
Overhaul Instructions



PW 15 thru 18

SERIES PW 186

CLARK

Book No. OH-525

5. Remove nut and screw from strap.
6. Remove strap from battery charger.

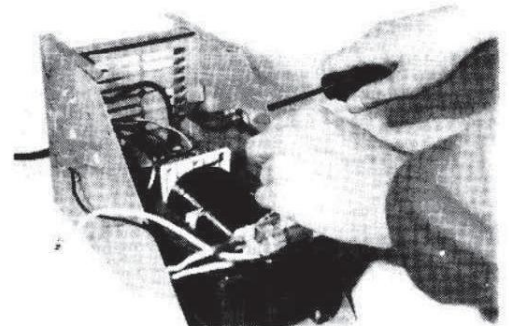


Fig. 24228

7. Turn battery charger over. Remove screws (A). Remove transformer (B).
8. Remove ground electric wire from rectifier assembly.
9. Remove electric wires from diodes on rectifier assembly. Use a soldering iron.

NOTE

Do not remove wires or diodes from rectifier assembly except to replace.

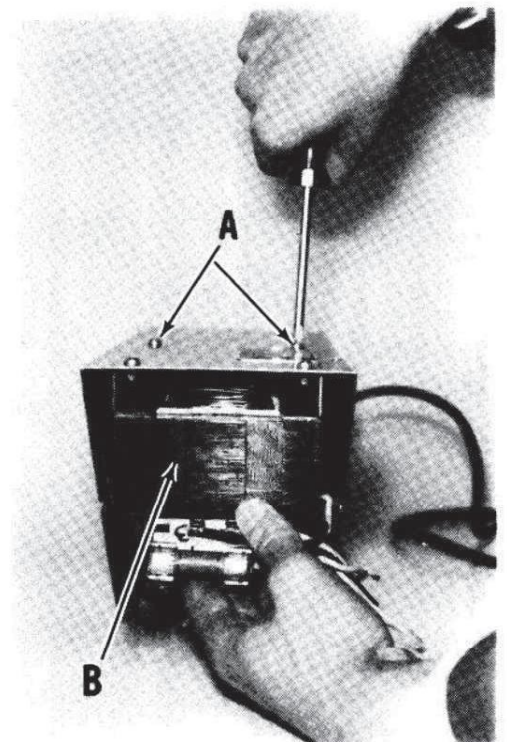


Fig. 24229

10. Remove nuts (A) and plastic screws (B) from rectifier assembly (C).
11. Remove rectifier assembly and insulators.

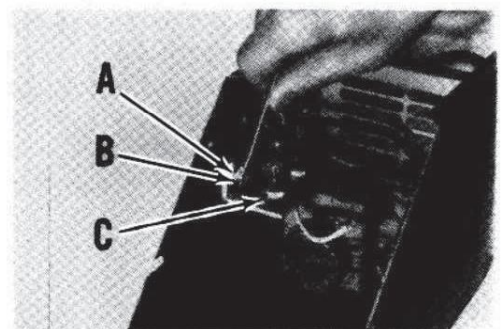


Fig. 24230

GROUP 12

CLARK

12. Remove nuts, lockwashers and screws from receptacle.
13. Remove receptacle.
14. Remove electric wires from ammeter.

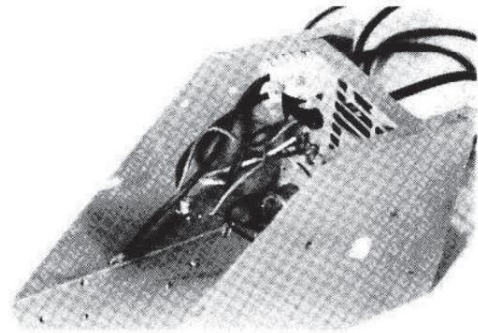


Fig. 24231

15. Remove nuts (A) from ammeter bracket (B).
16. Remove bracket and ammeter.

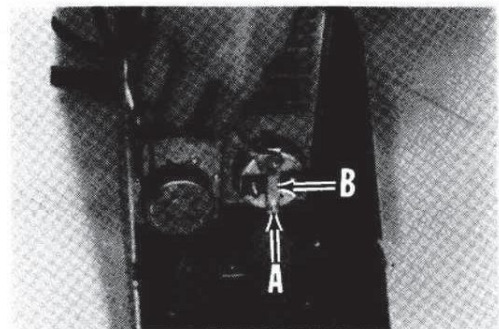


Fig. 24232

17. Pull knob off timer.

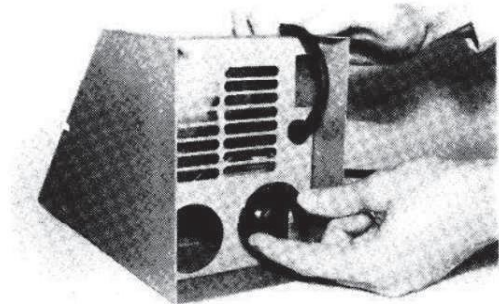


Fig. 24233

18. Remove screws and lockwashers from dial.
19. Remove dial and timer.

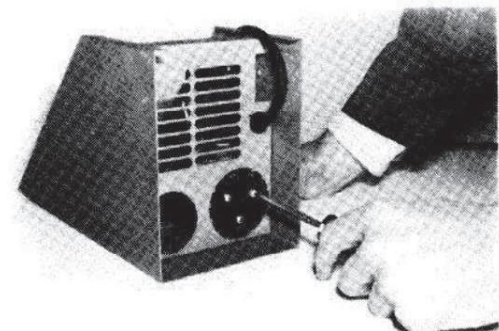


Fig. 24234

CLEANING:

1. Clean metal parts with cleaning solvent.
Use a soft fiber brush for heavy deposits.

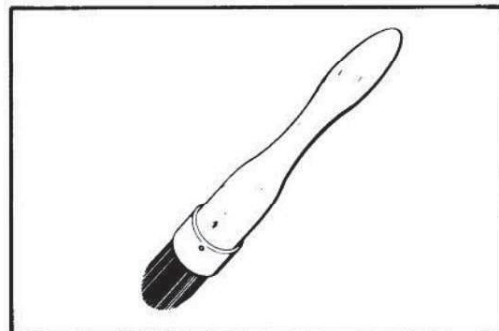


Fig. 24005

2. Use an air gun to clean small threads or passages in a part.
