

# Sierra Central Railroad

## Basic Locomotive Engineer/Yard Hogger Training

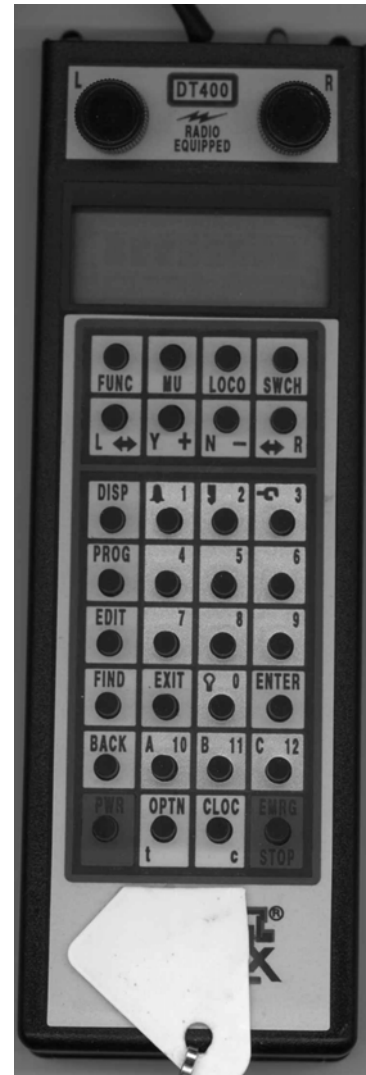
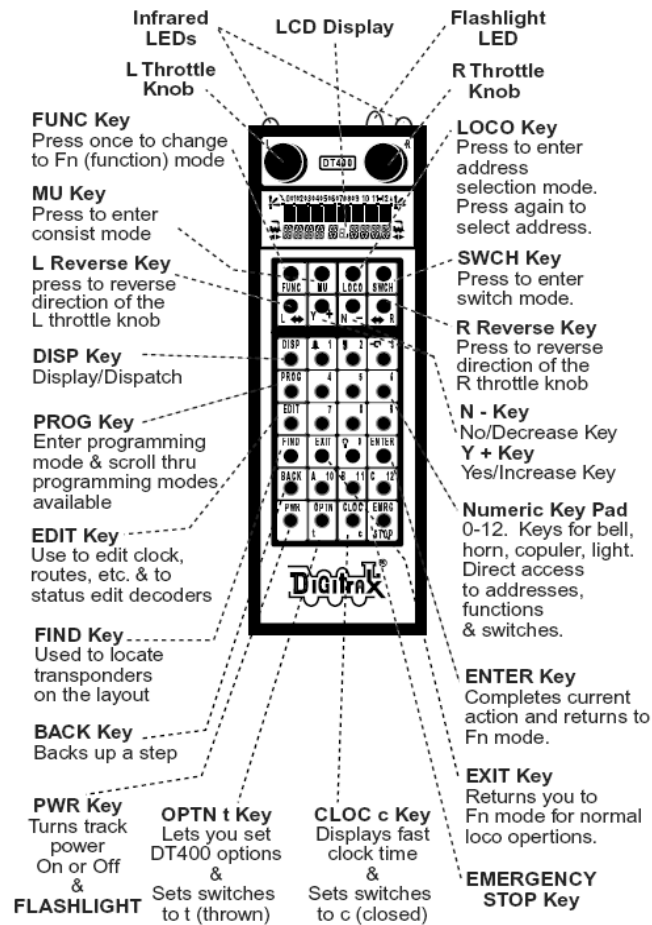


# Training Objectives

- Demonstrate
  - Log on two different engines
  - Log off procedure
  - Change direction
  - Throttle up/down
  - Emergency stop
  - Enable radio mode
- Demonstrate
  - Turn on/off lights
  - Check battery voltage
  - “Steal”
  - Track Power on/off

