

## THROTTLE CONTROLS

Function	DT300	DT400	UT1
Track Power	Stop + Y/+ <b>On</b> Stop + N/- <b>Off</b>	PWR then Y/+ <b>On</b> PWR then N/- <b>Off</b>	RUN/STOP + ON RUN/STOP + OFF
Throttle Select	Click throttle or turn ¼ turn	Click throttle or turn ¼ turn	NA – only one throttle
Select Loco address, <b>then</b>	Press SEL key	Press LOCO key	NA
Enter 4 digit address, <b>or</b>	L throttle for hi 2 digits, R throttle for lo 2 digits or select with R only	Same as DT300 or enter 4 digits thru keypad	NA – only through Dispatch/Acquire
Enter 2 digit address <b>then</b>	L throttle to 00 and R throttle for 2 digits (to 127)	L throttle to 00 and R throttle for 2 digits (to 127)	Dial in 2 digits
Make Loco selection	Press SEL key (click throttle?)	Press LOCO key, ENTER, or single click throttle	Press ACQ/DISP key. Green LED – OK Red LED – reverse Strobe LED – match speed No LEDs - unavailable
Recall Loco (R shown, L is similar)	Hold R Throttle, dial R throttle or +/-, then SEL or single click R Throttle	Hold R Throttle, dial R throttle or +/-, then LOCO or single click R Throttle	NA
Steal Loco	Same as Loco SEL but press Y/+ when Steal?=Y shows up	Same as Loco SEL but press Y/+ when Steal?=Y shows up	Only through Dispatch
Release Loco	Speed to 0, Press SEL and wait or press SEL again	Speed to 0, Press LOCO and wait or re-press LOCO	Select Address, Press ACQ/DISP twice
Dispatch Loco (works w/consist also)	Select loco, set speed to 0 (opt), press SEL then press MODE	Press LOCO key, enter address selection, press DISP key.	Press ACQ/DISP + SHIFT
Acquire Dispatched Loco	NA	NA	Dial in 99 and press ACQ/DISP
Speed & Direction	Speed – throttle or Y/+ and N/- Direction – Double click throttle or use L/t & c/R for left or right throttle change	Speed – throttle or Y/+ and N/- Direction – Double click throttle or use L/t & c/R for left or right throttle change	Speed – throttle Direction – toggle to left for rev, right for forward
Emergency Stop (Local)	Hold STOP 1 sec – stops both locos. STOP + Y/+ stops all locos – pwr on	EMRG STOP stops active, again stops other loco. PWR + N/- stops all pwr off	Hold RUN/STOP
Resume Emergency Stop	Turn throttle, or hold STOP (1 sec) if all locos stopped	Turn throttle	Press RUN/STOP or move throttle to 0 speed
Function Control	Select Throttle, press FN/F0 key, then F key 0 – 4. For higher keys, press and hold FN key then key	Select Throttle, press FUNC if not in Fn mode, toggle any function key	Press F0 – F2. For hi functions, hold SHIFT key while pressing F3 – F5