3. Dry parts with a clean shop cloth or let air dry.
4. Clean plastic parts with a shop cloth. Put part in cleaning solvent to loosen dirt or grease as necessary.

NOTE

Do not soak a plastic part in cleaning solvent. The solvent can damage or destroy a plastic part.

5. Clean electric parts with a shop cloth. Do not put an electric part in cleaning solvent. If necessary put part of shop cloth in cleaning solvent, then clean part.

INSPECTION:

1. Inspect a metal part for corrosion, damage to any thread or a defect in part. Inspect a machined surface for any scratch or damage that would prevent mating contact with other part.
2. Inspect electric parts for corrosion, burnt wire or other electric damage.
3. Inspect plastic parts for defects such as chips, cracks or cuts. Inspect for damage that would prevent a proper seal or operation of part.

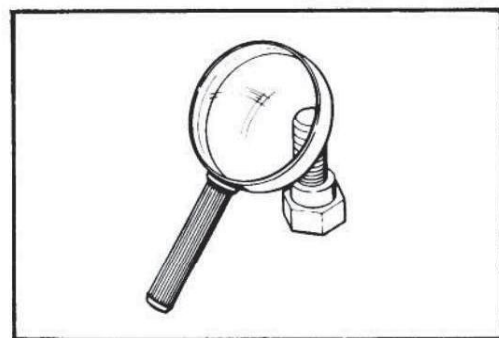


Fig. 24006



WARNING

AIR PRESSURE

WEAR EYE PROTECTION & PROTECTIVE CLOTHING WHEN CLEANING OR DRYING WITH AIR PRESSURE. REDUCE PRESSURE TO [207 kPa] 30 PSI. DEBRIS REMOVED WITH AIR PRESSURE CAN CAUSE INJURY.

GROUP 12

CLARK

REPAIR:

1. Limit repair of metal parts to removal of corrosion, repair of damage to threads or threaded holes, and removal of small scratches or surface defects.
2. Limit repair of plastic parts to the repair of minor cracks or chips. Use a good grade adhesive for use on plastic.
3. Replace all damaged fasteners, fittings, terminals and burnt wires.

