

TECHNICAL SERVICE BULLETIN

NSS Enterprises, Inc.



Please post for your Service Department to see

To: NSS Distributors & Service Centers
Date: February 23, 2005
Product: Charger Series Battery Burnisher 2025 (All) and 2716 (All)
Subject: Shunt and Max Collar Amp Settings

The following adjustment procedures are designed to set the machine back to original factory specs. This adjustment should be done if the machine has a lack of pad pressure adjustability or has experienced continued circuit breaker tripping or other over-current symptoms.

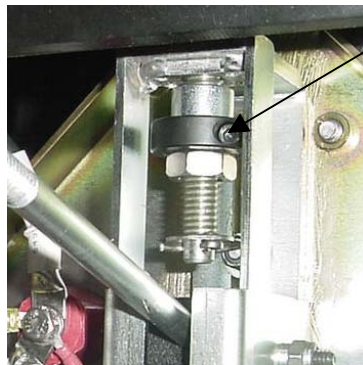
1. Check to confirm all wire connections are tight, pay particular attention to battery cables.
2. Verify that the hose clamp on the Flexi-wall shield is tight. Confirm that the brush around edge of Flexi-wall shield is in tack and secure.
3. Confirm dust collection bag is empty and dust collection hose is not plugged, kinked or torn.
4. Lift the release lever. Raise/lower pad. It should operate smoothly and (click into) three (3) positions, Pad Change, Transport and Operate.
5. Turn master switch to On (up) position and verify that green indicator light is on and confirm that the volts are a minimum of **36.0 volts**. If not, charge batteries before continuing.
6. Lift the release lever. Raise pad to "pad change position" and turn the twist grip handles. **Pad should not turn on.** Confirm that a new or clean pad is mounted on pad driver.
7. Lower pad to "transport position" and turn the twist grip forward. **Pad should not turn on.**
8. Check the forward/reverse by turning the twist grip handles. Verify that twist grip returns to neutral position when released.
9. Push the drive circuit breaker to disconnect drive circuit.
10. With machine in "operate position", twist the grips to turn pad motor on, check the machine at the following parameters:

MACHINE	VOLTAGE	RPM's	SHUNT AMPS	MAX COLLAR AMPS
Charger 2025 DB/AB	35 Volts min.	2400 – 2700	48 – 52	75 (73 – 80)
Charger 2716 DB Plus	33 Volts min.	1500 – 1700	58 – 62	85 (83 – 90)
Charger 2716 AB	33 Volts min.	1350 - 1550	58 – 62	85 (83 – 90)

11. Adjust shunt to have meter read at mid point when machine is operated at SHUNT AMPS. (Green Area of Pad Pressure Gauge). (See Picture).
12. Turn the pad pressure knob so that the amp meter reads MAX COLLAR AMPS. (Pad Pressure Gauge should be **just** in the red area)
13. Turn the bottom collar so the spacer is against the adjustment bracket. (See Picture).

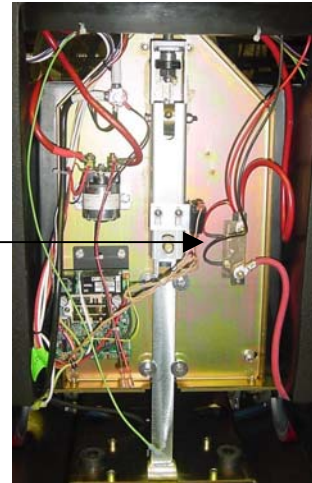
**If you have questions please contact:
 NSS Technical Services 800-261-3499**

14. If the setscrew on the bottom collar is facing away from you, turn the jam nut against the collar and turn the pad pressure knob so you have access to the setscrew on the collar. Tighten setscrew on collar. (See Picture).
15. Turn the pad pressure knob to MAX COLLAR AMPS and confirm that the machine is operating within above specs.
16. Turn the pad pressure knob so the machine is operating at SHUNT AMPS and verify that the meter is at the mid point (Green Area of Pad Pressure Gauge).



Collar
Set
Screw

Shunt
Adjustment



*** This adjustment procedure is based on the assumption that the Pad Motor Angle Setting has not changed from the initial factory setting. If the above procedure does not yield satisfactory results, the Pad Motor Angle might need to be set using the following table for the correct Pad Alignment Fixture. All Pad Alignment Fixtures come with setting instructions.

MACHINE	Pad Alignment Setting Fixture Part Number	Instructions Part Number
Charger 2025 DB	N/A	N/A
Charger 2025 AB	6492619	6492531
Charger 2716 DB	6495639	6492531
Charger 2716 AB	6492619	6492531

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