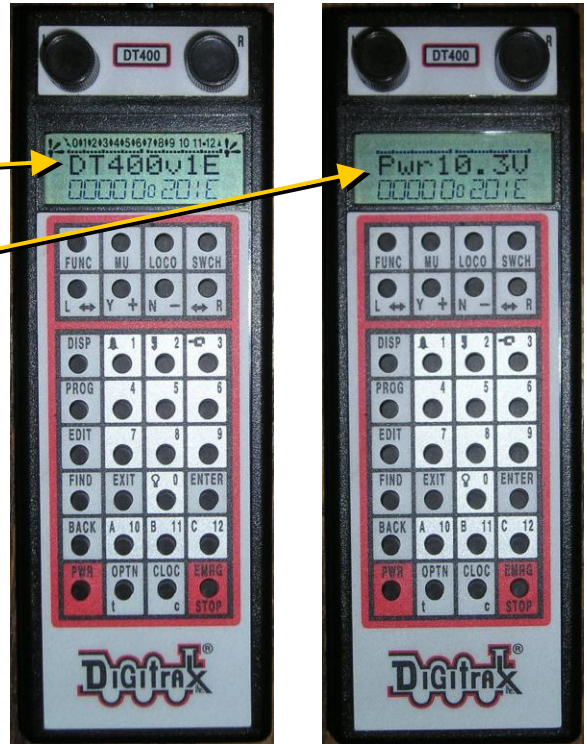


## DT400/DT400R

When a 9 volt battery is inserted in a DT400 or DT400R throttle, the following two splash screens are displayed in sequence.

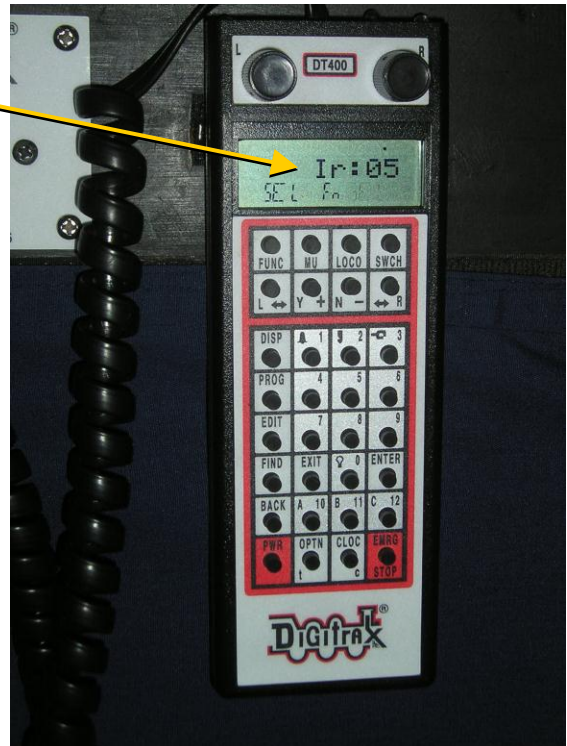
The first splash screen displays the firmware ID and version.

The second splash screen displays the battery voltage.



When a DT400 or DT400R throttle is plugged into the LocoNet it displays either Ir or Ra and the LocoNet ID of the LocoNet it is plugged into.

When a DT400R throttle is then unplugged, it will only control trains on a LocoNet with that ID.



A DT400 throttle has no radio capability and needs to be plugged into the LocoNet to change any setting, such as speed and direction. However, it will work as a memory throttle. You can unplug the DT400 and the train will maintain its speed and direction until the DT400 is plugged in and a setting is changed.

A DT400R has a simplex (one way) radio capability. Once the LocoNet ID has been set by plugging it into the LocoNet, speed, direction and functions, e.g. headlight, can be controlled with the DT400R unplugged. The DT400R needs to be plugged into the LocoNet for all other operations, such as entering a decoder number.

## DT402D

When a 9 volt battery is inserted in a DT402D throttle, the following three splash screens are displayed in sequence.

The first splash screen displays the firmware ID and version.

The second splash screen displays the Duplex Group Name and Duplex Channel ID. The group name for our N-Trak layout is currently set to OKNRail and the channel is 26.

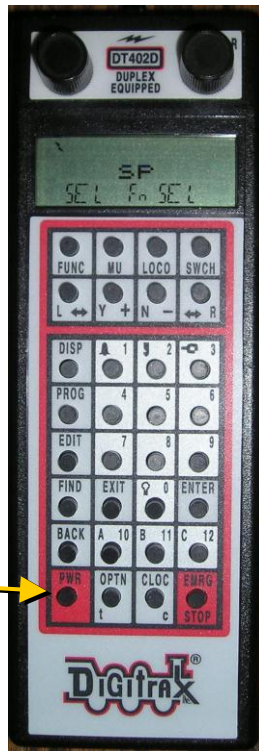
The third splash screen displays the battery voltage and Duplex Channel ID. A DT402D throttle needs at least 8.0V to operate reliably.