ASSEMBLY:

Assemble the battery charger components in reverse order of DISASSEMBLY. Note the following special steps.

IMPORTANT

Failure to follow these steps can result in damage to components or personal injury.

1. When installing rectifier assembly (A) the insulators (B) must be installed between the rectifier assembly and metal side of battery charger.
2. You must use plastic screws (C) to hold rectifier assembly in place.
3. Use a heat sink and low watt soldering iron to attach electric wires to diode on rectifier assembly.
4. Place electric wires (D) to keep them away from other parts. Secure with plastic ties (E).
5. Inspect all wires and components after assembly for correct and secure connection. If necessary, see battery charger wiring diagram.

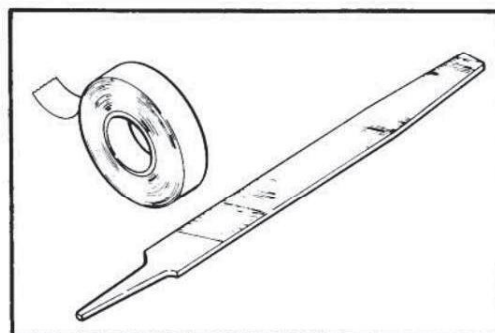


Fig. 24008

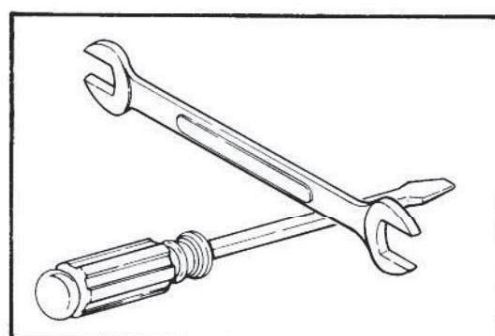


Fig. 24009

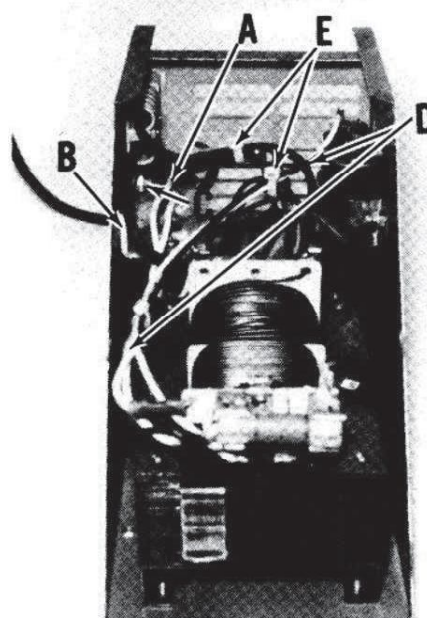



Fig. 24227

BENCH TEST:

	<h2>WARNING</h2>
<h3>ELECTRICAL BURNS</h3>	
<p>DISCONNECT THE BATTERY AND REMOVE ALL JEWELRY BEFORE WORKING ON ANY ELECTRICAL SYSTEM. SEVERE BURNS CAN RESULT FROM CONTACT WITH ELECTRICAL SYSTEMS</p>	

1. Plug battery charger in to a 115 VAC power supply.
2. Check for correct operation.
3. Set timer. Connect a Volt-ohmmeter to battery receptacle. Set scale for 50 VDC. The meter should read 36 VDC no load.

INSTALLATION:

See Battery Pack, Group 23, Section 1R for instructions.

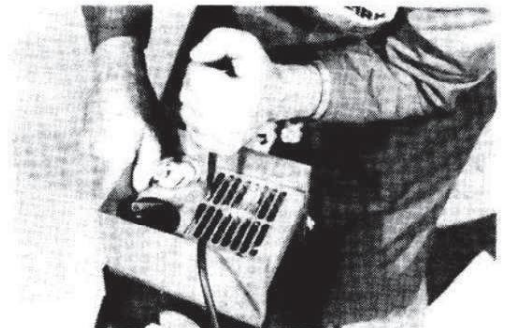


Fig. 23980

TESTING:

IMPORTANT

The battery charger is rated at 24 VDC. Each battery is 6 VDC. All batteries must be connected in circuit before operating battery charger.

