



KWIKEE® #890
ELECTRIC STEP
OWNER'S MANUAL
(WINNEGABO)



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Introduction

This manual has been provided to assist with the identification, operation, maintenance and troubleshooting of any Kwikkee Electric Step that is equipped with a door switch, an override switch, control unit and a permanent magnet motor. It does not apply and should not be used as a reference to any other previous versions of a Kwikkee Electric Step.

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com/support) or by downloading the free LippertNOW app. The app is available on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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For additional support on this product, please visit: <https://support.lci1.com/kwikkee-steps>

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels. This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

WARNING

The “WARNING” symbol above is a sign that an installation procedure has a safety risk involved and may cause death or serious injury if not performed safely and within the parameters set forth in this manual. Always wear eye protection when performing this installation procedure. Other safety equipment to consider would be hearing protection, gloves, and possibly a full face shield, depending on the nature of the installation procedure.

WARNING

The coach **MUST** be supported per manufacturer's recommendations before working underneath. Failure to do so may result in death or serious injury.

WARNING

There is an electric shock hazard associated with this procedure. Disconnect power before working on this unit. Failure to follow all safety procedures and all procedures in this manual could cause serious injury or death.

CAUTION

Failure to follow safety procedures and procedures in this manual may result in damage to the step control, the motor and/or the coach wiring. Such damage may also result in voiding the warranty.

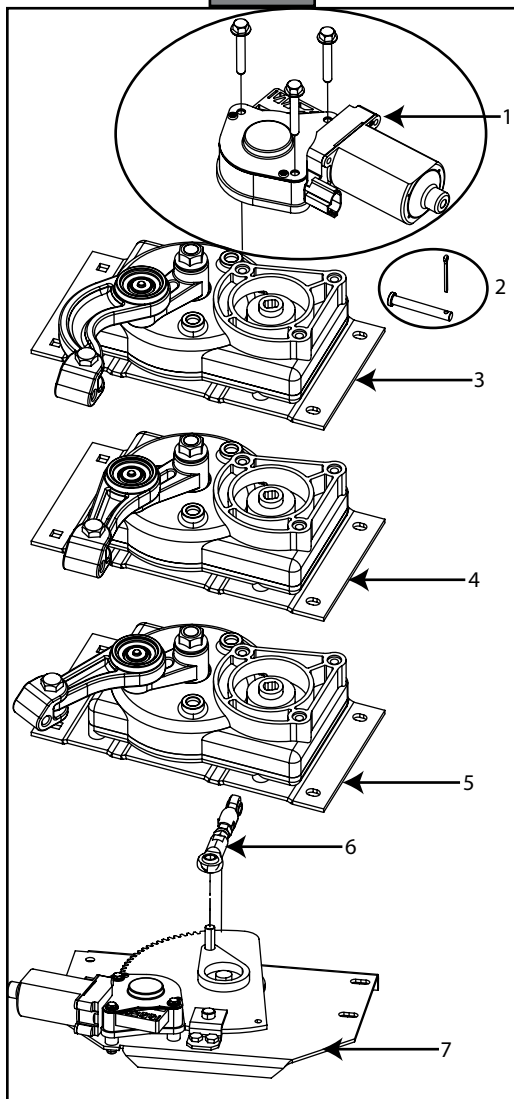
CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Motor Assembly Identification

NOTE: This information was obtained from Kwikiee® manual 1422282 Rev OE dated January 2009. This manual describes Kwikiee® electric steps manufactured for Winnebago from January 2005 to the present. This manual does not apply and should not be used as a reference to previous versions of a Kwikiee® electric step.

To determine replacement parts, refer to Figure 1 and Replacement Parts Charts 1-4 for your Series Step. Replacement part numbers for steps equipped with older style motor/gearbox are available online.

Fig. 1

Replacement Part Chart 1 —
Kits for Series Steps 22, 28A*, 30, 32, 33, 34, 35, 36, 38 and 40

Callout	Description	Part Number
1	Motor and Screws 214	676061
2	Cotter Pin and Clevis Pin	379178
3	Gear/Linkage 'A' Curved	379160
	Step Frame Only	
	Step Series number 22	-----
	Step Series number 28A	374923
	Step Series number 30	-----
	Step Series number 32	3722618
	Step Series number 33	-----
	Step Series number 34	3722864
	Step Series number 35	-----
	Step Series number 36	379412
	Step Series number 38	-----
	Step Series number 40	-----
	Step Light	379414

Replacement Part Chart 2 —
Kit for Series Step 23

Callout	Description	Part Number
1	Motor and Screws 214	379147
2	Cotter Pin and Clevis Pin	379178
3	Gear/Linkage 'A' Curved	379160
	Step Frame only	
	Step Series number 23	-----
	Step Light	379414

Replacement Part Chart 3 —
Kits for Series Steps 28, 31, 37 and 39

Callout	Description	Part Number
1	Motor and Screws 214	676061
2	Cotter Pin and Clevis Pin	379178
4	Gear/Linkage 'B' Straight	379161
	Step Frame only	
	Step Series number 28	3747457
	Step Series number 31	-----
	Step Series number 37	-----
	Step Series number 39	3724744
	Step Light	379414

Replacement Part Chart 4 — Kit for Series Step 26		
Callout	Description	Part Number
1	Motor and Screws 214	676061
2	Cotter Pin and Clevis Pin	379178
5	Gear/Linkage 'C' Straight 1101427 379162	379162
	Step Frame Only	
	Step Series number 26	-----
	Step Light	379414

Replacement Part Chart 5 — Kits for Series Steps 24 and 25		
Callout	Description	Part Number
1	Motor and Screws 214	676061
2	Cotter Pin and Clevis Pin	379178
6	Link/Assembly 24 / 25	369488
7	Motor Table 24 / 25	369529
	Step Frame Only	
	Step Series number 24	379411
	Step Series number 25	3658374
	Step Light	379414

Product Information

Steps with Control Unit

NOTE: An important change covered in this owner's manual is the "Step Lockout Switch" (previously called the "Power Switch"). The name changed because of a change of functionality from the former "Power Switch". The new control units are equipped with an ignition override system designed to prevent the vehicle from being driven with the step in the extended position (STEP LOCKOUT SWITCH IS IN THE 'OFF' POSITION), the door is closed, and the ignition is turned on, the ignition override system will engage and the step will automatically retract.

