Kwikee ENTERPRISES, Inc.

Presents

Lectro-Matic Steps

Model 2500-8300

STEP IN
Double Step, 24" as used by Holiday Rambler and others

STEP OUT

Single Pickup Step for 4-wheel drive etc. 18" (Special Order Only)

Single Step, 24" wide as used by King's Highway, Pace Arrow, Sports Coach, Champion, and many other fine motor homes.

Kwikee Manufacturers: Not One, but Three Types of Steps

Used both personally, and commercially, one for any occasion. From a compact 4" thick, by 24" wide-single step, when retracted, with an exclusive telescoping 9 1/8" fully usable tread, with a total extension of 10½", to a similar step only 18" wide, for 4-wheel drive units, etc.

Also available, a compact 5½" thick x 24" wide, when retracted, double step, with 2 fully usable 8" treads, having a combined riser height of 14¾" for the high floor line R.V. Coaches.

The Spirit of Freedom

The spirit of freedom was never so assured. Freedom from worry of having a step available, illuminated by the simple process of opening motor home, or trailer door. In 1½ seconds, or less, your Kwikee step is there waiting for you.

Freedom from expensive repairs, and down time. Solid state electro mechancial remote control, can be repaired, or replaced in most cases, in less than 10 minutes. Motor can be replaced, in most cases, in less than 30 minutes. Step never has to be removed for these repairs.

The step(should motor failure occur), has a provision for safely locking the step up out of the way of road damage, etc. If step is obstructed, in normal use by high curb, the control shuts itself off on contact with obstruction to prevent damage to step, or step motor. Simply close the door, and step reverses, and retracts. Also featuring automatic understep courtesy light, and ease of installation.

Fourteen years of development went into the refinement, and perfection of this step and control, by the originator of the automatic step.

One year limited warranty.

Make your travel equipment truly a pleasure. No messy step to pull out or push back by hand. The step's powerful 120 inch pound torque motor does the job for you. Step sold complete with control unit, understep light, kill switch, and door switch. This unit is also equipped with an ignition switch actuated override circuit built in. When door is closed, and your step is still down, and turned off by the kill switch, the moment you turn on the ignition switch, the step comes up automatically. Thus eliminating the need for any warning lights.

Kwikee ENTERPRISES, Inc.

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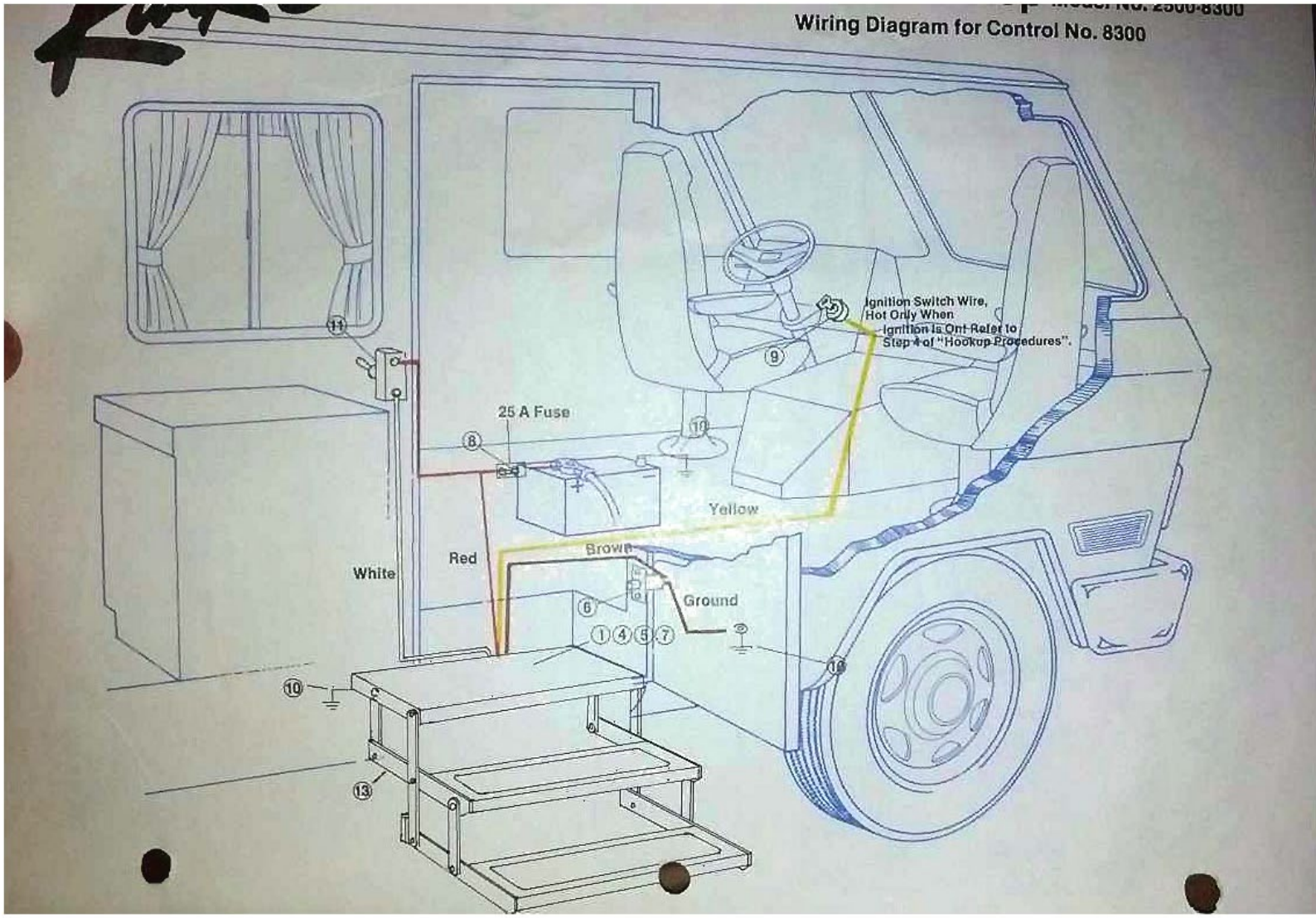
Wiring Diagram for Control No. 8300



