













DT100R LOCOMOTIVE SELECTION



You need to be connected to Loconet to perform this operation.



1. Turn the throttle knob  or  you want to run a loco on about a quarter turn (this lets the controller know you want to address that throttle.)
2. Push the  button.
3. Turn the throttle knobs  and  until the display matches the locomotive number you wish to run. Address 00 is a special address to run a locomotive without a decoder. When address is two-digit addressing  (colon on LCD), the address is the left two digits of the display. When display is showing a four-digit address  (no colon on LCD), then use left knob  to change upper two digits and right knob  to change lower two digits with rollover.
4. (optional) If you want to change the status of this address press  and turn  to the new status code, you can only change the second digit of the status code. See below.
5. Push  again.
6. Repeat for the other throttle, if desired.



Type of Address	Min Value	Max Value	LCD colon	EXP light
4 digit	128	9983	Not shown	Lit
2 digit	01	C7 (127)	Shown	Not Lit
Analog loco	00	00	Shown	Not Lit
Alias	Only aliases that have been setup		Not shown	Flashing


DT100R OPERATION


These operations can be performed on a DT100R when disconnected from Loconet.


Knobs  and : clockwise increase speed, Counter-clockwise decrease speed.




Direction LEDs: green  for locomotive going forward, red  for locomotive in reverse, flashing means that that throttle is the active one, orange if track power is not on.

Direction buttons  and : press to change direction for the Left and Right throttles respectively, see LED for which direction you are going.

+ button : increase speed by one step, hold for multiple steps.

- button : decrease speed by one step, hold for multiple steps.

Run/Stop button : press and hold to emergency stop active locomotive.


Func button : press to enter function mode, function mode exits automatically a couple seconds after last key press. While in function mode press , **F1**, **F2**, **F3**, or **F4** to toggle the corresponding locomotive function, press and hold  and press **F5**, **F6**, **F7**, or **F8** toggle the corresponding locomotive function. Function status of last function used is displayed on LCD. Note: **F2** is a non latching button, **F2** is on only when pressed, off when released.

DT100R MU OPERATION

You need to be connected to Loconet to perform this operation.


1. Select the top locomotive on the right side throttle. Top locomotive is usually the lead locomotive.
2. Select the engine to be added on the left side throttle.
3. Make sure all the locomotives in the consist are traveling in the same physical direction. The direction lights may or may not be the same (green or red) depending on the orientation of the locomotives in the consist (head to tail or tail to tail).

4. Push mode Button  2 times so MU is underlined on LCD .

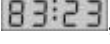
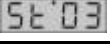
5. Press the + button  to add left locomotive to the consist of the right throttle.

6. Now the right throttle controls the speed and direction of all locomotives in the consist as well as the functions of just the top locomotive. The right throttle does not control the speed or direction but does control the functions of the selected locomotive.

To disconnect the MU'd locomotives change step 5 and 6 to:

5. Press the - button  to remove the left locomotive from the consist of the right throttle.
6. Now the right throttle now controls the consist with out the locomotive of the left throttle. The left throttle now controls that locomotive.

DT100 STATUS CODES

When in address select mode and two-digit address is displayed , the right two digits are the locomotive status code. When a four digit address is displayed, a couple seconds after the last change in the address the LCD will change to  which is the status code for that locomotive.

Loco STATUS Codes Left Digit			
Status Digit Value	State	Selectable	Refreshed
0y	New	Selectable	Not refreshed
1y	Common	Selectable	Refreshed
2y	Idle	Selectable	Not refreshed
3y	In-use	Not selectable	Refreshed
5y	Common	Not selectable	Consisted / refreshed
7y	In-use	Not selectable	Consisted / refreshed
Loco STATUS Codes Right Digit			
Status Digit Value	Meaning		
x0	Normal 28 step		
x1	Motorola Trinary / AC Digital type decoder		
x2	Baseline 14 step		
x3	128 step (default)		
x4	28 step FX decoder (enable advanced consistng)		
x7	128 step FX decoder (enable advanced consistng)		
xb	128 step & Consist TOP		