NOTE: Follow the instructions in this manual carefully. Failure to do so may result in damage to the step control, the motor and/or the vehicle wiring. Such damage may also result in voiding the warranty.

This manual has been provided to assist you with the identification, operation, maintenance, and troubleshooting of the Kwikkee® Electric Step equipped for use with a step lockout switch, control unit and permanent magnet motor (Fig. 3).

The control unit is essentially a current sensor as well as a switching device. When the motor assembly moves the step tread to its extended position, or stops moving because of an obstruction such as a curb or the binding of a damaged or bent step frame, the motor draws a larger amount of current. The control unit senses the larger current draw and shuts off the power to the motor.

All control units are equipped with an ignition override system. This system is designed so that the vehicle will not be driven with the step in the extended position. When the step is locked in the extended position (step lockout switch is in the off position), the door closed, and the ignition is turned on, the ignition override system will engage and the step will automatically retract.

The "Auto Extend" feature is another safety feature designed to extend the step when the door is opened for the first time after the vehicle ignition is turned off, even if the step lockout switch is turned off. When the ignition is switched on, the function of the step lockout switch is disabled and the step will always extend when the door is opened and retract when the door is closed. Some van steps use door-switch-only operation. When the door is opened the step extends and the step retracts when the door is closed.

WARNING

Failure to act in accordance with the following may result in death or serious personal injury. Read all operating instructions first before using your Kwikkee® Electric Step.

General Service Notes

Prior To Operation

If the power wire to the step is disconnected from its source and reconnected, a spark is common. This is caused by the momentary charging of the control unit and does not necessarily indicate the system is staying on, which would cause a drain on the battery.

To determine if a control unit is not shutting off:

1. Remove the 4-way connector to the chassis and the 2-way connector between the step motor and the control unit.
2. Place a voltmeter between the red and yellow motor wires at the 2-way connector from the control unit.
3. Reconnect the 4-way connector.
4. Turn the step lockout switch to the "On" position. If any voltage registers on the meter for more than five seconds, the control unit is not shutting off and may be defective.
5. When doing this test, switch the voltmeter leads back and forth between the red and yellow motor wires to make sure no voltage registers.
 - A. If any voltage registers, disconnect the 4-way connector to keep the step motor from overheating.
 - B. If zero voltage is present, the control unit has shut off and is normal.

If the step does not work or operates erratically (for example, extends part way and shuts off):

1. Check the vehicle battery.
 - A. Low supply voltage may cause erratic operation of the step.
 - B. Poor ground connections may also cause erratic operation of the step.
 - C. Check battery voltage and condition.
 - I. A battery in good condition and properly charged will have a no-load voltage of approximately 12.6 volts.
 - II. Check the voltage at the battery and at the 4-way connector at the control unit.
 - III. Make sure all battery and step control unit connections are clean and secure. Recharge or replace the battery as necessary and retest the step for proper operation.

The step may also operate erratically if it is operating directly from a converter and the converter output is not adequate or properly filtered for clean DC voltage. The converter **MUST** be capable of producing a minimum of 30 amps for proper step operation.

The step will not function if the ground to the control unit lost between the step control unit and the vehicle chassis (the long green ground wire) or between the vehicle battery and the ground (negative battery cable). Make sure the battery terminals and all wire connections are clean and tight. Verify that all wires meet the minimum requirements (Figs. 4-6).

WARNING

RISK OF FALL OR SERIOUS INJURY

This vehicle is equipped with a Lippert Automatic Electric Step. Turning the ignition switch to the "ON" position while the entry door is closed will cause the step to retract. Visually confirm that the step is fully extended prior to exiting the vehicle.

Fig. 2

 **WARNING | AVERTISSEMENT | ADVERTENCIA**

RISK OF FALL OR SERIOUS INJURY
RIESGO DE CAÍDA O DE LESIONES GRAVES
RISQUE DE CHUTE OU DE BLESSURE GRAVE

THIS VEHICLE IS EQUIPPED WITH A LIPPERT AUTOMATIC ELECTRIC STEP. TURNING THE IGNITION SWITCH TO THE "ON" POSITION WHILE THE ENTRY DOOR IS CLOSED WILL CAUSE THE STEP TO RETRACT. VISUALLY CONFIRM THAT THE STEP IS FULLY EXTENDED PRIOR TO EXITING THE VEHICLE.

ESTE VEHÍCULO CUENTA CON UN ESCALÓN ELÉCTRICO AUTOMÁTICO LIPPERT. SI GIRA EL INTERRUPTOR DE ENCENDIDO A LA POSICIÓN "ON" (ENCENDIDO) MIENTRAS LA PUERTA DE ENTRADA ESTÁ CERRADA, EL ESCALÓN SE RETRAERÁ. CONFIRME DE FORMA VISUAL QUE EL ESCALÓN ESTÉ BIEN EXTENDIDO ANTES DE SALIR DEL VEHÍCULO.

CE VÉHICULE EST ÉQUIPÉ D'UN ESCALIER AUTOMATIQUE LIPPERT. TOURNER LE COMMUTATEUR D'ALLUMAGE À LA POSITION « ON » ALORS QUE LA PORTE D'ENTRÉE EST FERMÉE ENTRAÎNERA LA RÉTRACTION DE L'ESCALIER. VÉRIFIER VISUELLEMENT QUE L'ESCALIER EST COMPLÈTEMENT DÉPLOYÉ AVANT DE SORTIR DU VÉHICULE.