Hookup Procedure For The No. 2500-8300

Notes: All hardware pertaining to the electromatic step should be in place before any wires are connected to the step circuitry.

When combined lengths of hot leads exceed 15 feet use No. 10 wire.

It is important that there is ample clearance in the door frame for the door switch body, **UNDER NO CIRCUMSTANCES SHOULD THE DOOR SWITCH HAVE TO BE FORCED INTO IT'S MOUNTING LOCATION.** To insure proper operation of the step, the button of the door switch must be depressed at least two thirds of it's travel ability when the door is closed. It is suggested that the screen door should **NOT be used to activate the door switch.**

It is important that the step frame is not twisted when being installed. The step top should maintain a level plane.

The following is a suggested hookup procedure and sequence to insure proper and long term trouble free operation of the step:

1. Connect the step frame to chassis ground either by direct attachment or 10 gauge wire.

2. Hookup the brown lead from the control unit to the door switch. Keep in mind the following: do not pull this lead tight, let it lay a little slack, even if it is encased in an insulator tube (replacement of the door switch may someday be necessary, if the leads to the door switch were tight it would be extremely difficult to replace.)

3. Hookup. The ground lead from the door switch to chassis ground. **A GOOD GROUND IS A MUST.**

4. Attach the yellow wire to the ignition switch. This lead should only be "Hot" when the ignition switch is on. NOTE. . . Be sure NOT to turn the ignition switch on at any time until all hookups are complete.

5. Attach the white power lead exactly as shown in the supplied wiring diagram. Keep in mind the following:

   BEFORE HOOKUP, BE SURE THE 25 AMP FUSE SHOWN IN THE WIRING DIAGRAM IS NOT IN PLACE UNTIL COMPLETE INSTALLATION IS ACHIEVED. AT NO TIME SHOULD THE WHITE LEAD BE "HOT" DURING THE DURATION OF THE STEP AND THE CONTROL UNIT INSTALLATION. THIS LEAD IS TO RECEIVE POWER ONLY WHEN ALL HOOKUPS ARE COMPLETED AND THEN ONLY FROM A BATTERY!

