<div align="center">**Revolution Train Engineer Cre57000**</div>

<div align="center">**TEMPORARY ADDENDUM TO THE MANUAL FOR THE REVOLUTION**</div>

We have made some last minute additions to the Revolution and we're working on getting them into the actual manual. In the meantime…………

1] MUSIC AND KEY CLICKS SOUND

We have music that alerts you that the transmitter is now turned on, but if you wish, there is now an option to turn the music and key sound off. To turn the sound ON or OFF go to System Configure and scroll down to [d] Key Sound.

SYSTEM CONFIGURE:

d] KEY SOUND: [ON] Press the left arrow to turn the sound OFF.

5. SYSTEM CONFIGURE	
a. POWER OFF	[10 min]
b. BRIGHTNESS	[100%]
c. CONTRAST	[50%]
d. KEY SOUND	[ON]
e. MULTI TX	[OFF]

5. SYSTEM CONFIGURE	
a. POWER OFF	[10 min]
b. BRIGHTNESS	[100%]
c. CONTRAST	[50%]
d. KEY SOUND	[OFF]
e. MULTI TX	[OFF]

2] MULTI TX USAGE

More than one user may control the same loco from different transmitters. The last person to issue a command is in control of the loco and the two-way communication is only done with this transmitter. By issuing a command after selecting the same locomotive by pressing any button you take over the control of the loco; so verbal communication is necessary to determine who will be running the locomotive at any one time. When programming the locomotive under **ASSIGN FUNCTIONS** all of the characteristic settings must be the same. Both transmitters need to program in the Link address, Name, Road number and all of the other characteristics. Both transmitters must have the same **RF- CHANNEL and GROUP ID** numbers. Go to RADIO CONFIGURE to make sure the RF- Channel and Group ID numbers is the same in both transmitters. To change the numbers look up in the manual on how to change RF and Group ID numbers.

6. RADIO CONFIGURE	
a. RF -CHANNEL	[CH:16]
b. GROUP ID	[0947]

When using more than one transmitter to run a single locomotive, the MULTI TX function must be turned ON. Go to **SYSTEM CONFIGURE** and scroll down to [e] MULTI TX.

e] MULTI TX: Press the right arrow to turn the multi TX ON.

```
5. SYSTEM CONFIGURE
a. POWER OFF    [10 min]
b. BRIGHTNESS   [100%]
c. CONTRAST     [50%]
d. KEY SOUND    [ON]
e. MULTI TX     [OFF]
```
```
5. SYSTEM CONFIGURE
a. POWER OFF    [10 min]
b. BRIGHTNESS   [100%]
c. CONTRAST     [50%]
d. KEY SOUND    [ON]
e. MULTI TX     [ON]
```

Note: When using only one transmitter turn the MU function [OFF], this will give you better control when running your locomotives.

LINK ADDRESS

You can now enter the link address numbers by pressing the number on the keypad or press the right or left arrow.
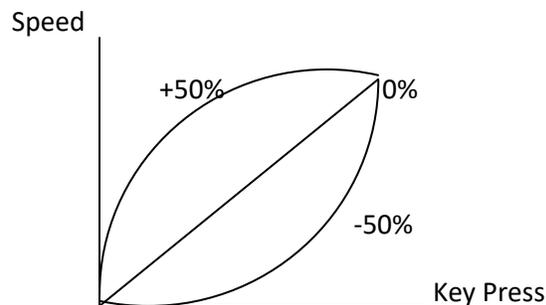
SPEED STEPS

We have added the ability to set the speed steps for single unit cabs individually , but have locked it out of our multiple units cab consists. Speed Steps allow for a refinement of speed control as a response to the depression of the speed keys either up or down. This attribute is only allowed in the SU mode.

SPEED CURVE

This is an exponential curve to allow for greater control on your locomotives. You can set the curve up or down from 0 to 50% plus or minus. This means you can have a less sensitive start and then speed it up faster the longer you depress the right or left arrow key. This totally selectable by you and experimentation will bring you the desired result.

To change link address, speed steps and speed curve go to assign functions.

Speed

+50%   0%

-50%

Key Press

ASSIGN FUNCTIONS:

```
1. ASSIGN FUNCTIONS
a. LINK ADDR     [00]
b. RX TYPE   [ONBOARD]
c. NAME          [E-8]
d. ROAD NO      [235]
e. MOMENTUM   [10%]
```

```
1. ASSIGN FUNCTIONS
I. HD LIGHT       [ON]
J. TOP SPEED     [100%]
K. START SPEED   [10%]
L. SPEED STEPS    [3]
M. SPEED CURVE  [+10]
```

QUICK MENU LIST:

MU SPEED OFFSET: We added an OFFSET variable to our M.U., Cabs only to allow for an individual setting of voltage plus or minus 100%. This allows for the speed differences between disparate locomotives MUed, caused by weight of the train, size of the wheels, size of the motor and the motor winding. The MU speed offset only works for cabs within multiple unit consists. To access this function press the # key. You can change any locomotive in any consist chosen by the number of the fictional lead cab.

```
QUICK MENU LIST
MU SPEED OFFSET
AUX FUNCTIONS
A->Z NAME SEARCH
ABOUT SYSTEM
```

IMPORTANT PLEASE MAKE SURE THE LINK NUMBERS ARE DIFFERENT FOR EACH LOCOMOTIVE CAB WITHIN A CONSIST TO ALLOW FOR INDEPENDENT CONSIST CAB OFFSET SETTINGS.

Press the Stop enter button to access the MU SDP OFFSET

Press the right or left arrow to adjust the speed of the locomotive.

Plus [+1] to [+100] will give you a faster speed

Zero [0] No change

Minus [-1] to [-100] will give you a slower speed

Press the stop enter button and it will take you back to zero [0]

```
MU SPD OFFSET/CAB 1
MU1 E-8          -2
MU2 DASH 9      +3
MU3 PACIFIC     +8
MU4 SD45        +15
MU5 FA1          -6
```

ABOUT SYSTEM: Press and hold the stop enter button to view the version and INFO of the transmitter and receiver. The current version for the transmitter and receiver is 'TX v2.0.4 and onboard: v2.0.3. We intend to update these versions annually only and the system needs to come back to Aristo-Craft/Crest for the update.

```
ABOUT SYSTEM
FRQ 2.4GHZ/US
TX V2.0.4
ONBOARD: V2.0.3
```

FOR THE RECEIVER:

We've added a new capacitor board to help powered locomotives over dirty tracks spots. To install this item, take the male plug on the capacitor board and plug it into the female plug on the receiver board. The female plug is located at the bottom side of the receiver.

We also now have a non plug 'n play option board to ease installation in non-Aristo-Craft locomotives.