

Programming the RsEK Generator Crank Time

Background

This Technical Bulletin (TB) provides instructions for reprogramming the MEP-802A Remote-start Enabling Kit (RsEK) Generator Crank Time parameter from 5 seconds to 10 seconds.

Please read and understand ALL of the instructions and figures in this TB before starting.

Protocol

Remove the RsEK from the mounting bracket. Steps 1–4 are required only if the RsEK is installed on the generator.

1. Remove the negative cable from the generator starter battery.
2. Place the RsEK Mode Switch in the OFF (middle) position (Figure 1A).
3. Unplug the J100 wiring harness (Figure 1B) to prevent the generator from starting.
4. Remove the four (4) faceplate bolts (Figure 1, circles) to gain access to the backside of the RsEK.

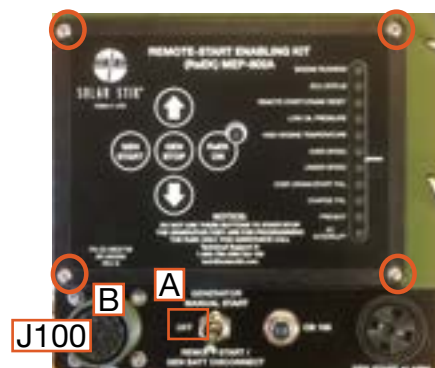


Figure 1. RsEK Faceplate

5. **Toggle DIP switch #1 to the ON position (Figure 2).** This is required for the RsEK to enter setup mode.
6. **Connect a DC power source:** Remove CD101-1 (positive power wire in position 1) and CD101-2 (negative power wire in position 2) (Figure 3A). Connect the leads of a small DC power supply to these two (2) terminals. Orange is positive and blue is negative in Figure 3B. The DC power supply should be turned off while connecting the leads to the RsEK. Turn the DC power supply settings to zero (0) for voltage and current prior to turning on the unit. The rated power input range for the RsEK is 9–35 VDC. Do not exceed 35 VDC. The RsEK will draw 20–40 mA at 12 volts.

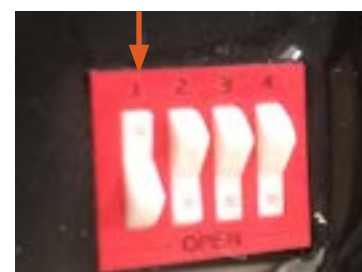


Figure 2. Turn on DIP switch 1

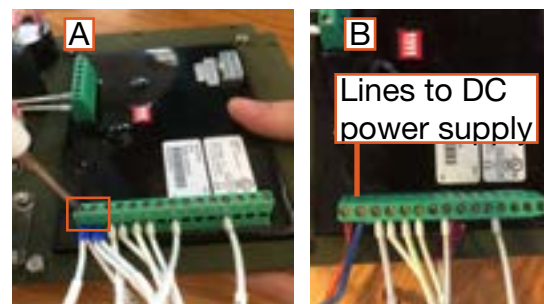


Figure 3. Connecting an external DC power supply

Note: There are many acceptable methods to apply DC power to the RsEK. If a DC power supply like the one shown in Figure 4 is unavailable, any other DC power source that is at least 9 volts and not more than 35 volts will work (see Figure 5).

7. **SETUP MODE:** Turn on the DC power supply and adjust the voltage setting to ~12 V. The green LED next to the “RsEK ON” button will blink to indicate that it is in SETUP MODE. The #6 LED in Bank 1 will be illuminated (no LED illuminated in Bank 2) indicating that the RsEK is on parameter 1 “Engine Speed Source” and the value is set to “Magnetic Pickup”, the default value (see Figure 4 and Figure 6).



Figure 4. Powering the RsEK with a DC power supply



Figure 5. Using a 9-volt battery as an external DC power supply

8. **Parameter Selection:** Press the **GEN START** button two (2) times to get to the “Crank Timer” parameter. LEDs 5 and 6 in Bank 1 will be illuminated (Figure 6). Pressing the “GEN START” button steps through the entire list of 59 parameters. The pattern of illuminated LEDs in Bank 1 indicates the selected parameter. The pattern/parameter changes each time the “GEN START” button is pressed. **Note:** If you pass a desired parameter or value, step the value back by pressing the down arrow button.

| Parameter | LED Bank 1 | Value (*= default) | LED Bank 2 |
|-----------------------|------------|---|------------|
| 1 Engine Speed Source | ○○○○●● | Magnetic Pickup* Generator AC J1939 (ECU) | ○○○○●● |
| 2 Crank Attempts | ○○○○●● | 3* 5 10 Continuous | ○○○○●● |
| 3 Crank Timer | ○○○○●● | 5 Sec 10 Sec 15 Sec* 20 Sec 25 Sec | ○○○○●● |

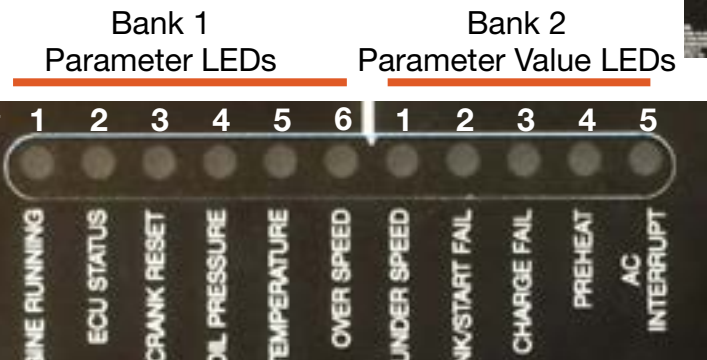


Figure 6. LED correspondence to parameters and parameter values

9. **Change Parameter Value:** The RsEK Crank Timer was programmed for 5 seconds with no LEDs illuminated in Bank 2. **Press the GEN STOP button one (1) time to get to 10 seconds. Bank 2 LED #5 will blink.** Pressing the “GEN STOP” button steps through all the available values for each parameter. The pattern of illuminated LEDs in Bank 2 indicates the selected value. The pattern/value changes each time the GEN STOP button is pushed. **Note:** Step a value back by pressing the down arrow button.



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10. **Save Changes: Press the “RsEK ON” button to store the displayed value of 10 seconds. Bank 2 LED # 5 illuminates.** The new value is now saved.
11. Return DIP switch #1 to the Normal Operating Position (OPEN) and turn off DC power.
12. Reconnect the CD101-1 and CD101-2 harness wires.
13. Reinstall the RsEK into the bracket.
14. Restore DC power and check functionality.