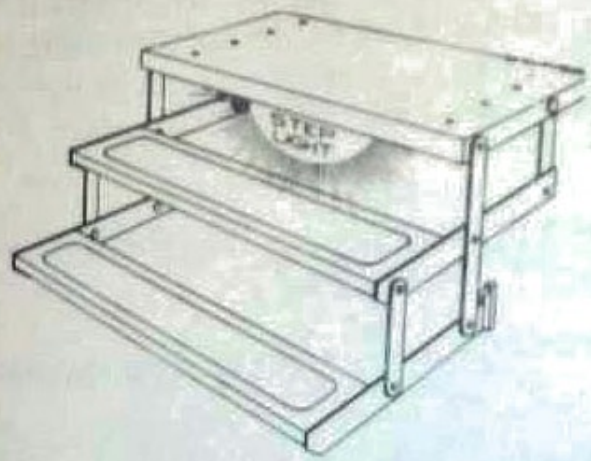
6. Attach the red lead from the control unit directly to a constant 12V positive source, such as the "hot" side of the kill switch.

Please Note: If hookup to the "hot" side of the kill switch is impossible, run an independent lead **DIRectly to the battery** through a 25 AMP fuse, but be sure the fuse is **NOT** installed **UNTIL ALL** connections are complete.

7. If all connections have been completed, make sure the kill switch is off and the ignition switch is off. Install the fuses. The step is now ready for operation.

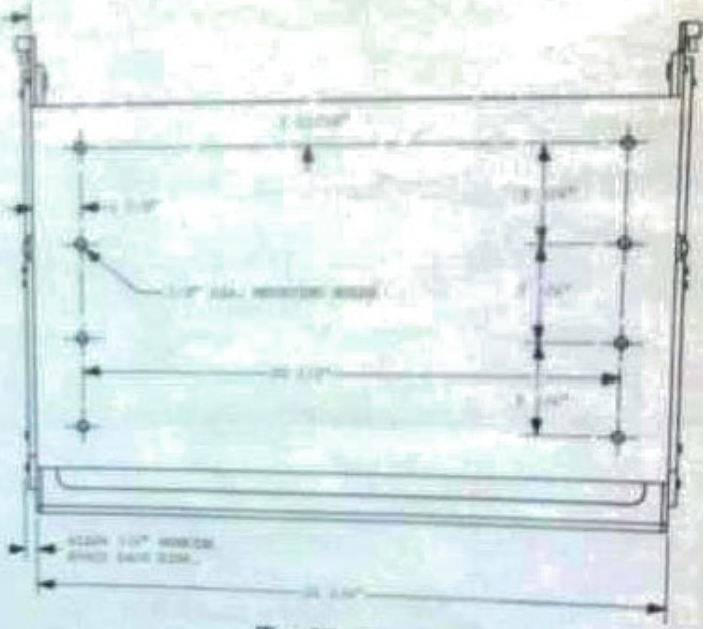
Kwikee Lectro-Matic Double Step

2500-8300

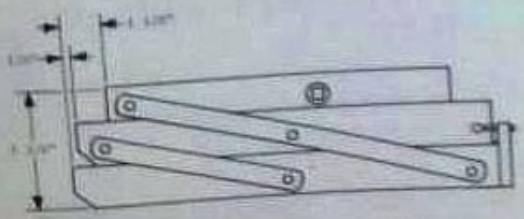


KWIKEE LECTRO-MATIC STEPS are designed to take the work out of entering or exiting from Motor Homes. No messy hands, no long step for the first man out, just open the door, step goes down; close the door, and step goes up.

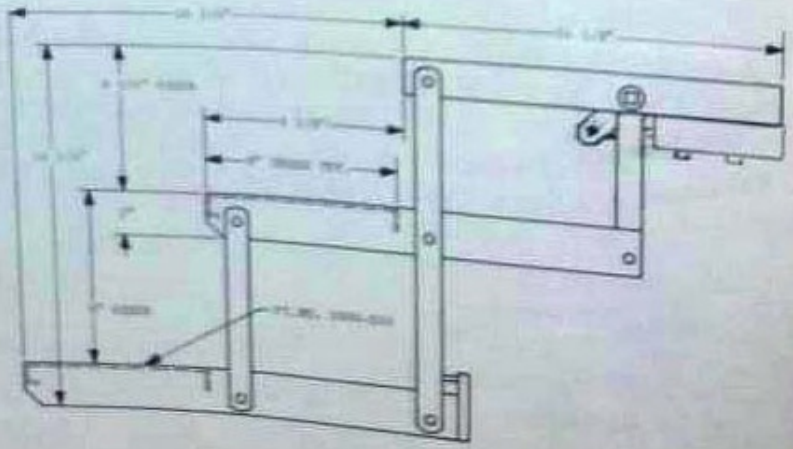
When in the down position, platform is lighted, and the anti-skid top provides for maximum safety.



