

Advanced Technical Information

All
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Binder – 2 – Engine-Electric

Use of Deutronic 90A Power Supply with 12 Volt Lithium-Ion Batteries WE 1391 (VAS 5908)

Vehicle Type: **All**

Model Year: **All**

Information: The Deutronic 90A power supply is designed to automatically sense both the presence and condition of a battery and function accordingly. As supplied, the charging parameters are factory set for flooded (wet cell) or AGM lead-acid batteries and front control panel are locked.

Unless the charging parameters are modified, the power supply is NOT compatible with the optional 12 Volt Lithium-Ion Motorsport battery or the 12 Volt Lithium-Ion battery in a 918 Spyder. Use without modifying the charging parameters will cause the control module within the 12 Volt battery to automatically open an internal contactor to disconnect and protect the cells. Permanent battery cell damage may eventually result if the power supply remains connected without modification.

The following instructions clarify and augment those found in the document “918 WM 9X00IN Battery Trickle Charging”. Do not modify any other functional parameters other than those specified in these instructions. The functional parameters must be restored to the original factory values in order for the unit to function properly with flooded (wet cell) or AGM lead-acid batteries.

Procedure: Unlocking and settings for 12 Volt Lithium Ion battery:

1. Select “MENU” using the [▲] and [▼] buttons then press [ENTER].
2. When “CODE” appears on the display, press [ENTER] it begins to flash
3. Set “CODE” to “6161” using the [▲] and [▼] buttons then press [ENTER].
4. Select “CHARGEMENU” using the [▲] and [▼] buttons then press [ENTER].
5. Alter the charging characteristics as follows per Table 1:
 - a. Select characteristic” using the [▲] and [▼] buttons and press [ENTER].
 - b. When it begins to blink, change value using the [▲] and [▼] buttons and press [ENTER].
 - c. Repeat until all value are changed

 **Note:** The actual set value of Qmax will be vary between 5984Ah and 6010Ah .

Procedure:

CHARGE MENU	
U	13.8V
Utri	13.5V
Umin	5.0V
Imax	54.0A
Itri	4.0A
Ire	2.0A
Qmax	6000A
Tmin	1m
Tmax	97.0h
FEATURES	
BACK	

Table 1

Unlocking and settings for 12 Volt Lithium Ion battery (Continued):

6. Select "BACK" using the [▲] and [▼] buttons then press [ENTER].
7. Select "AUTOMODE" using the [▲] and [▼] buttons then press [ENTER].
8. Switch off the unit, wait 1 minute and then switch on the unit (Power Reset).

Unlocking and settings for use with a flooded (wet cell) or AGM Lead-Acid battery:

1. Select "MENU" using the [▲] and [▼] buttons then press [ENTER].
2. When "CODE" appears on the display, press [ENTER] and it begins to flash
3. Set the "CODE" to "6161" using the [▲] and [▼] buttons then press [ENTER].
4. Select "CHARGEMENU" using the [▲] and [▼] buttons then press [ENTER].
5. Alter the charging characteristics as follows per Table 2:
 - a. Select characteristic" using the [▲] and [▼] buttons and press [ENTER] (begins to blink) .
 - b. When the value begins to blink, change value using the [▲] and [▼] buttons and press [ENTER].
 - c. Repeat until all value are changed.

Procedure:

CHARGE MENU	
U	14.4V
Utri	13.8V
Umin	8.0V
I _{max}	105.0A
I _{tri}	2.5A
I _{re}	2.5A
Q _{max}	250A
T _{min}	15m
T _{max}	5.0h
FEATURES	
BACK	

Table 2

6. Select "BACK" using the [▲] and [▼] buttons then press [ENTER].
7. Select "AUTOMODE" using the [▲] and [▼] buttons then press [ENTER].
8. Switch off the unit, wait 1 minute and then switch on the unit (Power Reset).

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