 **LIPPERT**

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Operation

WARNING

If the vehicle is driven with the step in the extended position, there is the possibility of causing major damage to both the step and the coach. Always make sure that the step is fully retracted before traveling. If the step is left extended and strikes an obstruction while the vehicle is moving, major damage to both the step and the vehicle could result.

CAUTION

Stepping on a partially extended step can cause damage to the step frame. Do not hold the switch in for longer than it takes to either extend or retract the step or damage to the motor will result.

NOTE: If the yellow wire from the 4-way connector is not connected to an ignition power source, the ignition safety system will be inoperative and the step will remain in the extended position. In this case, the override switch **MUST** be turned off for the step to retract.

NOTE: If the yellow wire from the 4-way connector is not connected to an ignition power source, the step will not retract with the step in the override "On" position when the door is closed and the ignition is on.

Step with Control Unit (Normal/Auto Mode)

1. After the installation is complete and with the entrance door open, turn the step lockout switch to the ON position.

NOTE: Note: Some steps are not equipped with a step lockout switch. They are activated only with a door switch.

2. Close the door. The step should retract and lock in the UP position.
3. Open the door. The step should extend and lock in the DOWN position with the under step light illuminated.
4. The under step light operation is as follows:
 - A. The light is on when the step is extended.
 - B. The light is off when the step is retracted.
 - C. If the step lockout switch is on and the step is extended by opening the door and the door is left open, the light will turn off after five minutes.
 - D. The under step light is not available on all step models.
 - E. If the step lockout switch is off and the door is open, the light stays on continuously.

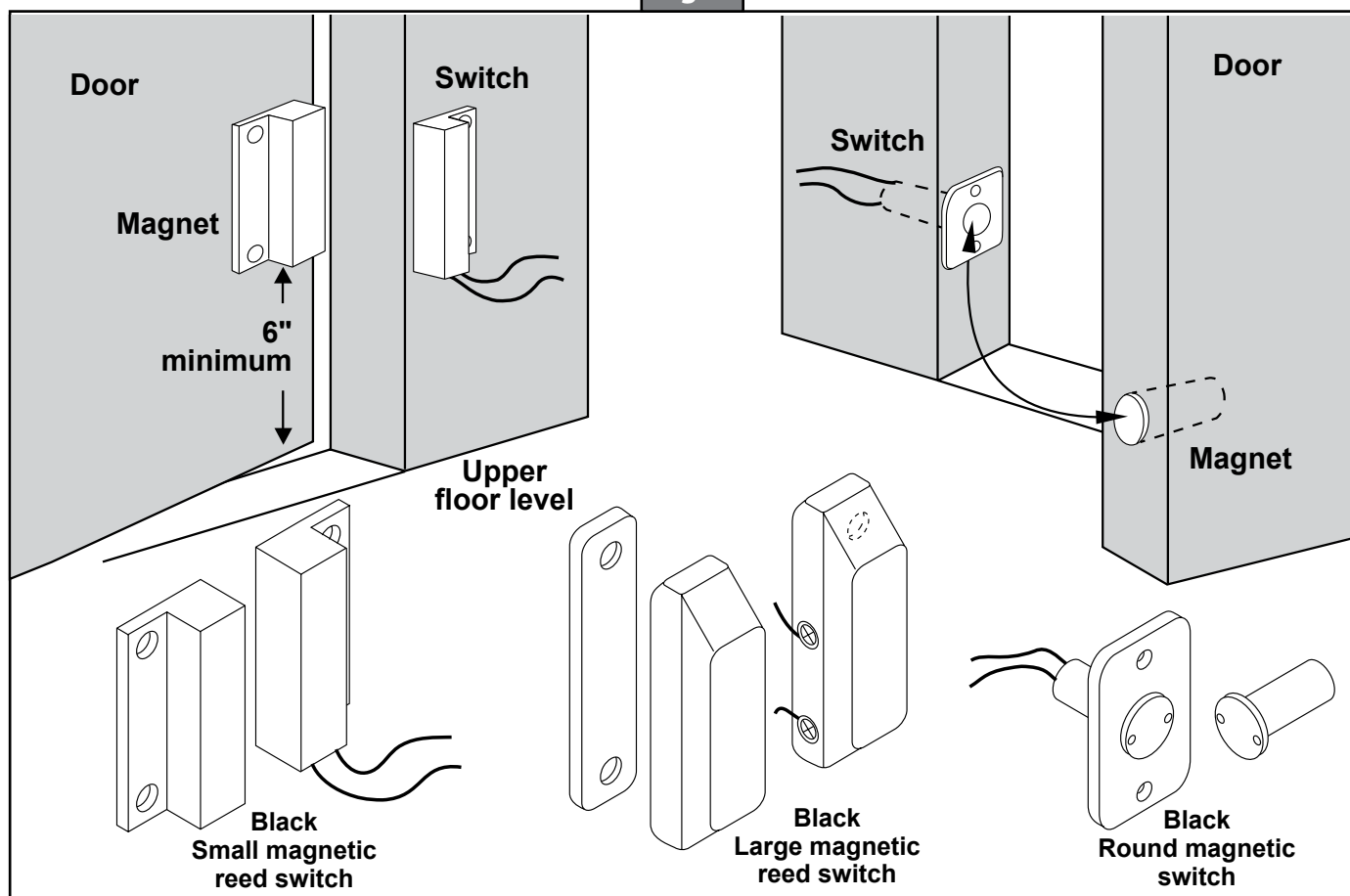
Step With Control Unit (Lock/Stationary Extended Mode)

1. If your step is equipped with a step lockout switch, turn it to the off position. The step should remain in the extended position with the under step light off when the door is closed.
2. With the step lockout switch turned off, the step extended, and the entrance door closed, turn the vehicle ignition on. The ignition override system will go into effect and the step will automatically retract.

NOTE: If the yellow wire from the 4-way connector is not connected to an ignition power source, the ignition safety system will be inoperative and the step will remain in the extended position. In this case, the step lockout switch must be turned on for the step to retract.