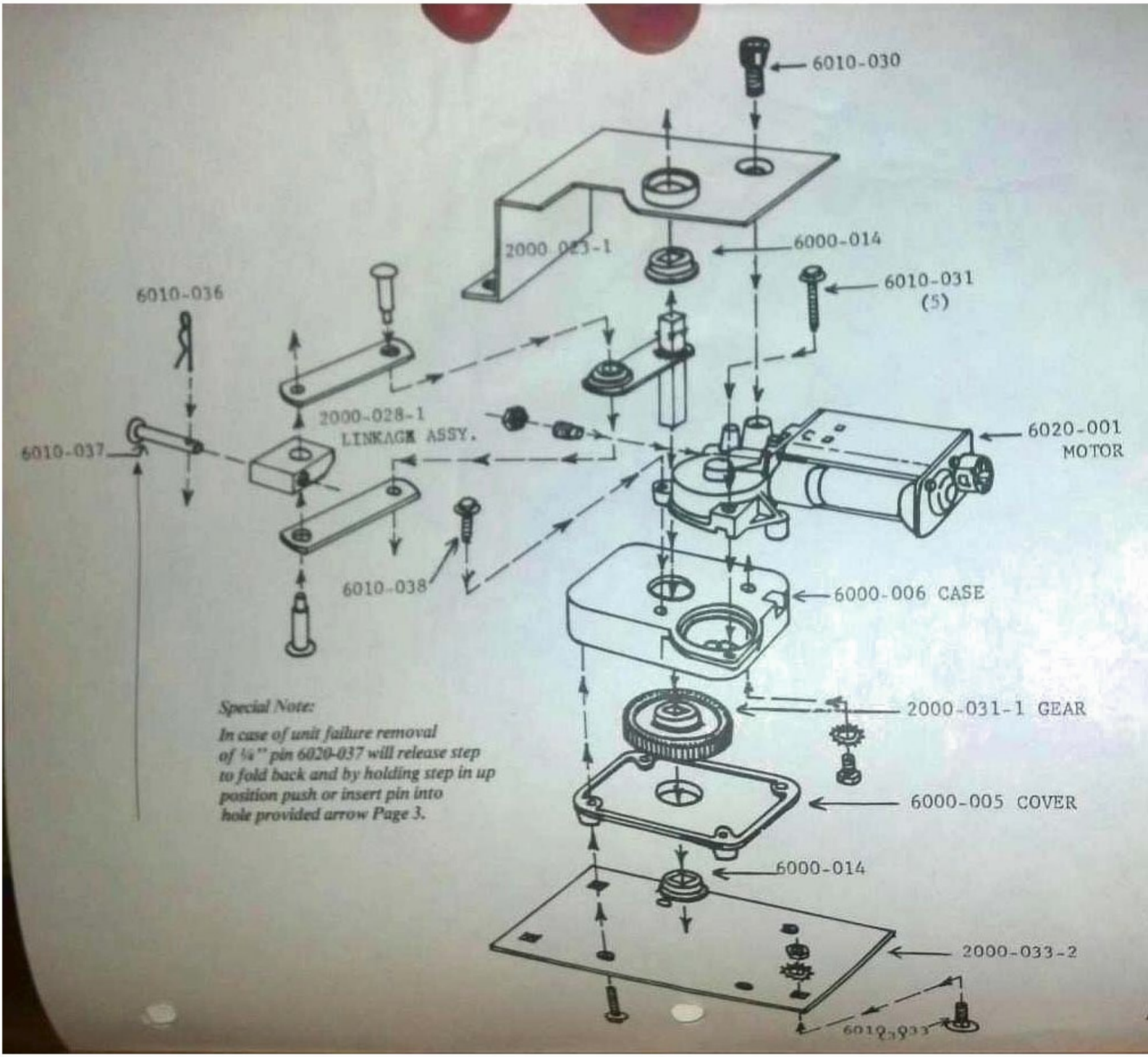
Top View



Side view—step retracted



Side view—step extended


6010-030
2000-023-1
6000-014
6010-031
(5)
6010-036
2000-028-1
LINKAGE ASSY.
6010-037
6020-001
MOTOR
6010-038
6000-006 CASE
2000-031-1 GEAR
6000-005 COVER
6000-014
2000-033-2
6010-033
Special Note:
In case of unit failure removal of ¼" pin 6020-037 will release step to fold back and by holding step in up position push or insert pin into hole provided arrow Page 3.

