

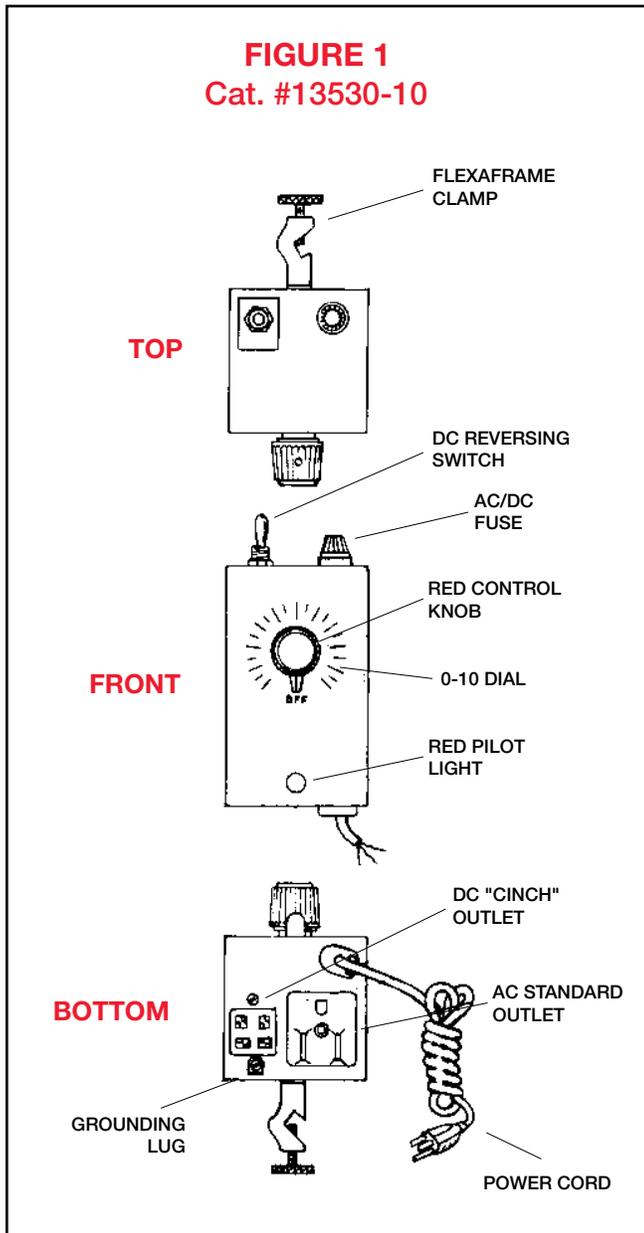
13530-10

Solid State Power Controller

Operating Instructions

13530-10. Excellent for low speed, high torque operation.

Will operate 13649 DC series wound reversible motor up to 5000 rpm. on the high speed shaft at rated torque. Features are identified in Fig. 1.



DC Output

Four prong output socket "cinch" type with lug for grounding.

Output rating: 0-120 DC volts, 6 amps max. (DC-unfiltered) (Fused properly).

FORWARD-OFF-REVERSE switch controls armature rotation.

Motor speed controlled by smooth acting control knob with "click-off" and 0-10 division dial. Red pilot light indicates when controller is energized. Supplied with 1/2 amp. fuse, to protect the 13649 Motor from possible burn-out when extreme loads are placed on motor shaft. Spare fuse supplied. [For additional fuses, order 12117-18].

Figure 2, (on other side) shows how to wire DC series wound motor other than ACE 13649; or, if so desired, a DC load with the "cinch" plug supplied.

AC Output

Three prong standard with ground a unique feature. Output rating: 0-120 volts max., 0-10 amps max. 60 Hz. When using the AC outlet, a 10 amp. fuse can be used to protect the controller since 10 amps is the total AC current capability of the controller. The AC output is controlled by the same control knob as the DC output and delivers zero to full power to the AC outlet.