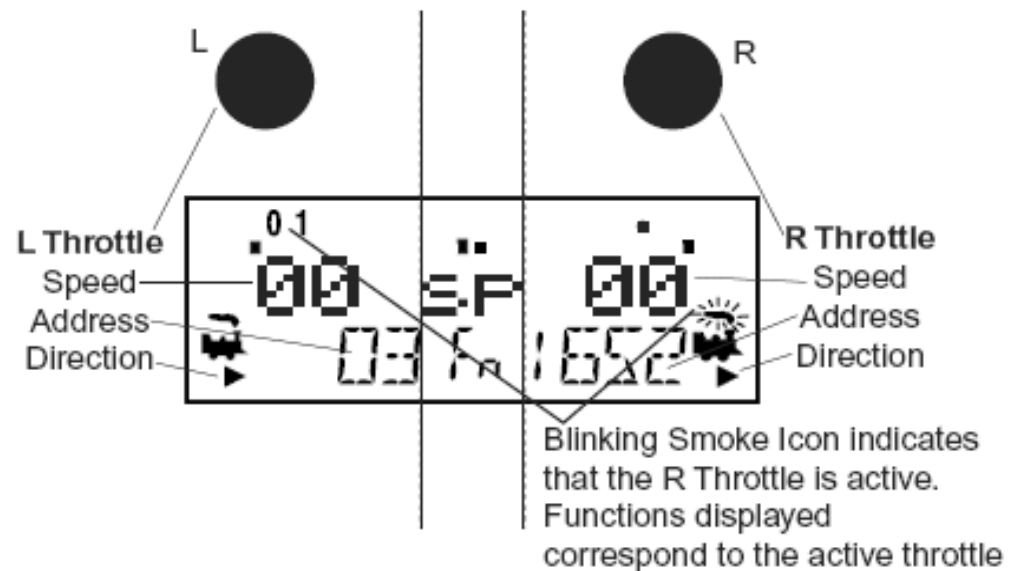
# Throttle (DT-400)

- Know your throttle!



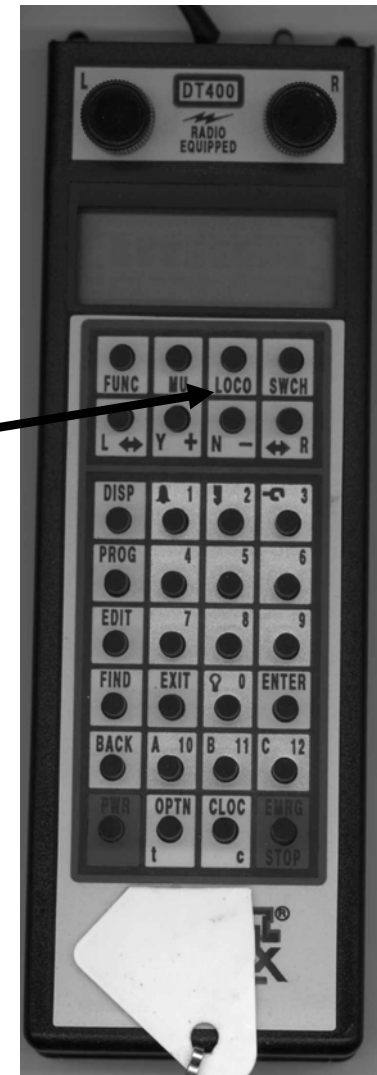
# Two-Throttles in One

- Note relationship of the display to the Left and Right throttle knobs



# Log On

- Select which throttle to use
  - Rotate either knob  $\frac{1}{4}$  turn to make active
  - Note blinking icon
  - Recommend selecting right throttle knob for single engine as a practice
- Press
  - LOCO key
  - Address number
  - LOCO key
- Observe
  - Address in display
  - Direction indicated in display