A DT402D has a duplex (two way) radio capability. If the throttle displays the correct Duplex Group Name and Duplex Channel ID, all throttle functions can be performed without being plugged into the LocoNet, and the throttle should not be plugged into the LocoNet. If the throttle does not display the correct Duplex Group Name and Duplex Channel ID, briefly plug the throttle into the LocoNet to set the group name and channel.

## Track Power (DT400/DT400R/DT402D)

To turn track power on or off, first press the PWR button.

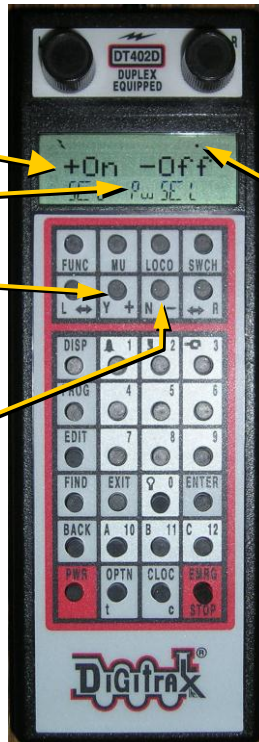


The throttle message displays +On -Off.

The Mode Indicator displays Pw.

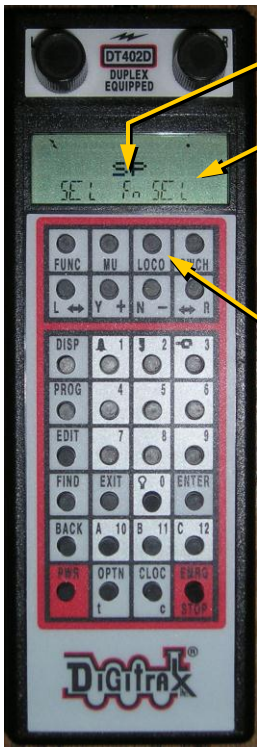
To turn track power on, press Y +.

To turn track power off, press N -.



Note the track power indicator dot. If it is flashing, press Y + again to change it to on steady indicating track power on.

## Enter Loco ID (DT400/DT400R/DT402D)



The Mode Indicator displays FN.

Throttle address shows flashing SEL (or previous loco #) indicating which side is active. Note: to switch sides turn knob on the other side.

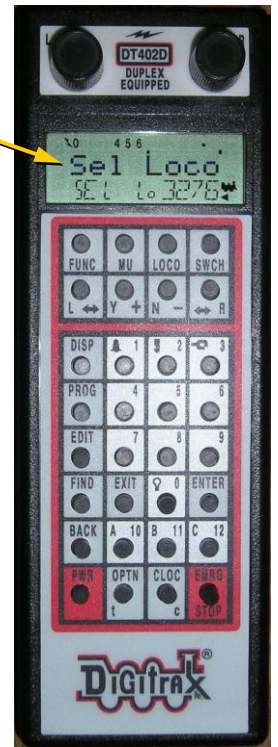
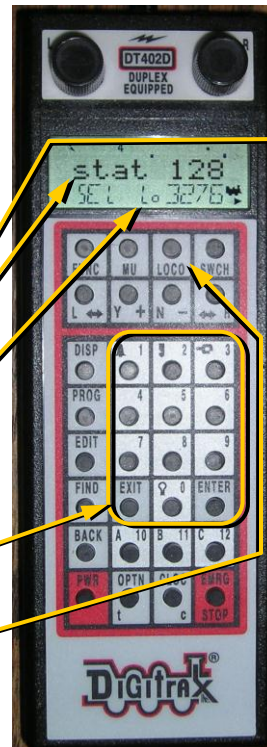
Press Loco button.

Message window displays either stat 128 or Sel Loco.

The Mode Indicator displays flashing Lo.

Enter locomotive ID.

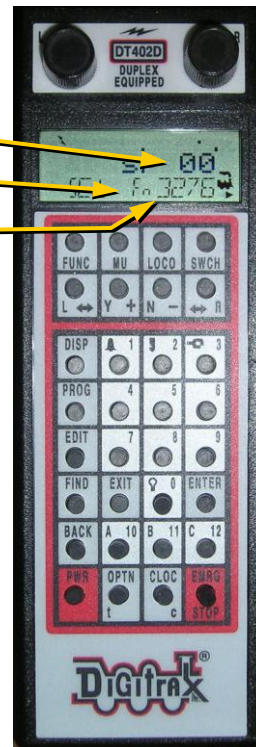
Press Loco button.