1. Check condition of each battery. See PMA-525, Group 12, Section 1 for instructions on battery maintenance.

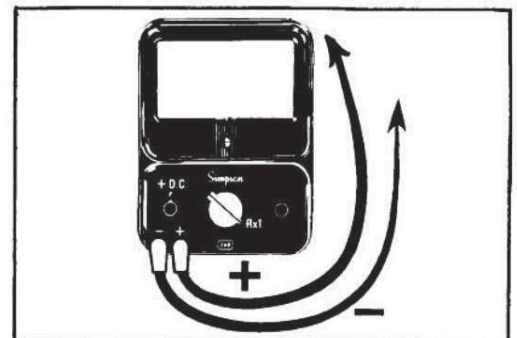


Fig. 12703

GROUP 12

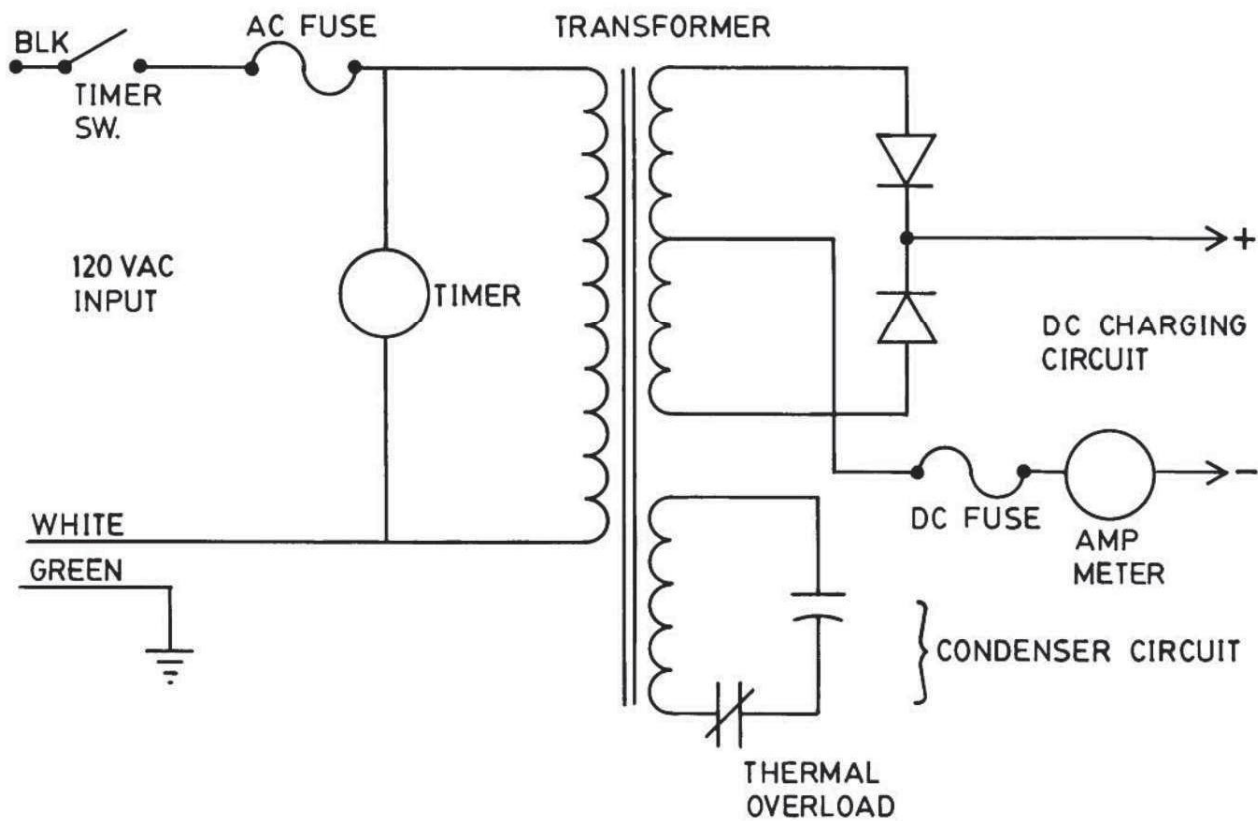
CLARK

2. Normal battery voltage while on charge should be as follows.

24 VDC

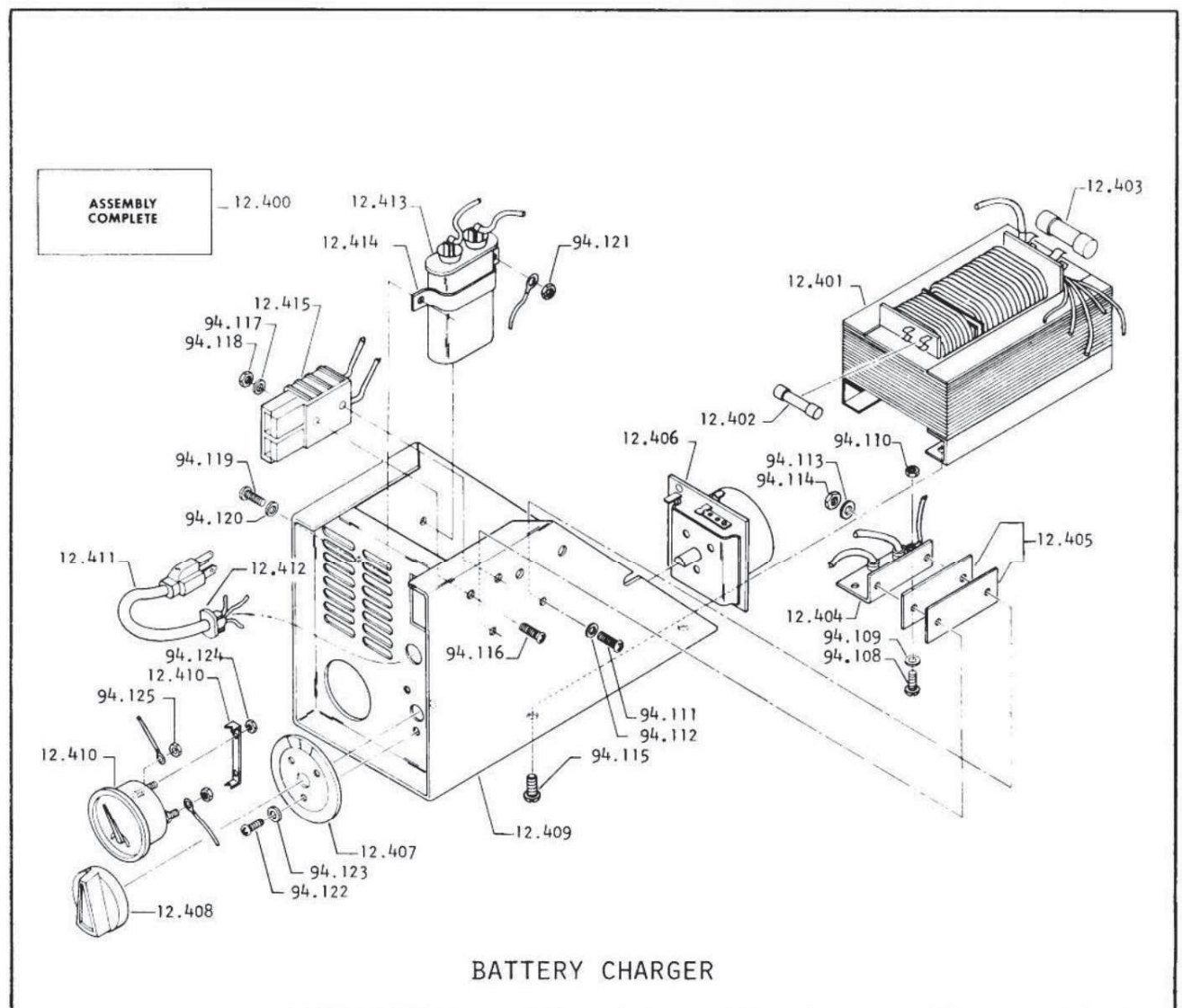
25.6 VDC start rate

30.0 VDC finish rate





PW 15-18

23927-M



12.400	BATTERY CHARGER ASSEMBLY	94.109	WASHER, BATT CHARGER RECEPTACLE GROUND LEAD FAST
12.401	TRANSFORMER, BATTERY CHARGER	94.110	NUT, BATTERY CHARGER RECEPTACLE GROUND LEAD FAST
12.402	FUSE, BATTERY CHARGER TRANSFORMER PRIMARY CIRCUIT	94.111	FASTENER, BATTERY CHARGER RECTIFIER
12.403	FUSE, BATT CHARGER TRANSFORMER SECONDARY CIRCUIT	94.112	WASHER, BATTERY CHARGER RECTIFIER FASTENER
12.404	RECTIFIER ASSEMBLY, BATTERY CHARGER	94.113	WASHER, BATTERY CHARGER RECTIFIER FASTENER