3. Turn the vehicle ignition off and open the door. The step will extend and lock in the DOWN position. This is the "Auto Extend" feature. When the vehicle ignition is turned on, the step will always activate with the door movement, regardless of the step lockout switch position.

Fig. 3



Replacement Parts — All Step Series			
Part	Description	Lippert Part Number	Lippert Part Number
Door Switches	Magnetic, small rectangular	374198*	379404
	3/4" core round	379400*	379405
	Magnetic, large rectangular	378043*	379406
	Magnetic, 3/8" core round	379393	378385
	Plated plunger switch	379388	379407
Control	Control with step lockout	379146	
Rocker Style Power Switch	For all fully automatic steps	379390	
Self-Center Rocker Switch	Steps NOT equipped with control unit	371010	
*Indicates a WHITE switch with a NORMALLY CLOSED status.			

Troubleshooting and Test Procedures

The Step Test Procedures are provided to troubleshoot and test all Kwikkee® Automatic Electric Step functions. The procedures are designed to initially check the basic functions of the step separately from the RV wiring to determine whether or not the step is malfunctioning. The procedures test various components of the step until the source of the malfunction is located. Using the procedures will shorten and reduce the time spent troubleshooting.

Read the entire procedure prior to testing.

Some portions of the test procedures require additional equipment. This equipment includes:

- Voltmeter
- Well-charged 12V DC automotive battery
- 4-way connector/pigtail Lippert® Part Number [369243](#).

Testing the Step Assembly

1. Inspect the step for visible damage that might restrict step operation.
2. Obtain a 4-way pigtail connector Lippert® Part Number [369243](#).
3. Disconnect 4-way connector on underside of step and connect the step-half of the connector to the 4-way connector pigtail (Figs. 4-6).
4. Set a fully charged 12 volts DC automotive battery beside the step.

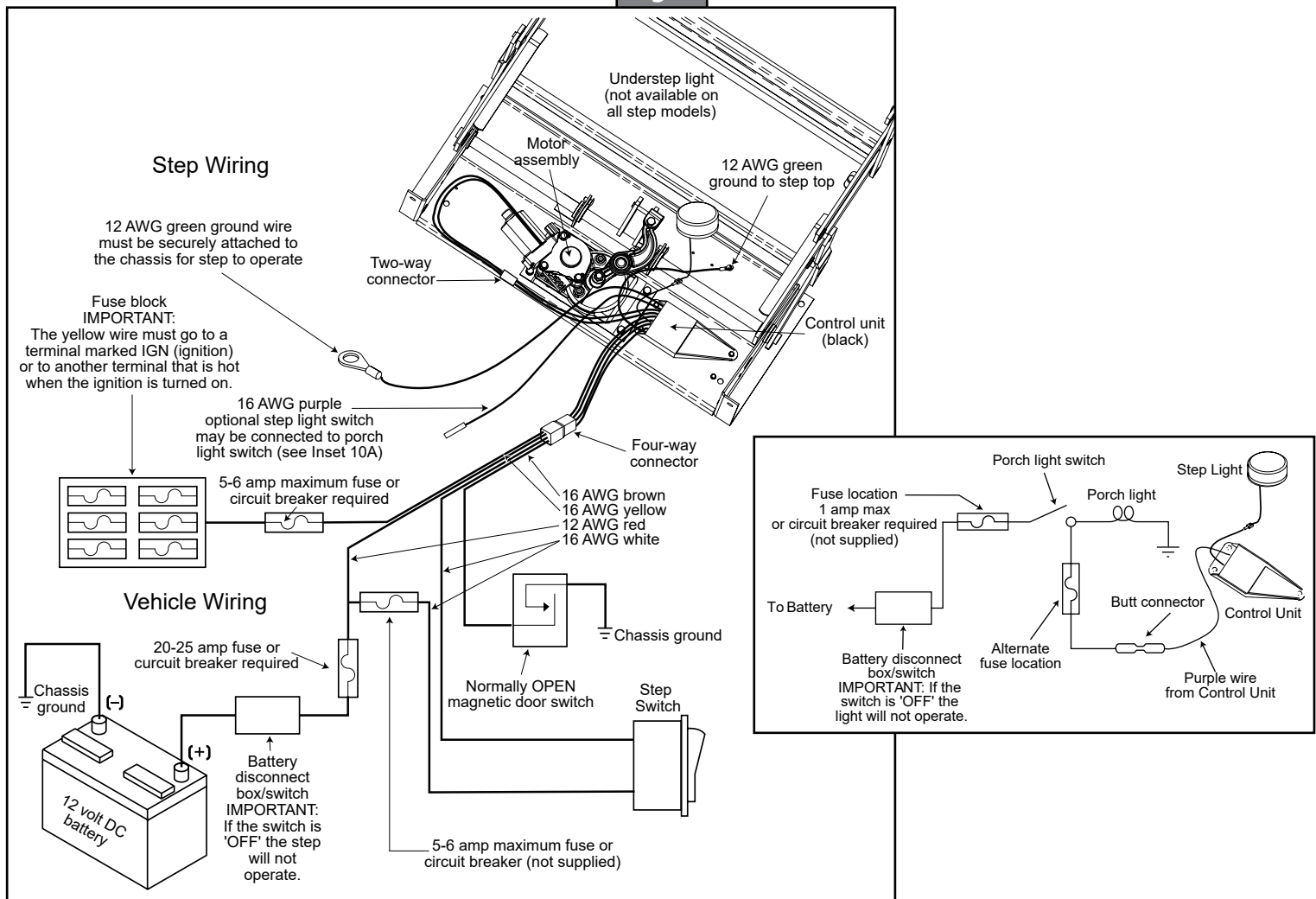
NOTE: Do not allow the battery terminals to come in contact with the step. Complete a ground for the step tests by connecting a 10 AWG wire from the negative battery terminal to the green ground wire of the control unit.