Displays shows power setting.

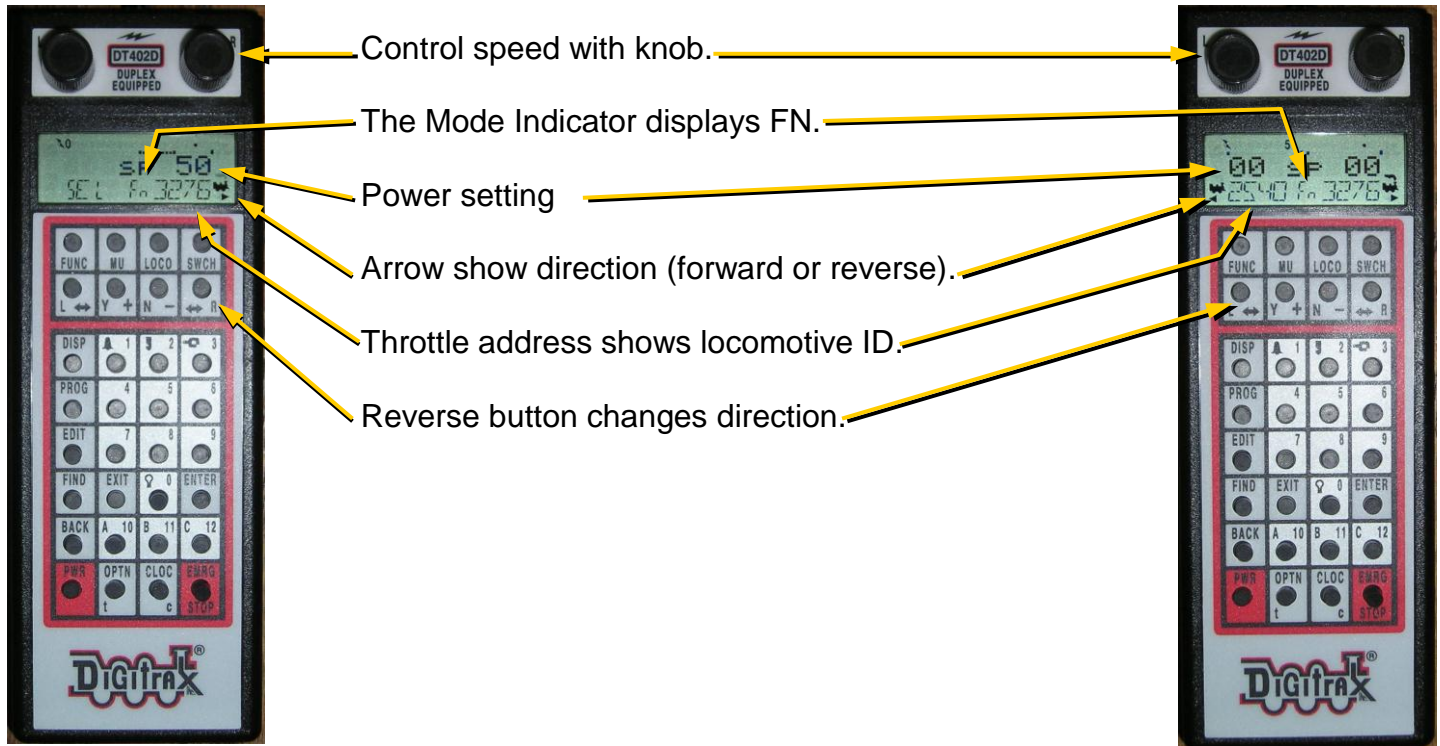
The Mode Indicator displays FN.

Throttle address shows locomotive ID



# Locomotive Operation (DT400/DT400R/DT402D)

Note: this example shows use of right throttle to the left and left throttle to the right.



Numbers indicate which functions are on.  
Example show function 5 on.

Flashing smoke indicates active side.

Toggle functions with numeric pad.

Function 0 is head lights as indicated by light bulb.