12.405	INSULATOR, BATTERY CHARGER RECTIFIER	94.114	NUT, BATTERY CHARGER RECTIFIER FASTENER
12.406	TIMER, BATTERY CHARGER	94.115	FASTENER, BATTERY CHARGER TRANSFORMER
12.407	DIAL, BATTERY CHARGER TIMER	94.116	FASTENER, BATTERY CHARGER BATTERY RECEPTACLE
12.408	KNOB, BATTERY CHARGER TIMER	94.117	WASHER, BATTERY CHARGER BATTERY RECEPTACLE FAST
12.409	CASE, BATTERY CHARGER	94.118	NUT, BATTERY CHARGER BATTERY RECEPTACLE FASTENER
12.410	AMMETER, BATTERY CHARGER	94.119	FASTENER, BATT CHARGER CONDENSER MOUNTING STRAP
12.411	CORD, BATTERY CHARGER POWER	94.120	WASHER, BATTERY CHARGER CONDENSER MTG STRAP FAST
12.412	STRAIN RELIEF, BATTERY CHARGER POWER CORD	94.121	NUT, BATT CHARGER CONDENSER MOUNTING STRAP FAST
12.413	CONDENSER, BATTERY CHARGER	94.122	FASTENER, BATTERY CHARGER DIAL
