

Nivel THUNDERBULL Charger Specification Sheet:



Part number 20526-20525-20527-3618

36 Volt Charger:

**Ferro-Resonant Transformer 120 Volts AC Input With 36 Volt DC Output.
Output DC Rating Is 20 Amps @ Start Rate
AC Input Is 120 VAC 60Hz And Uses A 20 Amp Dedicated Line Fuse (Breaker)
AC Cord Is A Three Wire Conductor With Ground Wire
DC Cord Is A Two Wire PC Board Activation Circuit
Charger Designed To Charge DC Battery Pack Rated At 36 VDC 180~220 AH**

**Measurements = 8 1/8" H X 9 3/4" L X 8 3/4" W
Weight = 28 Pounds**

Part Number 20526-20525-20527-3618:

**Ferro-Resonant Transformer 120 Volts AC Input With 36 Volts DC Output.
Output DC Rating Is 20 Amps @ Start Rate
Uses A 20 Amp Dedicated Line Fuse (Breaker) Customers Responsibility
AC Cord Is A Three Wire Conductor With Ground Wire
DC Cord With Multiple Configurations Based On Part Number And Application
Charger Designed To Charge DC Battery Pack Rated At 36 VDC 180~220 AH**

**This charger is designed to work with existing 36 Volt Battery System.
The PC Board Starts and Ends the charge process.**

**Charge characteristics are controlled by battery pack voltage in relationship to
battery charger transformer curve. The PC Board monitors this curve for finish
rate and shut off.**



Caution: The charging process creates hydrogen gas which is explosive. Use the charging system in a well ventilated area. Make sure battery pack is in good working order! Make sure AC wiring and DC wiring is in good working order. Make sure AC and DC power is removed while servicing the charger. Keep charger away from flammable materials. Keep charger away from wet area's and rain. Make sure charger air flow vents are not blocked. Pull AC cord from wall socket to disable the charger before disconnecting DC cord (if charger is in the run mode). Make sure all AC lines are up to local code. It is recommended to install surge arrestors in power lines for protection from lighting strikes. Disconnect the DC cord by pulling handle not the cord! Store DC cord off the floor/ground when not using with appropriate hanger. All repair should be performed by an experienced technician.

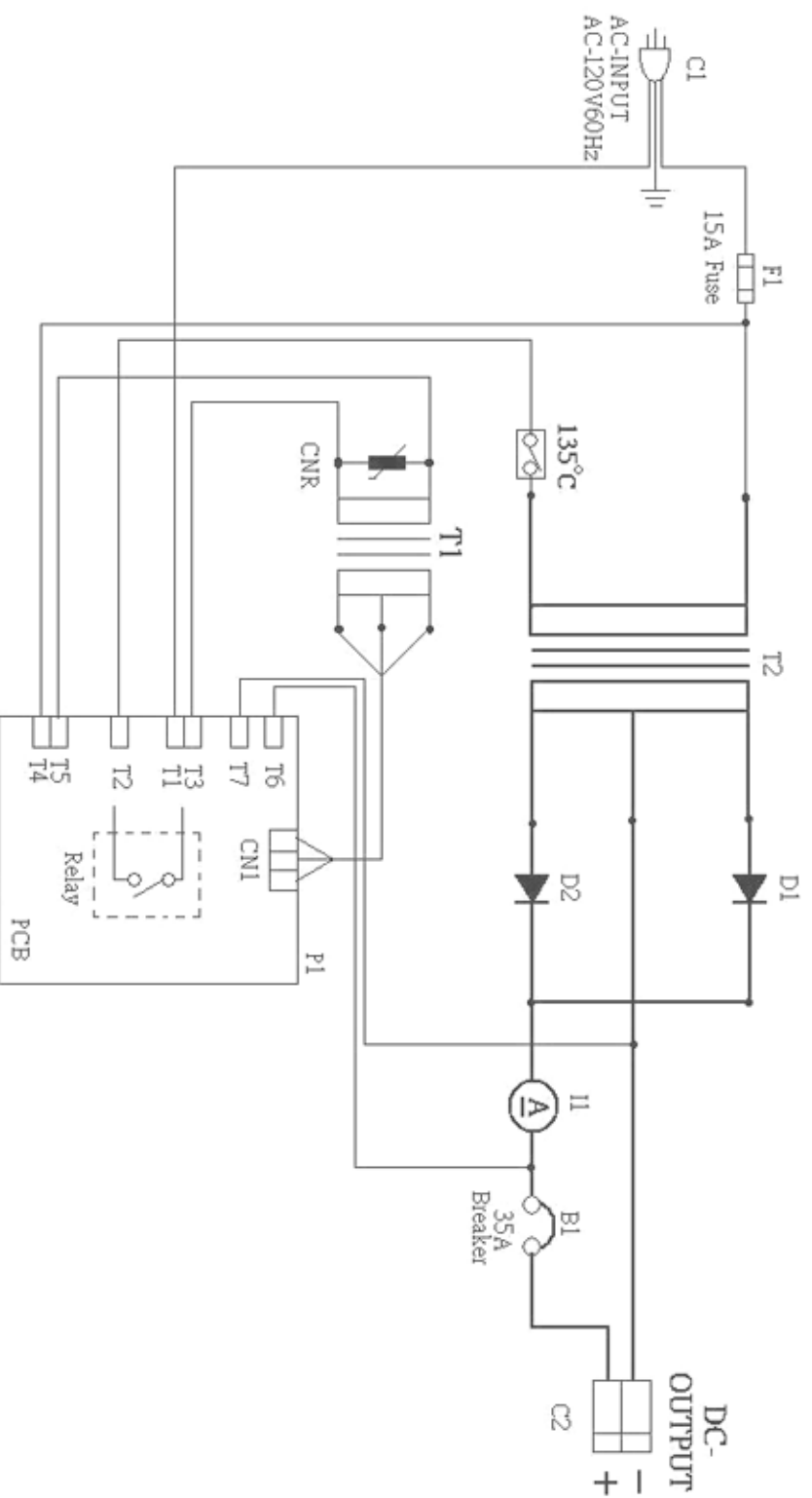


Wear Eye Protection!

Function:

Plug charger AC cord into AC line socket. Plug DC cord handle into car receptacle. Make sure handle is started straight and in inline with slot in receptacle. Push solid into receptacle making sure it is completely engaged. After a short delay you should hear an audible "click" inside the charger followed by transformer "hum". You should now see a 15 to 20 amp indication on the charger ammeter. After a short time you will see the charger amperage lower, this is normal. At that point the PC Board is checking voltage to see the condition of the battery pack. The PC Board will continue monitoring voltage to the end of charge. Again that is a normal function. Once the battery pack voltage rises to a certain level we call a finish rate which will be in a range of 4 or 5 amps the PC Board monitors voltage for a period of time and then shuts off.

WIRING DIAGRAM



Replacement Parts Available for Purchase:

- 3625-Outer case for 3618 charger
- 3626-(I1)-Ammeter
- 3627-(B1)-Circuit Breaker
- 3628-(P1)-Timer Board
- 3629-(T1)-Small Transformer **(Voltage Drop)**
- 3630-(D1/D2)-Diode (1pc only)

- T6 is 36 Volts DC Positive
- T7 is 36 Volts DC Negative
- T3 is 120 Volts AC To T1 Voltage Drop
- T1 is 120 Volts AC In
- T2 is 120 Volts AC to Transformer
- T5 is 120 Volts AC To T1 Voltage Drop
- T4 is 120 Volts AC In
- CN1
- Two white wires are 12.5 volts Input to PC board
- Black wire is neutral