5. To supply power, attach the red wire from the pigtail to the positive battery terminal. The step will extend.
6. With the power and ground connections complete, all functions of the control unit can be checked at the four wires of the pigtail. The brown wire is the door switch, the white wire is the step lockout switch, and the yellow wire is the ignition override.
7. To retract the step, touch the brown wire to the negative battery terminal.
8. To extend the step, remove the brown wire from the negative battery terminal.
9. To test the ignition override feature, extend the step. With the step extended, connect the white wire to the positive battery terminal and attach the brown wire to the negative battery terminal. Next, touch the yellow wire to the positive battery terminal. The step should retract. Remove the brown wire and the step should extend.
10. If any of the step functions do not work, the source of the malfunction is either in the control unit and/or the motor. Proceed to Testing The Motor section.

If all of the step functions do work, the malfunction is either in the door switch, step lockout switch, or the vehicle wiring. Proceed to Testing The 4-Way Connector section.

To test the "Auto Extend" feature:

1. Touch the brown wire to the negative battery terminal to retract the step.
2. While holding the brown wire to the negative battery terminal, remove the yellow from the positive battery terminal.
3. Touch the white wire to the positive battery terminal. The step will stay retracted.
4. Now, remove the brown wire and the step should extend.
5. Next touch the brown wire to the negative battery terminal. The step should stay extended.

Fig. 4

Van Steps

If the van step is equipped with a splash cover:

1. Remove the cover to access motor assembly and control unit.
2. If step is locked in retracted (up) position and the plastic cover can not be removed, disassemble the step tread to access the plastic cover.
 - A. Remove the eight 1/4" - 20 x 1" long hex head bolts in tread side rails (connects tread and sliding blocks to side rail).
 - B. The tread will drop out of the way, making the plastic cover accessible.
 - C. Remove the cover.
 - D. Reassemble the tread after removing the cover.
 - E. Reinstall the cover after testing procedures and any necessary repairs are complete.
 - F. Fully extend the step to reinstall the cover. Make sure that the 4-way connector exits the notch in the plastic cover when reassembling.

Fig. 5

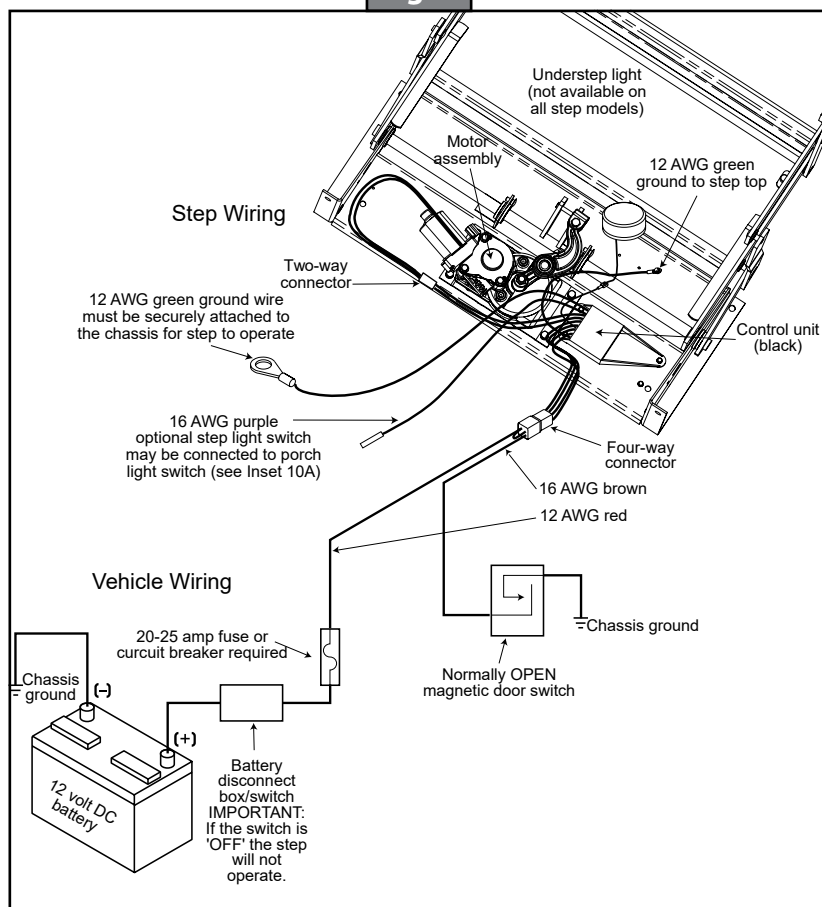
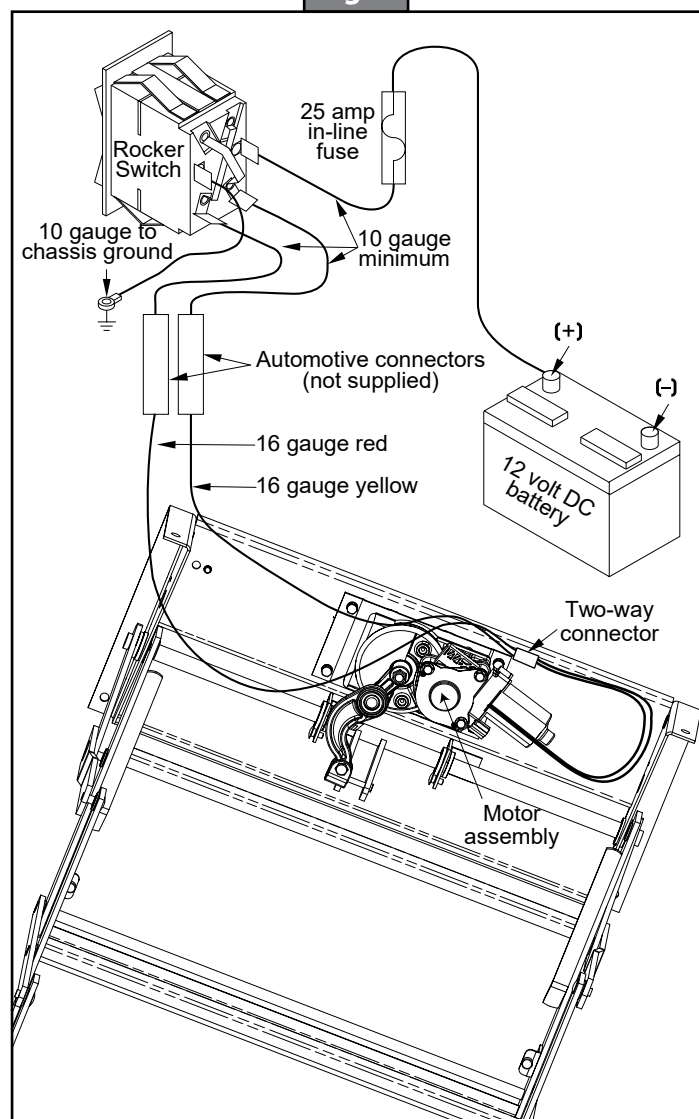