# Second Throttle Use

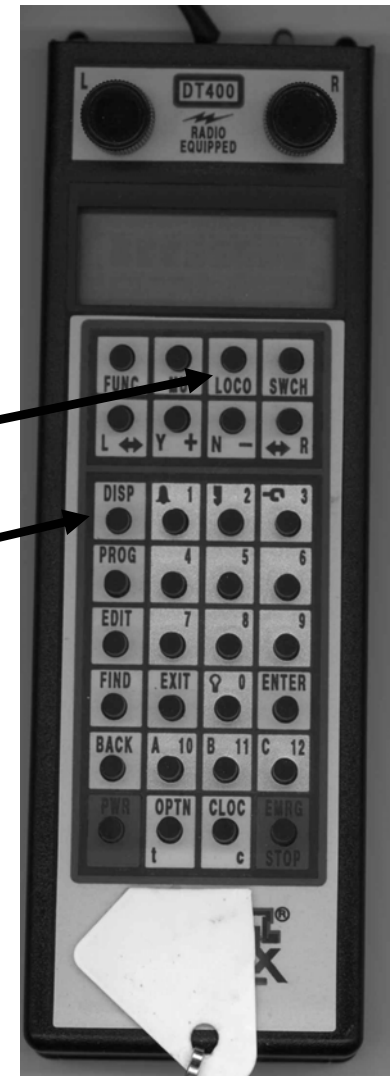
- Run two engines independently
  - Helper service without consisting
    - You will need to concentrate!
  - Run two different trains concurrently
    - Not recommended
- Consisting
  - Lead engine on right throttle knob
  - Log on trailing units to left throttle knob (see advanced throttle training for more info)

# Log Off

- When an engine has completed it's service and is being parked
  - Turn off any lighting functions
  - Log off the address to make room for other engines to run in the DCC system
  - Failure to log off can cause DCC system to not accept additional engines

# Log Off

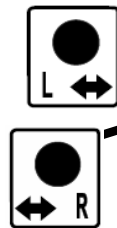
- Press
  - LOCO key
  - DISPATCH key
- Unplug throttle or log on to another engine





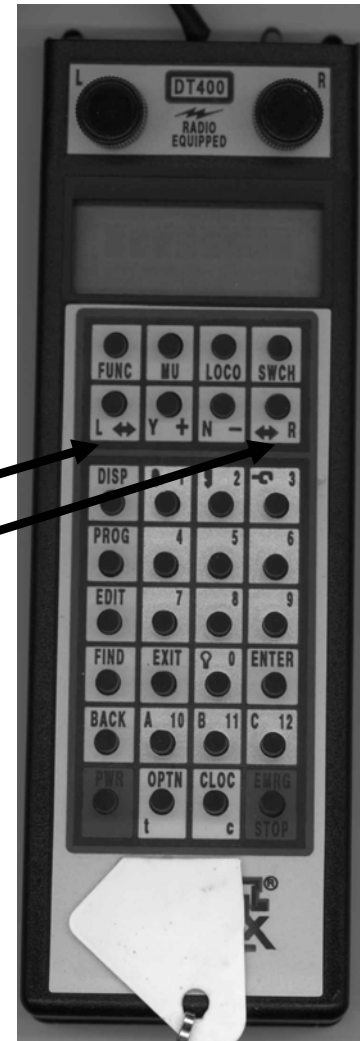


# Change Direction

- Reminder
  - Keep track of which throttle is active
- Change direction
  - Fast double click of throttle knob (or)
  - Press corresponding reverse button for
    - Left throttle (or)
    - Right throttle
- Observe
  - Display shows direction