Test Procedure For Wiring

For Kwikee Electromatic Step With Electronic Control Unit No. 8300

IMPORTANT NOTES: (1) No other devices (heater, fan, burglar alarms, etc;) can be incorporated in the same circuit with control unit or step. This may cause the step or control unit to mal-function. (2) Be sure all wires are of proper gauges or heavier as specified on the reverse side of this sheet. (3) Make sure battery terminals and all wire connections are clean.

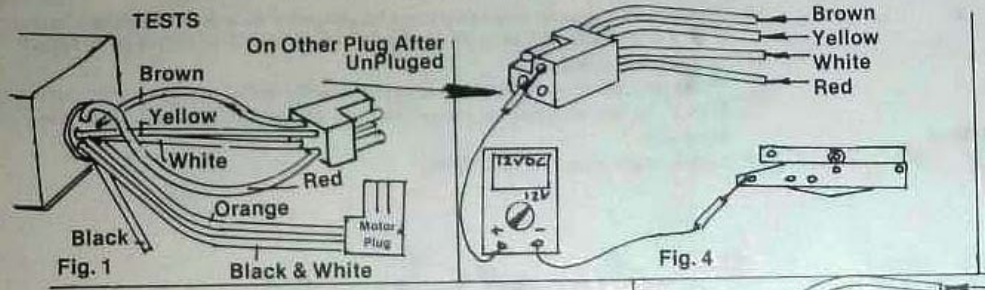


Fig. 1

Fig. 4

1. Unplug 4 wire plug from control unit, and 90° molded plug from motor. Then turn killswitch on for the remainder of test sequence. (Fig. 1)

2. First check power source with volt meter, white wire to step frame. Reading should be about 12V DC. This must be operative before further checks are made. (Fig. 2)

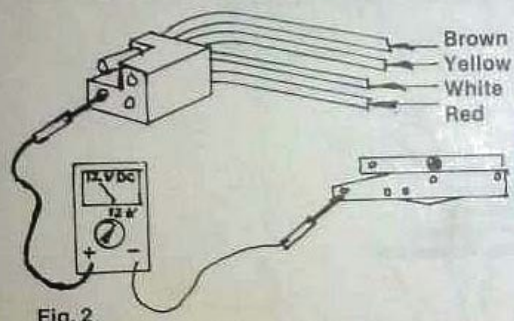


Fig. 2

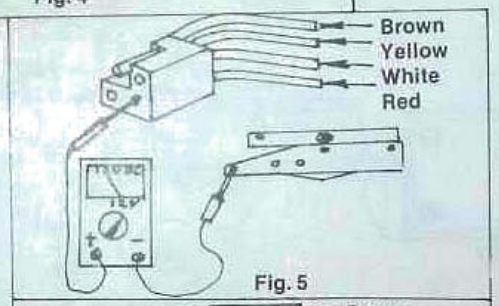


Fig. 5

3. To check door switch-check white wire to brown wire with Volt Meter. Reading should be about 12V DC with door open, and zero V DC with door closed. (Fig. 3)

4. To check ignition wire circuits, check yellow wire to step frame with Volt Meter, this should read about 12V DC, only when ignition switch is on, and zero V DC when ignition switch is off. (Fig. 4)

5. Red wire should read about 12V DC at all times. Check with Volt Meter from red wire to step frame. (Fig. 5)

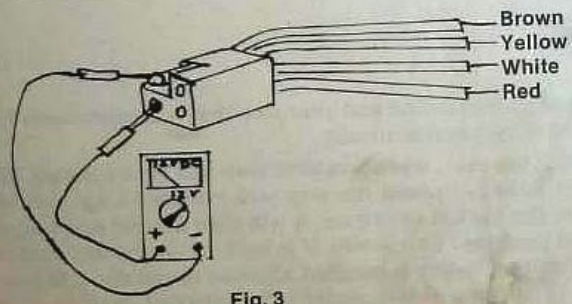


Fig. 3

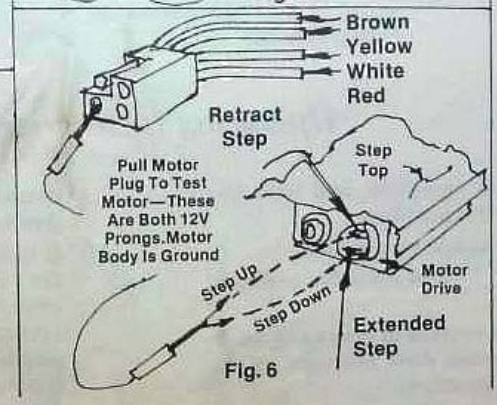


Fig. 6

6. To check motor (a) be sure hands are clear of step mechanism before proceeding. (b) be sure motor has a good ground connection to coach chassis. (c) Jump white wire to motor terminal closest to step top, step should retract (d) jump white wire to motor terminal farthest from step, top, step should extend. (Fig. 6)