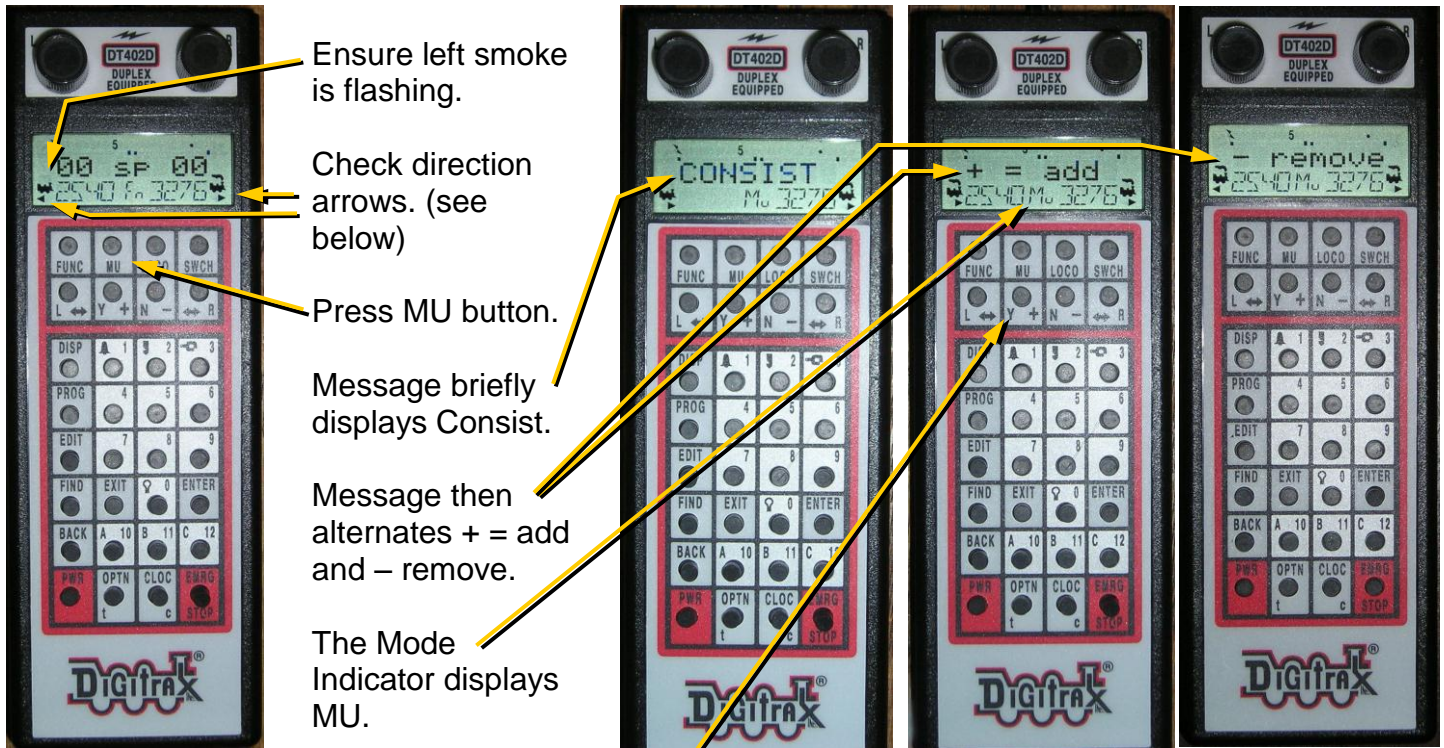
Function 1 for sound decoders is the bell as indicated by bell.

Function 2 for sound decoders is the horn or whistle as indicate by whistle.



## Multiple Unit Consists (DT400/DT400R/DT402D)

Enter the lead locomotive ID on right side and the second locomotive ID on the left side.



Press Y + to add second locomotive to

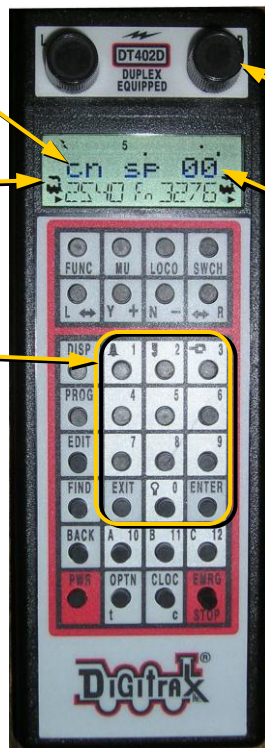
consist

Left speed indicator shows CN.

Control speed for both locomotive with right knob.

Right speed indicator show power setting for both locomotives.