Fig. 6



WARNING

Step control wiring is only to be used for step and step light (provided with the step) functions. Do not splice or tap into any of the step wiring. Failure to heed this warning may result in failure of step control, which may result in loss of step function or fire in the step control.

Testing the Motor

If the step extends and retracts during this test, the condition of the step motor is good.

1. Disconnect the 2-way connector between the step motor and the control unit.
2. Connect the motor's red wire to the positive battery terminal and touch the motor's yellow wire to the negative battery terminal to extend the step.
3. To retract the step, reverse the connections.

NOTE: On steps with reverse polarity plug Lippert® Part Number [365884](#) reverse the red and yellow wire connections to perform this test.

Testing the 4-way Connector

NOTE: The step wiring circuit must be independent. No other device (i.e. alarm systems, step well lights, etc) can be connected to the step wiring circuit. Any device connected to the steps wiring can cause the step to malfunction and will void the warranty.

1. To check the main power source:
 - A. Connect a voltmeter between the red wire from the 4-way connector (vehicle half) and the ground terminal at the end of the control unit's green ground wire (Fig. 7). The reading should be a minimum of 12 volts DC.
 - B. If the voltage reading is low:
 - I. Check for a loose or corroded connection at the battery.
 - II. Check for low charge level on the battery.
 - III. Check for a poor ground.
 - C. If the voltage reading is zero volts:
 - I. Check the step fuse/circuit breaker
 - II. Check all connections.
 - III. Check the condition of the wiring between the battery and the plug, including the ground connection at the chassis.
2. To check the step switch:
 - A. Connect a voltmeter between the white wire from the 4-way connector (vehicle half) and the terminal at the end of the control unit's green ground wire (Fig. 8). The reading should be a minimum of 12 volts DC with the switch in one position, and zero volts DC with the switch in opposite position.

NOTE: Refer to vehicle OEM owner's manual (or OEM Requirements) which will provide the switch position of "on" or "off" for the step lock position.

- B. If the voltmeter reads 12 volts DC when the step switch is in the Automatic Mode position, there is a problem in the step switch circuit.
 - I. Check the 6 amp in-line fuse.
 - II. Check the step switch.
 - III. Check the condition of the circuit's wiring and terminal connections.

3. To check the door switch:
 - A. Connect a voltmeter between the red wire from the 4-way connector (vehicle half) and the brown in the same connector (Fig. 9). The voltage should be a minimum of 12 volts DC when the door is closed and zero volts when the door is open.
 - B. If the readings are incorrect, there is a problem with the switch.
 - C. Check the door switch and the condition of the circuit's wiring and terminal connections.
4. To check the ignition override system:
 - A. Connect a voltmeter between the yellow wire from the 4-way connector (vehicle half) and the ground terminal on the end of the control unit's green ground wire (Fig. 10).
 - B. The voltage reading should be approximately 12 volts DC when ignition is on and zero volts when ignition is off.
 - C. If the reading is zero volts when the ignition is on, check all terminal connections, wiring, and the vehicle's ignition fuse.
5. For steps equipped with door switch only operation:
 - A. Connect the white jumper wire from the vehicle half of the 4-way connector and the ground terminal at the end of the control unit's green ground wire (Fig. 11).
 - B. Make sure to use the terminal with only the white wire.
 - C. The reading should be zero volts DC. If the voltage reading is more, the white wire is connected to 12 volts and should be cut.

