of IC1 pin
 Begin to hold it by thin radio pliers in a point and bend from the center so that a stress isn't given to a mold.
 The bend location is 1mm from a mold.
- Orientation of IC 2 and soldering of C3 →
- The polarity of C1 and the orientation of IC3
- Tilt of CN1, CN2, SW1, SW2 - SW6.
- The height of S1+OLED is 11 mm, Spacer beside IC 3 is 10 mm. then OLED does not horizontal.



HOZAN P-38



IC2

Parts List ※Order Code : akizukidenshi.com mail order code

No	Parts	Oder Code	comment
R2	6.8Kohm 1/4W resistor		682 5%
IC1	TB6643KQ	I-07688	
(IC3)	DIP 28pins socket	P-00013	
C5	0.1uF(104), MLCC	P-11701	5.08mm
C4,6	1uF(105), MLCC	P-04066	2.54mm
CN2	KF2EDG-3.81 (L-2P)		Aliexpress
XT1	Ceramic resonator	P-04549	16MHz
IC2,C2,C3	TA48M05F(SQ)	I-00451	
TMX(J1)	1x2 pin header	C-00167	
J2	1x6 pin header	C-00167	
CN1	DC juck	C-09408	
SW1	SS12D10 2A slide	[SS12D10]	Aitendo
R1	R0921GS 10KOhm	[R0921GS]	Aitendo
	Knob	P-00253	
C1	220uF35V 105°C	P-11758	
S1	1x7 pin frame	C-05779	h 11mm
SW3-6	Tact switch Black Cap	P-09824	
SW2	Tact switch Red Cap	P-09825	
IC3	ATMEGA328P-PU	I-03142	
D1	OLED0.98 SPI I/F		Aliexpress
	M2 nylon screw set		h 10mm