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Consisting (MU)	Select top loco number in R throttle, address to add in L. Press MODE twice. Y/+ to add, N/- to remove. R throttle runs consist, or release or dispatch consist	Select top loco number in R throttle, address to add in L. Press MU key. Y/+ to add, N/- to remove. R throttle runs consist, or release or dispatch consist	Note: Use ACQ/DISP with loco 99 to pick up a dispatched consist.
Removing from Consist	Select loc to remove in L throttle, MODE twice, then N/-. Left throttle now controls released loco.	Select loc to remove in L throttle, press MU key, then N/-. Left throttle now controls released loco.	Note: Use ACQ/DISP + SHIFT to dispatch the consist.
Programming Decoder Address – 2 digit	Loco on Prog Track – Press STOP + FN/F0. Ensure Pg mode (FN/F0 key). Use L throttle to obtain Ad2=, then dial 2 digit address w/R throttle, then press SEL Wait. Exit by pressing STOP +FN/F0	Loco on Prog Track – Press PROG. Ensure Pg mode (PROG key). Use L throttle to obtain Ad2=, then dial 2 digit address w/R throttle or enter add with keypad, then press ENTER. Exit by pressing EXIT.	NA
Programming Decoder Address – 4 digit	Loco on Prog Track – Press STOP + FN/F0. Ensure Pg mode. Use L throttle to obtain Ad2=, Press R throttle to obtain Ad4==, then dial 4 digit address w/L & R throttle, then press SEL Press Y/+ when prompted. Exit by pressing STOP +FN/F0	Loco on Prog Track – Press PROG. Ensure Pg mode (PROG key). Use L throttle to obtain Ad2=, Press R throttle to obtain Ad4==, then dial 4 digit address w/L & R throttle, or use keypad, then press ENTER. Press Y/+ when prompted. Exit by pressing EXIT.	NA
Programming other CV values	Enter Program mode as above. L throttle selects CV address, R throttle selects value – press R throttle to toggle between Hex and Decimal. Press SEL to write value. Repeat for other CV addresses. Exit with STOP + FN/F0.	Enter Program mode as above. L throttle selects CV address, R throttle selects value – press R throttle to toggle between Hex and Decimal. Address or value can be entered by keypad also. Press ENTER to write value. Repeat for other CV addresses. Exit by pressing EXIT.	NA
Operations Mode Programming	First select the loco. Then enter Program mode as above, but use FN/F0 to select Po (ops mode). Follow steps for other CV values above.	First select the loco. Then enter Program mode as above, but use PROG to select Po (ops mode). Follow steps for other CV values above.	NA

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Function	DT300	DT400	UT1
Read Back CV Values	Loco on Prog track. Enter Program mode as in other CV values. Select CV address w/L Throttle and press MODE. Change by R throttle changes and press SEL. STOP + FN/F0 returns to Lo mode.	Loco on Prog track. Enter Program mode as in other CV values. Select CV address w/L Throttle (or enter on keypad) and press DISP. Change by R throttle changes (or keypad) and press ENTER. EXIT returns to Fn mode.	NA
Read Back in Ops Mode	Same as above, but decoder must be transponding.	Same as above, but decoder must be transponding.	NA
Status Edit (Command Station control)	Press SEL key, select the loco, then press FN/F0 (shows SE). Use either throttle or Y/+ or N/- to change status. Then press SEL key.	Press LOCO key and select the loco – throttles or keypad. Press EDIT key. Use throttle or EDIT key to cycle thru status codes. Then press ENTER	NA
Fast Clock	(Plug into LocoNet). Press MODE key to go to Sw mode. Then press FN/F0 to Ec mode. Use throttles to change hrs (L) or mins (R). Press FN/F0 to set time. Er will allow rate change. 0 stops the clock. Press FN/F0 for Alarm. Set alarm and press FN/F0 to exit	(Plug into LocoNet). Press EDIT key and scroll (EDIT) to go to Ec mode. Use throttles to change hrs (L) or mins (R). Press EDIT to set time. Er will allow rate change. 0 stops the clock. Press EDIT for Alarm. Set alarm and press EDIT to exit	NA
Display Fast Clock	DT300 Op#1 switch bit1 (value =2) on. Sets default fast clock on display.	CLOC is a toggle for fast clock.	NA
Change a switch (Throw diverges, Close is straight line)	Press MODE key to Sw. Throttles or Y/+ and N/- keys change address. Then L/t or R/c for throw or close switch. Exit with MODE key.	Press SWCH key. Throttles still control loco. Keypad selects switch number, OPTN and CLOC throws or closes. Exit with EXIT or FUNC key.	RUN/STOP + ACQ to sw mode. Select address with rotary switches. ACQ changes “t” and “c”. Rot. back to loco #. RUN/STOP + ACQ exits.