Fig. 9

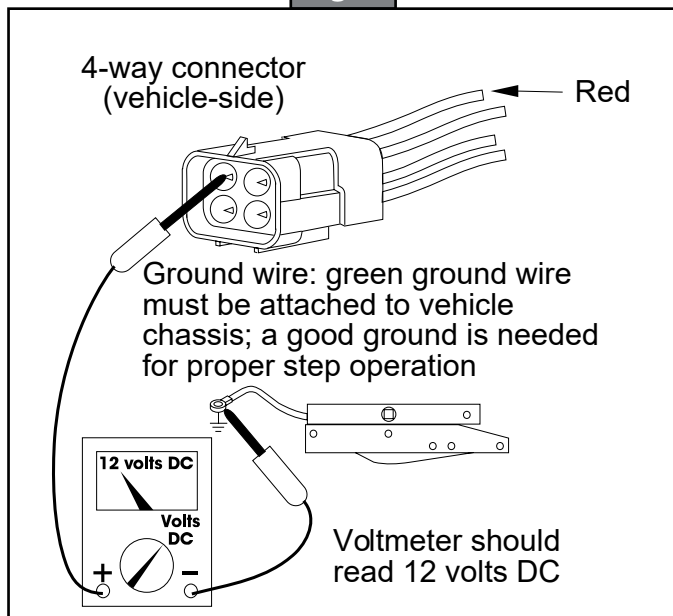


Fig. 7

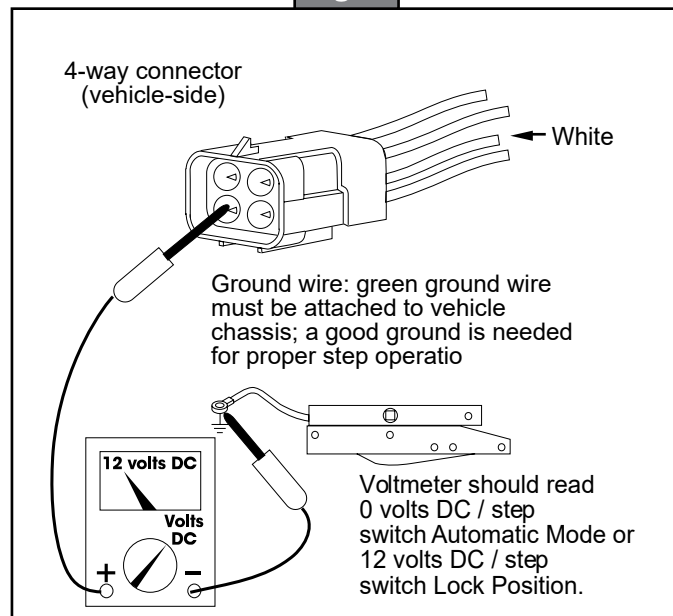


Fig. 8

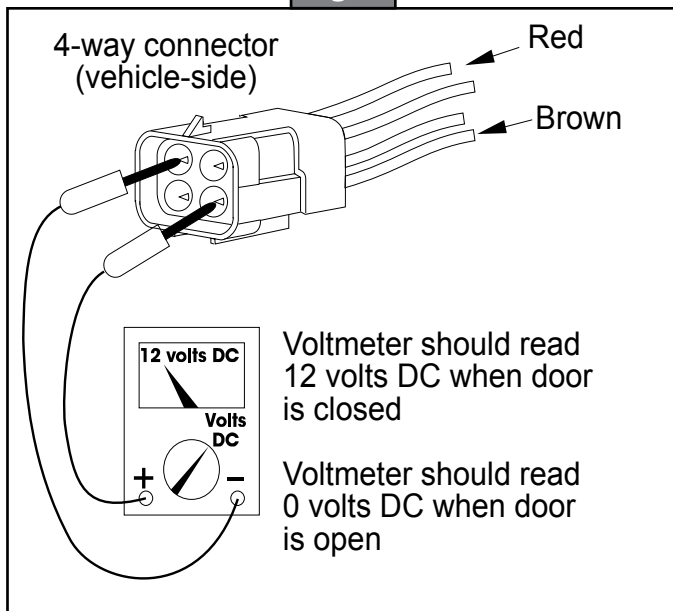


Fig. 10

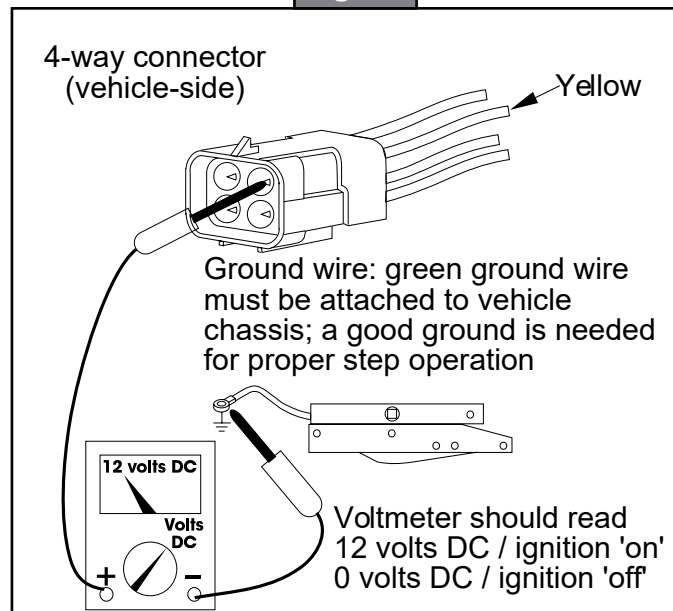
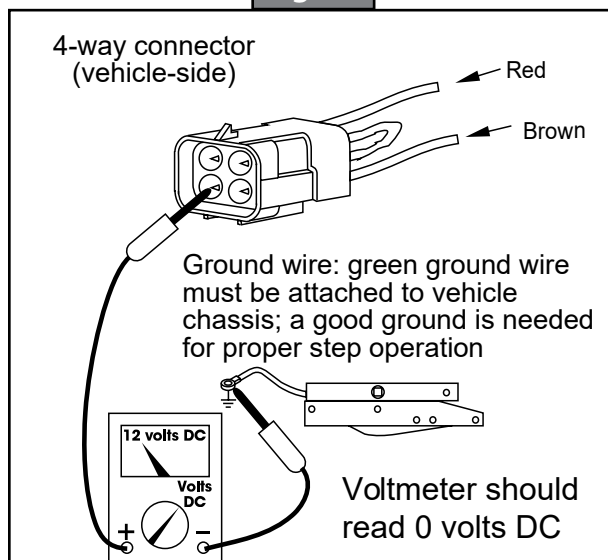