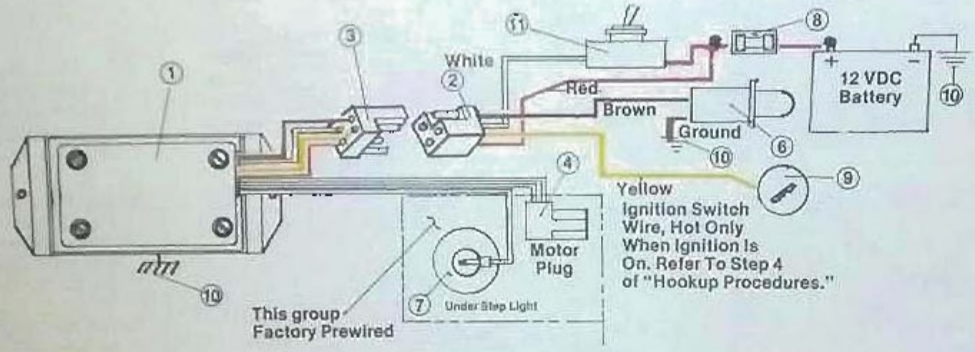
NOTE: DO NOT LEAVE JUMPERS HOOKED UP FOR MORE TIME THAN IT TAKES FOR THE STEP TO CYCLE.

If all of the above tests check out ok., and, step does not work when control unit is plugged in, control unit is most likely defective, and should be returned to factory for repair. This is an unlikely prospect, but, if it does, we give 24 hour service.

Parts List [illegible] Wiring Of Kwikee Lectro-Matic Step

IMPORTANT WIRE SIZE NOTE: The following listed wires must be 12 ga. minimum. When combined length exceeds 15 feet use 10 ga. wire—white wire, [illegible]ge and white/black m[illegible] wires and the red wire leading from the electronic control, joining th[illegible]ite wire between switch No. 11, and fuse No. 8, as shown in wiring [illegible]uits.

1. Electronic control unit No. 8300.
2. Plug No. 6020-002 white, brown, yellow, and red wires.
3. Plug No. 6020-003 white, brown, yellow, and red wires.
4. Motor plug No. 6020-030.
5. Motor No. 6020-001 or assembly No. 2000-029.
6. Automatic door switch No. 6020-015.
7. Understep courtesy light No. 6020-011.
8. 25-amp. fuse or circuit breaker (not supplied by Kwikee Ent. Inc.)
9. Ignition switch—wire connected to ignition switch must be hot only when switch is on.
10. Direct chassis ground note: step must be grounded by a No. 12 wire minimum. If step is not attached directly to chassis—A GOOD GROUND IS A MUST.
11. Kill switch No. 6020-010.
12. White wire 10-12 ga. must be connected directly to the positive battery terminal ONLY, by use of screw of clamp. See test procedures and important notes on other side.
13. Lectro-Matic Step No. 2500-8300.



Operating Instructions

1. After installation as shown above is complete, and with entrance door open, flip kill switch to ON position.
2. Close door, step should retract and lock in up position.
3. Open door, step should decend and lock in extended position with understep light on.
4. Flip kill switch off, and step should remain in down extended position with understep light off, when door is closed. (This procedure will also retain step in up position).
5. With kill switch off, step extended, with the entrance door closed, turn on ignition switch, the special (kill switch) override circuit will go into action and your step that was mistakenly left down will retract automatically.
6. If item 5 is the case, when you next stop and turn ignition off, then exit door is opened the step will remain in up position until you flip the kill switch on, it will then decend and lock in extended position. This is why it is both advisable and recommended that kill switch is installed adjacent to exit door, to place control or attitude of step under full control of persons using said exit or entry.
7. NOTE: when ignition switch remains on, step will always activate with door movement regardless of where kill switch is set.