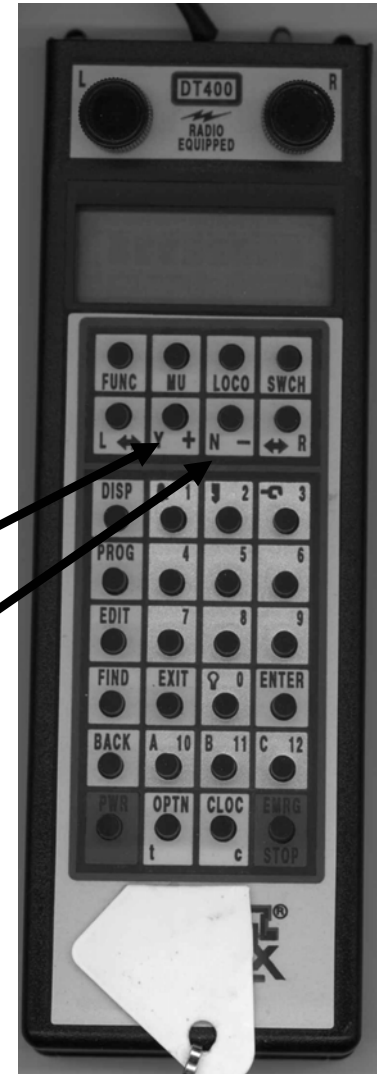


 = Forward Direction  
 = Reverse Direction



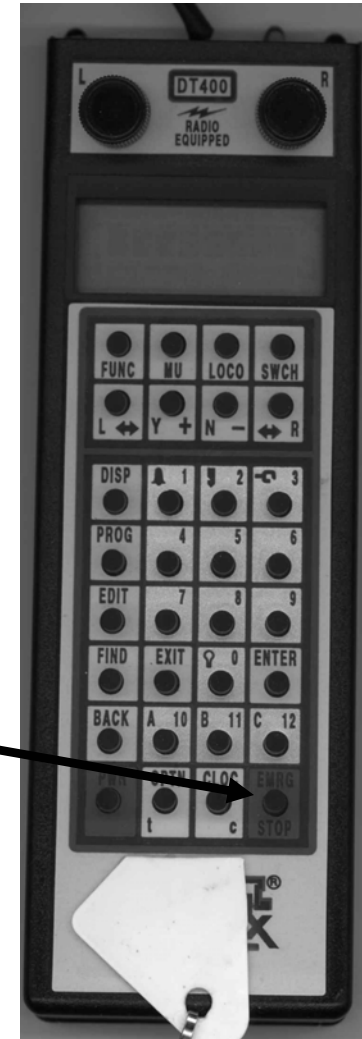
# Speed

- Change speed
  - Turn throttle knob
    - Counterclockwise to decrease
    - Clockwise to increase
    - Don't 'twiddle' the knob
      - Set the speed and let 'er run
  - Use the + and – keys
    - Each press steps up (+) or down (-)



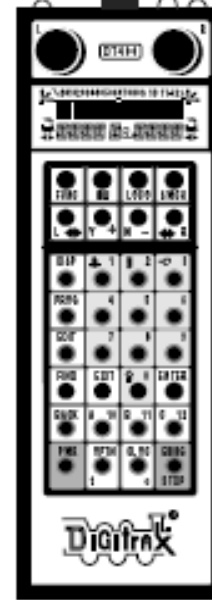
# Stop

- Throttle knob
  - Rotate knob counterclockwise to 0
- Emergency stop
  - Rapidly rotate knob counterclockwise to 0
  - Emergency Stop Button
    - First press stops active throttle address
    - Second press stops address on other throttle



# Radio Mode

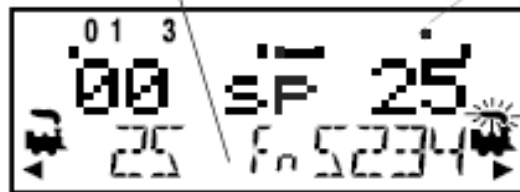
- Start radio operation
  - Must plug into UP-5 panel
  - Observe display
    - rA: \_\_ indicates activation of radio link
  - Unplug and operate your train
- If you lose control while on radio, plug back into a UP-5 panel
- In yards, please plug in and use throttle extension cables



# Lights

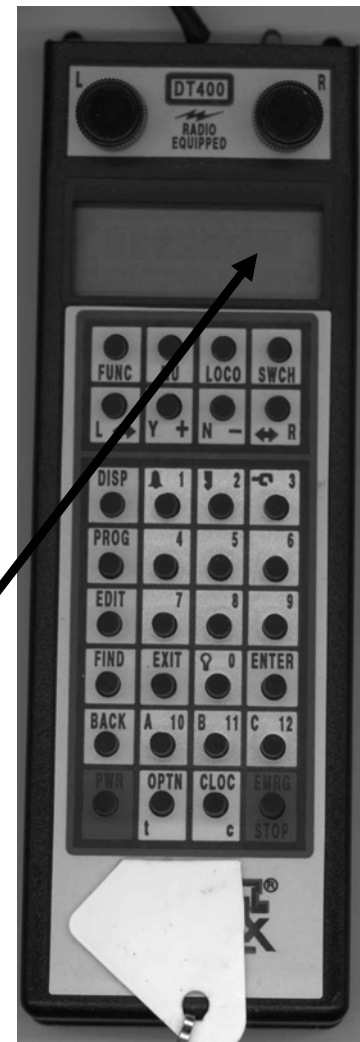
- Use Function (numeric) buttons
  - 0 is usually master on/off for all lights
  - Depends on how decoder was programmed (ask engine owner)
- Observe display for which functions are on

