

# How To Use The New OptiMate Chargers/Tester/Maintainer

## The New OptiMate Charger/Tester/Maintainers

- Revive low voltage battery safely from 1 +V
- Rebalance Cells for optimal performance
- Tests the battery State of Health (SOH)
- Has "Maintenance Charger Capability" where they test the voltage every 30 minutes and will only charge if needed
- They are safe to leave on for prolonged periods
- Reduces risk of overcharging while prolonging life of battery



The New TM339 12V and TM661 16/12V

### Step 1:

- Plug in Charger, select 12V/16V, connect charger
- If reverse polarity flashes, you have the leads backwards (red = danger = positive)

### Step 2-3:

- Any flashing lights means your battery was deeply discharged, Step 8 will be a 12-hour test cycle
- Hold black button for 3 seconds, lights will turn solid and the process will continue
- If no flashing lights, GOOD – it will carry on

### Step 4-6:

- This light will come on if the battery was deeply discharged, it will run the cells through a BMS system before beginning the charge process
- If the cells are damaged beyond repair, the top red light will flash

### Step 7:

- The battery was discharged to a normal state, charging will begin

### Step 8:

- Charging has completed to 16V, cells have been rebalanced and optimized
- Once charged, the testing cycle will begin, which can take anywhere from 30 minutes to 12 hours depending on how the battery presented itself in Step 2,3

### Step 9:

- After the testing period, it will show, red, yellow or green indicating SOH
- Once it shows green you may disconnect and put battery and charger away OR leave on the charger for an extended period
- It will read the voltage every 30 minutes and charge accordingly, only if needed

### Tune Mode:

- Delivers a constant safe voltage to power vehicle during diagnostics or tuning sessions