12.414	STRAP, BATTERY CHARGER CONDENSER MOUNTING	94.123	WASHER, BATTERY CHARGER DIAL FASTENER
12.415	RECEPTACLE, BATTERY CHARGER BATTERY	94.124	FASTENER, BATTERY CHARGER AMMETER
94.108	FASTENER, BATTERY CHARGER RECEPTACLE GROUND LEAD	94.125	FASTENER, BATTERY CHARGER AMMETER TERMINAL

	WARNING
ELECTRICAL BURNS	
DISCONNECT THE BATTERY AND REMOVE ALL JEWELRY BEFORE WORKING ON ANY ELECTRICAL SYSTEM. SEVERE BURNS CAN RESULT FROM CONTACT WITH ELECTRICAL SYSTEMS	

	WARNING
ELECTRICAL BURNS	
DISCONNECT THE BATTERY BEFORE YOU REMOVE THIS PART FROM THE TRUCK. SEVERE BURNS CAN RESULT FROM CONTACT WITH ELECTRICAL SYSTEMS.	

MASTER CONTROL REMOVAL:

1. Remove knob, plate and battery cover.
2. Remove battery plug.
3. Remove ring clips from one side of control handle.

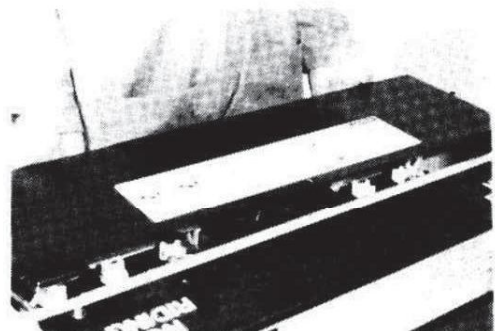


Fig. 23971

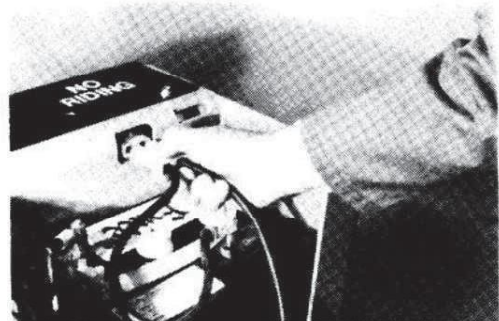


Fig. 23967



Fig. 24026