Since both the AC and DC outlets are controlled simultaneously by the control knob, you can stir and heat at the same time. in the same proportion; e.g. stirring motor, DC outlet-heating mantle, AC outlet. Or, you can use the AC outlet only in place of an autotransformer to power heating mantles. Universal motors, heating baths, hot plates, incandescent lighting, resistive loads, and primary transformers. Recommended generally for loads that are capable of with standing 120 volts.



ACE GLASS INCORPORATED

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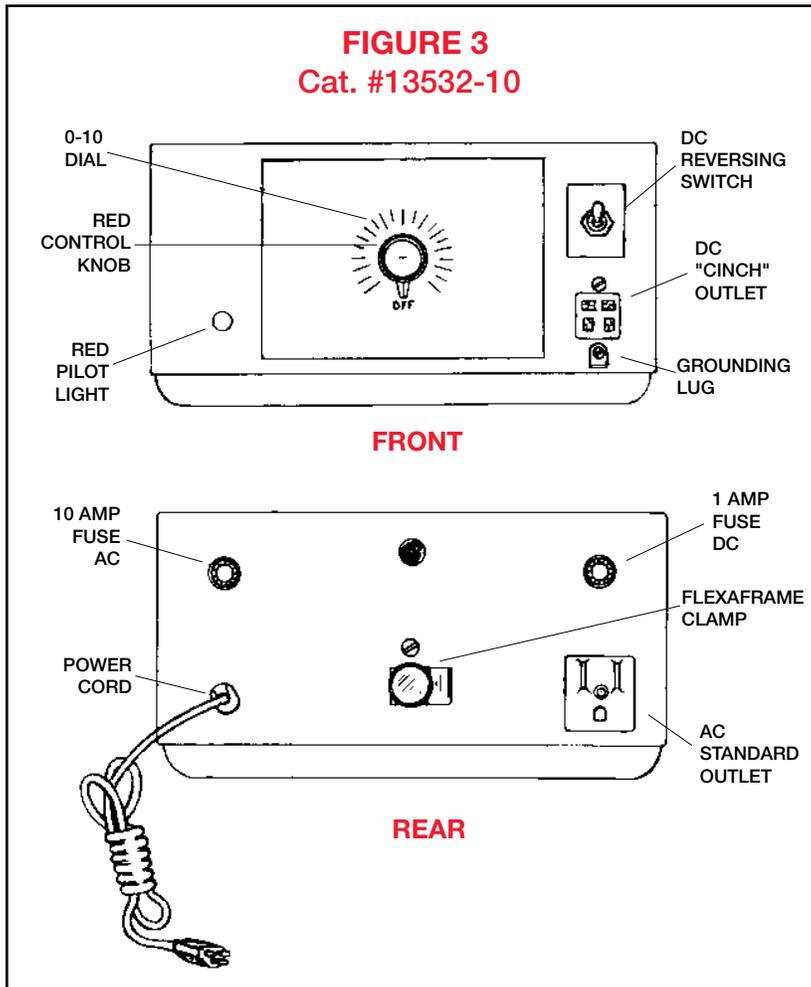
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13532-10 HEAVY DUTY Solid State Power Controller

Operating Instructions

Heavy duty for reliability at higher speeds. Designed to obtain the optimum from the ACE 13649 Motor. Delivers 25% higher top speed and torque due to a voltage booster. Features are identified in Fig. 3.



DC Output

Four prong "cinch" type with lug for ground-ing motor. 0-150 volts max., 0-3 amps. max. (Filtered DC) Fused properly.

CENTER-OFF-REVERSE switch to control armature rotation. Easy access 1/2 amp. fuse for the DC circuitry only (no need to change fuses for AC or DC outputs). Protects 13649 Motor. Spare 1/2 amp fuse supplied. [For additional fuses, order 12117-19].

