

MODEL SEC24N ELECTRIC SCREWDRIVER CONTROLLER

READ ALL INSTRUCTIONS

▲ WARNING

Disconnect the Controller Power Cord from the receptacle before performing any maintenance on this Controller. Do not attempt to repair this Controller unless you are a qualified electrician.

When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

- 1. Keep work area clean.**
Cluttered areas and benches invite injuries.
- 2. Consider work area environment.**
Don't expose the Controller to water.
Keep work area well lit.
- 3. Guard against electric shock.**
Prevent body contact with grounded surfaces, such as pipes, metal structures or other electrical products.
- 4. Keep bystanders away.**
Do not permit unauthorized personnel to operate this Controller.
- 5. Store idle tools.**
When not in use, the Controller should be stored in a dry and secured area.
- 6. Don't abuse cord.**
Never carry a Controller by its cord or yank the cord of the Controller to disconnect it from a receptacle.
Keep cord from heat, oil, solvent and sharp edges.
- 7. Maintain Controller with care.**
Inspect Controller cord periodically and if damaged, have repaired by authorized service facility.

NOTICE

SAVE THESE INSTRUCTIONS. DO NOT DESTROY.

NOTICE

The use of other than genuine ARO replacement parts may result in safety hazards, decreased tool performance, and increased maintenance, and may invalidate all warranties.

ARO is not responsible for customer modification of tools for applications on which ARO Tool was not consulted.

Repairs should be made only by authorized trained personnel. Consult your nearest ARO Tool Authorized Servicenter. It is the responsibility of the employer to place the information in this manual into the hands of the operator.

For parts and service information, contact your local ARO distributor.

ARO Tool & Hoist Products

Ingersoll-Rand Company

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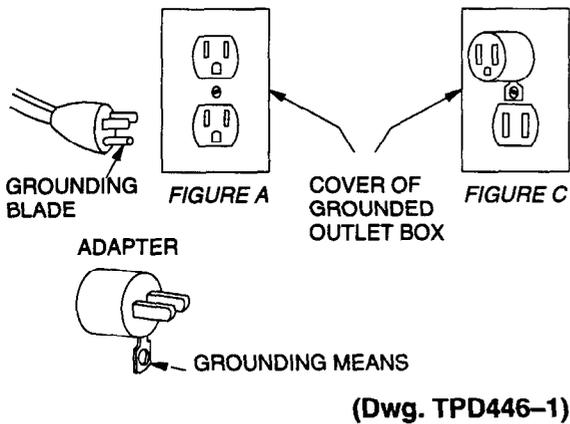
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GROUNDING INSTRUCTIONS

The Controller should be grounded while in use to protect the operator from electric shock. The Controller is equipped with a three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle.

The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150V, it has a plug that looks like that shown in Figure A. An adapter (see Figure B) is available for connecting Figure A-type plugs to 2-prong receptacles. The green colored rigid grounding strap extending from the adapter must be connected to a permanent ground such as to a properly grounded outlet box.



⚠ WARNING

For safe use of adapters, the outlet box must be grounded. If there is any doubt, have a qualified electrician check connections.

Extension Cords

Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3 pole receptacles that accept the controller's plug. Replace or repair damaged cords.

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Total Length of Cord in Feet				
0 - 25	26 - 50	51 - 100	101 - 150	
18	16	AWG	16	14

