

## APPENDIX

# STATION STOP OPERATION

# E

The following information explains how to use the Proto-Sound 2.0 system in command mode when running trains equipped with Station Stop Proto-Effects. Appropriate models include Subway Cars, PCC car and Trolley cars.

### Automatic Operation

The first step in running your model in Auto Mode is to “teach” it the stops. For this the MLM, LST, SAV, OAB, and SLP softkeys are used.

For Auto Mode behavior, specific station stops and distances between them are programmed and saved. The process for this, Learn Mode, is outlined in the following steps.

1. Set the model on the rails and apply power
2. Add the engine to the DCS handheld if isn't already added
3. Press Start-Up on your DCS Remote and the engine will start-up
4. Press the MTC softkey to enter the Trolley Menu
5. Press MLM to enter “learn” mode. The engine will announce, “Learn Mode”
6. Drive the engine to the track location where the first stop will be stored.  
**Note** – there is no SMPH displayed but scrolling the thumbwheel will result in the engine moving **HINT:** It's easiest if you drive the trolley to the first stop and then enter Learn Mode by pressing the MTC then the MLM softkeys
7. Press the LST softkey until the station you desire is announced. Once you hear the station you want press the SAV softkey and the model will announce, “Saved”
8. Scroll the thumbwheel up so the trolley is moving and drive it to the next position on the track you want it to stop.
9. Repeat steps 7 and 8 for all the stops you wish to teach the trolley.
10. Now you want to decide whether you want the engine to run as an Out and Back or as a Loop. For Out and Back proceed to step 11. If you want to save this as a loop proceed to step 12.

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### **Automatic Operation**

11. To save your stops as an Out and Back ensure the engine is sitting at the last station you saved, then either press the SAV softkey again or press the OAB softkey. When you press either one the engine will announce, “Save Complete” and the engine sounds will return. You can now put the engine into Auto Mode. Proceed to step 13
12. To save your stops as a Loop drive the engine to the EXACT spot on the tracks where you saved your first station, press the LST softkey until you hear the first station announcement you saved, then press either the SAV softkey or the LOP softkey. The engine will announce “Save Complete” and the engine sounds will return. Proceed to Step 13 to set the engine in Auto Mode
13. To enable Auto mode drive the engine to the EXACT spot on the tracks you saved your first station and press the MTC softkey. Then press the FAS softkey and the engine will announce “Auto Mode”.
14. Use the thumbwheel on the DCS handheld to get the engine moving at your desired speed and sit back and watch the engine run and stop at the stations you programmed

You can toggle in and out of Auto Mode via the FAS softkey. NOTE – If you toggle back into Auto mode from Manual mode you will have to drive the engine to the first station saved during Learn mode and ensure the engine is in the correct directional state (Forward or Reverse).

While operating in Auto Mode, you can toggle between “all stops” and “random stops” via the FAR softkey. The DCS Handheld will display either “All Stops Selected” or “Random Stops Selected”. This can be done while the engine is moving.

### **Manual Operation**

In Manual Mode you actually “drive” the engine and you can initiate a stop through the following method:

1. Press the MTC softkey to enter the Trolley Menu
2. 1.Press the MMM softkey to enter Manual Mode, you will see two new softkeys appear, FSS and ARM
3. Get the engine moving by scrolling the DCS handheld thumbwheel

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### Manual Operation

4. Press the FSS softkey to announce the next stop. Every press of the FSS softkey will play the next available station announcement. Once the desired stop announcement has been made, the system is armed and will play the sound sequence for the selected stop the next time you bring the engine to 0 sMPH. When the engine departs that station, by scrolling the thumbwheel up or down to change the speed, the announcement for the next station will be made automatically.
5. If you wish the engine to stop at this station press the ARM softkey. If you do not wish to stop at this station then press the FSS softkey until the appropriate station announcement is called.

Once a specific stop is selected, subsequent stop selections override the previous one. Therefore, you can select a specific stop and then change this request simply by selecting a different stop by pressing the FSS softkey.

Once a stop sequence is saved as a loop, the user can toggle between OAB and loop behavior via the FOL softkey.

### Station Stop Chart

Command	Acronym	Description
Specific Stop(s)	FSS	One of "n" number of stops that can be specifically selected by the user. These commands are also used in learn mode to program stops.
Auto Mode	FAS	Toggles trolley between auto and manual mode
Learn Mode	MLM	Initiates learn mode
Save OAB	SOB	Saves programmed stop sequence as OAB
Save Loop	SLP	Saves programmed stop sequence as loop.
OAB/Loop	FOL	Toggles behavior between OAB and loop in auto mode
All/Random	FAR	Toggles behavior between OAB and loop in auto mode
Manual Mode	MMM	Enter Manual Mode
Arm Next Stop	ARM	Arms the next announced stop when departing the current stop
Enter Trolley Mode	MTC	Activates the trolley menu screens