Throttle in normal operations mode indicated by Fn.  
 In Function (Fn) Mode Throttle knobs control Loco's Speed & Direction.  
 Keypad entries control functions. Track Power Indicator ON



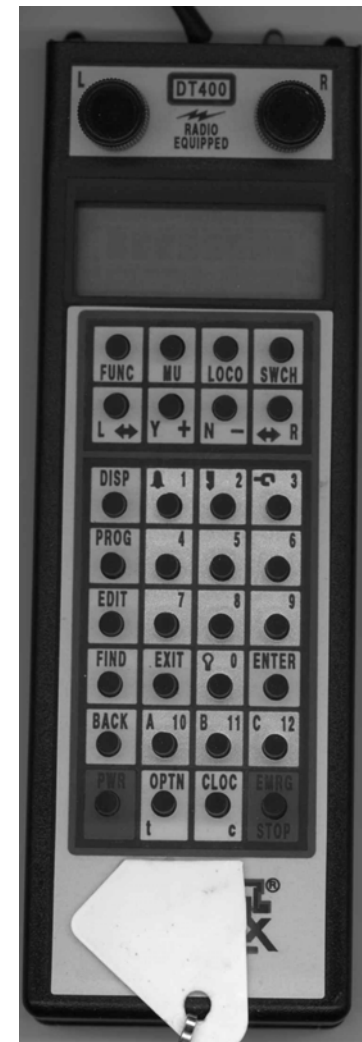
2 digit address 25  
 Selected on the L Throttle  
 Running at 0% speed  
 In reverse.

4 Digit address 5234  
 Selected on the R Throttle  
 Running at 25% speed  
 In the forward direction  
 Functions 0, 1, & 3 on.



# Sound

- Function (numeric) keys
  - 1 is usually bell
  - 2 is usually horn/whistle – note it does not latch
  - 3 is usually coupler clank
  - Check with owner for specifics



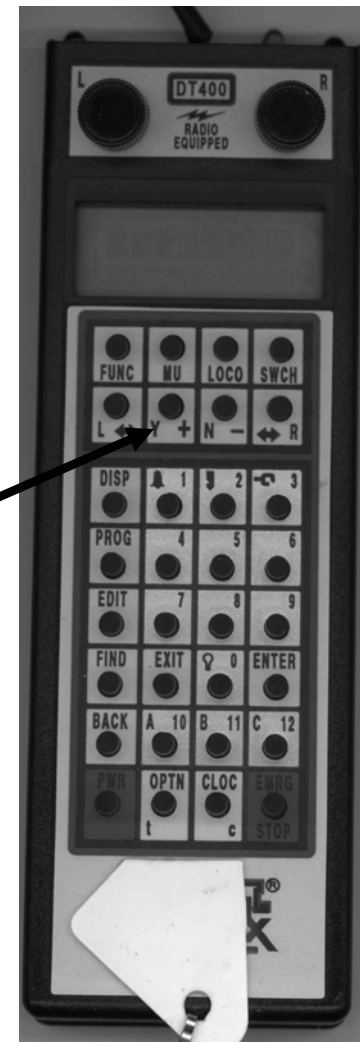
# Battery

- 9 volt battery
  - Use disposable or rechargeable batteries
    - Beware of the 9v rechargeables that are only rated 7.2V (read the fine print!)-don't buy these
  - When you first insert a battery or unplug from a UP-5 panel, the display will briefly show the voltage
  - Replace battery when voltage falls below 7.5



# Steal

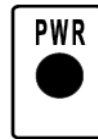
- You will need to acquire an engine address that may already be on another throttle
  - Yard hogger has set up your train for a run on their throttle, now you need to take it over
  - You have a train terminating in your yard and you need to take it over from the road crew
- Use same log-on procedure
  - Display will show STEAL?
  - Press Y button
- Then Log-off the other throttle
  - If you don't – throttles will both have control!





# Track Power

- PWR
  - The power button should be used with caution
    - Turns on/off the entire DCC system
      - Press PWR (observe display)
      - Press + to turn on (or)
      - Press – to turn off



# Exit Button

- If your throttle gets into a state such as
  - Switch control mode
  - Programming mode
- Use the EXIT key to return to normal throttle function