CAUTION

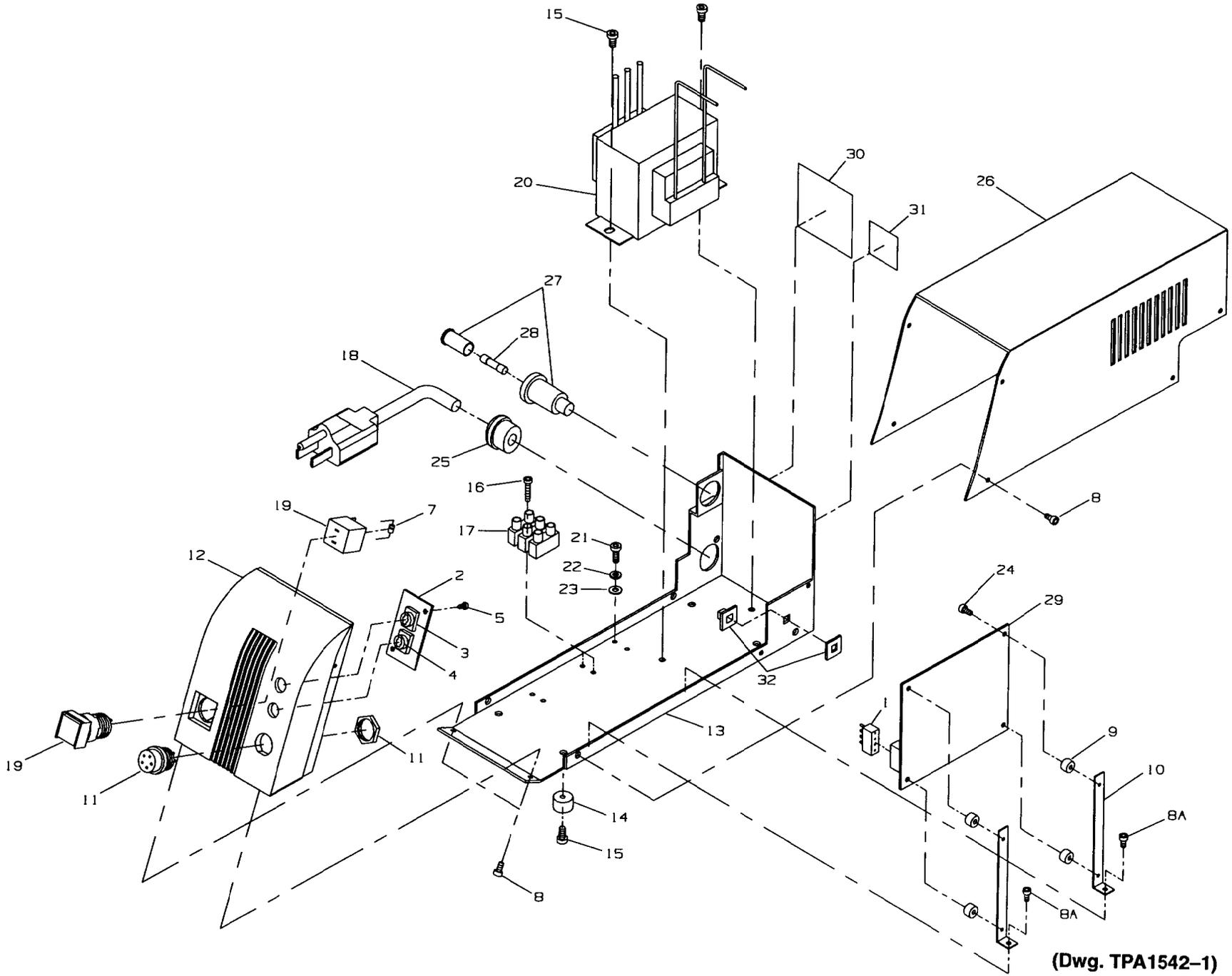
OPERATION

1. Do not drop or abuse the Controller.
2. Whenever a Controller is not being used, position the Power Switch to the "OFF" position and unplug the power cord.

MAINTENANCE

DO NOT ATTEMPT TO REPAIR THIS TOOL.

All repairs and maintenance of the Controller and its cord must be performed by an authorized servicenter. Contact your local ARO Distributor.



MAINTENANCE SECTION

(Dwg. TPA1542-1)

PART NUMBER FOR ORDERING

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1	Plug (2)	EC24N-238	21	Ground Screw	EC24N-41
2	Potentiometer PCB	EC24N-200	22	Ground Screw Lockwasher (top; split type)	EC24N-42
3	Speed Potentiometer	EC24N-93	23	Ground Screw Lockwasher (bottom; internal teeth)	EC24N-43
4	Soft Start Potentiometer	EC24N-424	24	Self-tapping Screw (4)	_____
5	Self-tapping Screw (2)	_____	25	Cord Strain Relief Grommet	EC24N-240
7	Zener Diode	EC24N-204	26	Cover	EC24N-40
8	Self tapping Screw (12)	_____	27	Fuse Holder	EC24N-45
8A	Bracket Screw (2)	_____		Fuse Package	EC24N-P46
9	Control Base Spacer (4)	_____	28	Fuse	_____
10	Control Base Mounting Bracket (2)	EC24N-426	29	Control Base Assembly	EC24N-525
11	Receptacle	EC24N-203	30	Nameplate	SEC24N-301
12	Front Panel	SEC24N-25	31	Indoor Use Only label	EC24N-97
13	Chassis	EC24N-3	32	Signal Terminal	EC24N-47
14	Rubber Foot (4)	_____	*	Chassis Hardware Package (includes illustrated items 5 [2], 8 [12], 8A [2], 9 [4], 14 [4], 15 [6], 16 [2], 24 [4],	EC24N-P3
15	Self-tapping Screw (6)	_____	*	Controller Mounting Bracket	EC24-MB
16	Self-tapping Screw (2)	_____	*	Digital Counter	EC24-DC
17	Terminal Block (1)	EC24N-30	*	Fuse Warning Label	EC24N-98
18	Cord Assembly	EC24N-239			
19	Power Switch	EC24N-565			
20	Transformer	EC24N-53			

* Not illustrated.

MAINTENANCE SECTION

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TROUBLESHOOTING GUIDE

Trouble	Probable Cause	Solution
No Power	Fuse	Disconnect Power Cord. Replace fuse.
	Power Switch	Disconnect Power Cord. Use ohmmeter to check yellow and black leads at Switch. Reading should be 0 to full scale when switched from on to off.
	Power Cord	Use Voltmeter to check white lead at terminal block and black lead at Switch. Reading should be 115 VAC.
	Transformer	Use voltmeter to check the two yellow leads from the Transformer. Reading should be 24 VAC.
	Circuit Board	Replace the circuit board.
Faulty braking	Circuit Board	Replace the Circuit Board.
Speed Control does not work	Speed Potentiometer	Disconnect Power Cord. Unplug the Socket Assembly from Circuit Board. Using an ohmmeter, check the yellow and orange leads at the potentiometer by rotating the knob. Reading should be 0 to 2 000 ohms.
	Circuit Board	Replace the Circuit Board.

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