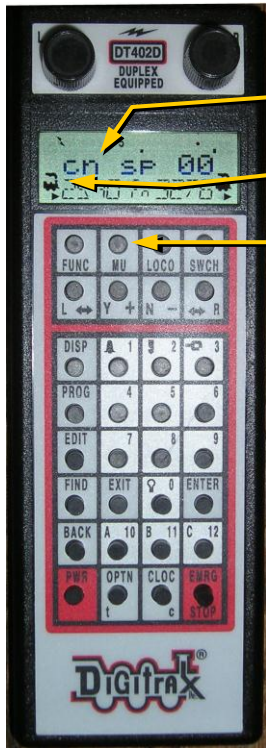
Flashing smoke indicates which locomotive responds to function buttons.



Note: if locomotives are facing the same direction, the left and right direction indicators need to show the same direction. If locomotives are facing opposite directions, the left and right direction indicators need to show opposite directions.

# Clear Loco IDs (DT400/DT400R/DT402D)

If any locomotives are consisted, they should be removed from the consist



Left speed indicator shows CN.

Ensure left smoke is flashing.

Press MU button.

Press N - to remove second locomotive from consist



Ensure smoke is flashing on side to clear locomotive ID.

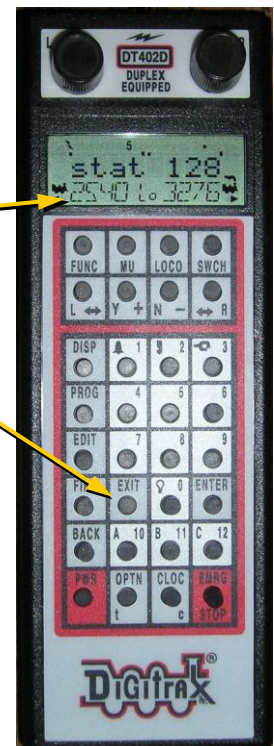
Press LOCO button.

Locomotive ID is flashing.

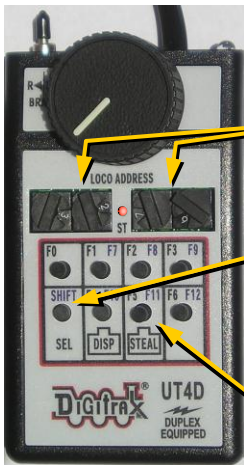
Press EXIT button. This clears the locomotive ID from the command station.

Note that pressing LOCO then DISP clears the locomotive ID from the throttle, but the command station continues to control the locomotive. This allows another throttle can take control of that locomotive by entering the locomotive ID.

Repeat for opposite side.



## Enter Loco ID (UT4D)



Enter the locomotive ID on the rotary address selectors.

Press the SEL button or plug the throttle into the LocoNet.

Check the status light. If it is blinking green the locomotive ID has been acquired.

If taking locomotive control from another throttle, press the STEAL button.



## Locomotive Operation (UT4D)

Control direction with the three position switch:

Left is reverse.

Center is brake (stop)

Right is forward



Control speed with knob.

Fully counterclockwise

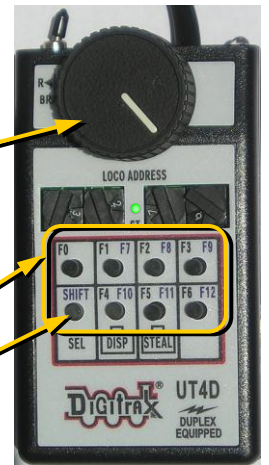
(7 o'clock) is stop

Fully clockwise

(5 o'clock) is full power.

Toggle functions with function pad.

For functions 7-12, press & hold the SHIFT button and press the function key.



## Glossary

CN	Consist	DT400/DT402 indication that loco ID has been added to consist (speed and direction controlled by another loco ID)
D	Duplex	Duplex (two way) radio allows all controls without being plugged into the LocoNet
DISP	Dispatch	DT400/DT402/UT4D button to release control of locomotive
ID	Identifier	A number (0-9983) which identifies a locomotive decoder.
Ir	Infrared	Infrared allows locomotive operation by pointing throttle at infrared receiver.
LOCO	Locomotive	DT400/DT402 button to select locomotive ID
LocoNet		Digitrax communication network
Mode Indications:	Fn Function	Normal locomotive operation functions available on the keypad
	Lo Loco Selection	Locomotive Address Selection Mode
	Mu Multiple Unit	Multiple unit (consist) operation set up and break up
	Pw Power	Turn track power on and off
MU	Multiple Unit	DT400/DT402 button to select multiple unit mode
PWR	Power	DT400/DT402 button to select track power mode
R or Ra	Radio	Simplex (one way) radio allows direction, speed & function without being plugged into LocoNet
SEL	Select	DT400/DT402 indication that no locomotive ID is entered
SEL	Select	UT4D button to select locomotive ID
SP	Speed	DT400/DT402 indication that power setting are displayed
V	Volts	