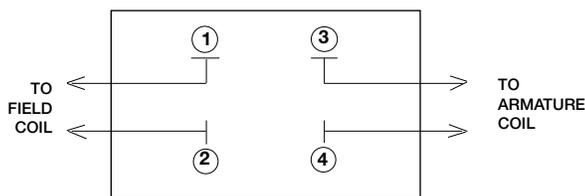
Fig. 2 shows how to wire a DC series wound motor or a DC load with supplied "cinch" plug.

AC Output

Three prong standard with ground. Same features as the 13530-10. 0-120 volts max., 0-10 amps max., 60 Hz. 10 amp fuse for AC output (no need to change fuses). [For additional fuses, order 12117-33].

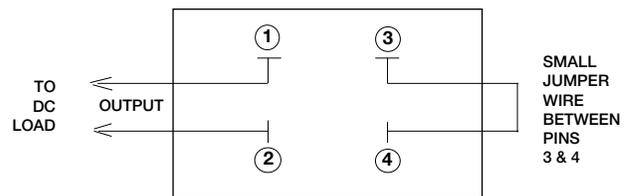
FIGURE 2

(A) How to wire supplied "cinch" plug to your DC series wound reversible motor



Maximum DC output ratings for Both (A) & (B) Configurations
Cat. #13530-10: 0-120 volts, 0-6 amps., DC (Unfiltered)
Cat. #13532-10: 0-150 volts, 0-3 amps., DC (Filtered)

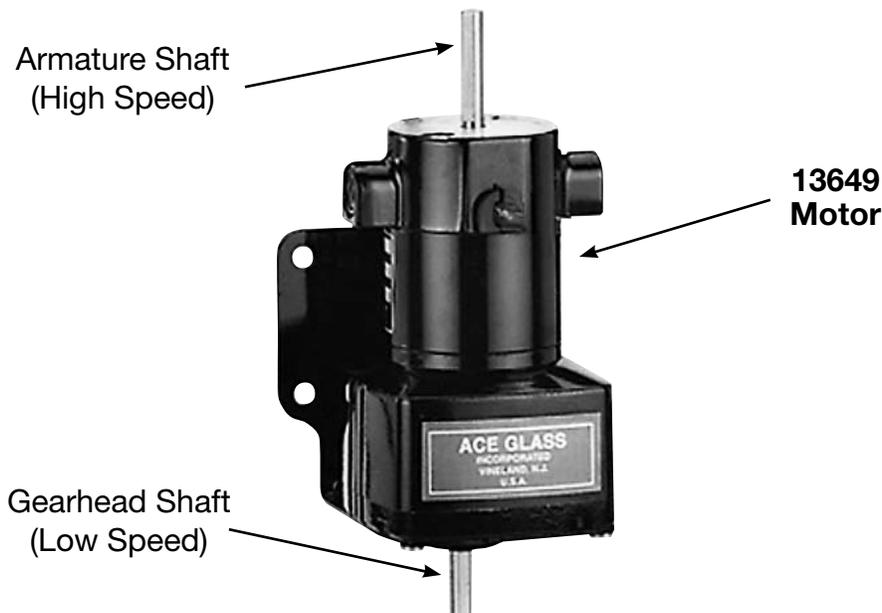
(B) How to wire supplied "cinch" plug to your DC load



Forward position on switch 1: NEGATIVE
2: POSITIVE
Reverse position on switch 1: POSITIVE
2: NEGATIVE

WARNING!

For Ace Stirring Motors 13649, 13562 and 13584 or Motors with two-speed shafts



To prevent overloading the motor, which can cause burnout of the armature or field windings, use the low-speed shaft (i.e., the shaft coming out of the bottom of the motor (see illustration above)).

Blown fuses or tripped circuit breakers may be an indication that a problem exists, and that over-torquing may be occurring. Burned windings on these motors is evidence of over-heating, and this could negate the warranty.

If motor and controller are running hot (over 60°C) or continually blowing fuses or tripping circuit breakers, then a larger capacity motor should be used.

ALERT: To protect this motor, we recommend using a 1/2 amp fuse.



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