Fig. 11



Maintenance

Step Assembly Lubrication

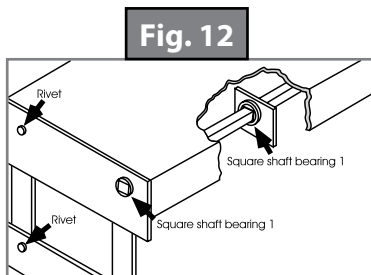
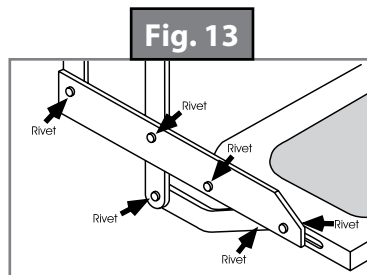
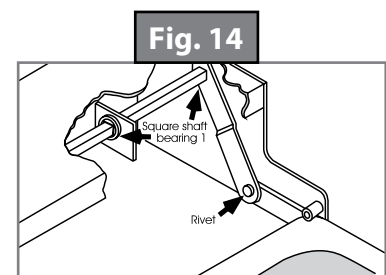
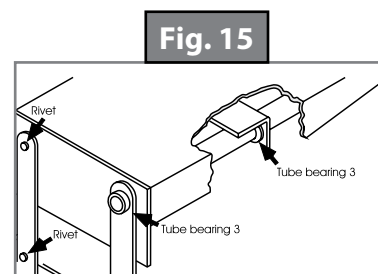
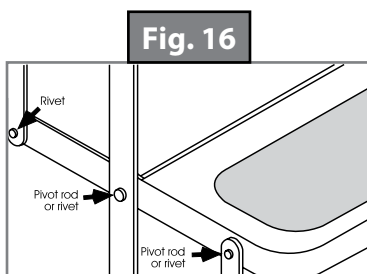
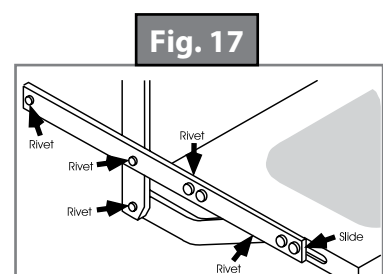
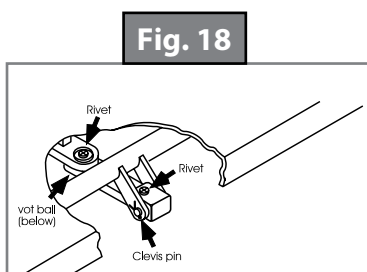
Clean all mud, salt, and road grime from the step before lubricating. Lubricate all moving parts (bearings, pivot points, slides, clevis pin, and drive linkage ball) every 30 days with a good quality moisture and heat resistant penetrating grease. KwikLube™ Spray Grease is specially formulated to lubricate Kwikkee® Electric Steps and is recommended for lubricating all moving parts. See Figures 12-18 for lubrication locations.

NOTE: Silicone lubricants and WD-40® are not recommended for use. They evaporate and dry the mating surfaces, which leaves them vulnerable to the elements.

NOTE: Figures 12-18 are to be used for general reference purposes only. Some figures may not pertain to your particular step model.

1. For square shaft bearings, lubricate around the outside and under head of bearing (Fig. 12 and Fig. 14).
2. On step models equipped with plastic cover, this cover will have to be removed to lubricate center bearings. Lubricate bearings under the cover every 90 days (Fig. 15).
3. Lubricate around the bushing-in-bushings (Fig. 15).
4. Maintain clean, dry electrical connections at the 2-way and 4-way connectors and any butt connections leading from the 4-way connector to the vehicle. A small dab of dielectric grease at the connections, and replacing corroded butt connections with heat shrink type crimp style automotive connectors, will help maintain a good electrical source for the step.

NOTE: Figures are to be used for general reference purposes only. Some may not pertain to your particular step model.



Maintenance In a Salt Environment

To maintain step finish when the step is exposed to a salt environment for extended periods of time, routinely spray step with fresh water.

Adjusting Cam Stops

⚠ WARNING

If the cam stops are not properly adjusted the step may not extend fully to the locked-out position. Using a step with loose or out-of-adjustment cam stops may cause damage to the motor assembly and/or the drive linkage.

NOTE: The adjustment of cam stops applies to 24, 25, 27 28A*, 32, 34, 35, 36, 38, and 40 Series Steps.

Kwiee® Steps are fitted with adjustable cam stops on the step frame that help lock the step in the "out" position, creating a firm stepping platform. The cam is adjusted at the factory, but may fall out of adjustment and need to be tightened due to the rigors of shipping, installation, and normal use. When the cam stops are out of adjustment, the step may feel loose or "mushy" when stepped on. The cam stops are located under the step top on the 28A*, 32, 36, and 38 Series Steps, and on the bottom tread side rail on the 24, 25, 27, and 40 Series Steps. There is one stop on each side of the step.

⚠ CAUTION

When working under the step, be sure that the step cannot be activated and that nothing can get caught in the step mechanism.

1. Loosen the stops so they move freely and retract the step.
2. Extend the step fully to its locked, extended position. Make sure that the motor assembly linkage rests against the gear case (Fig. 19). Repeat if needed until the motor assembly locks in the extended position.
3. Push the stops against the leg and tighten securely (Fig. 20). Make sure that both stops are tightened and that they rest securely against the leg.
4. Retract and fully extend the step. Check the motor assembly to make sure that it is locked all the way out, and that both stops are secure against the legs. Repeat steps 3 and 4 if needed to properly adjust the stops.
5. Push on the front edge of the step tread. If the step seems loose, repeat steps 2-4. The stops may not be properly adjusted so that they rest tightly against the leg.

Fig. 19

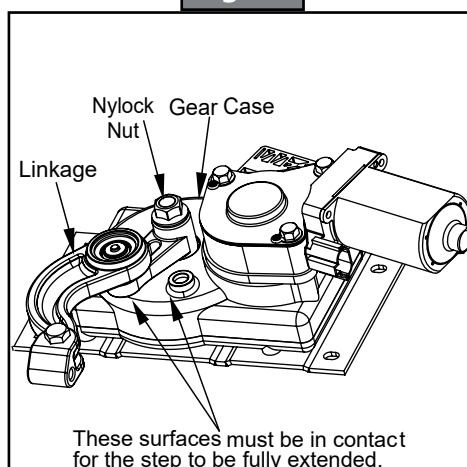
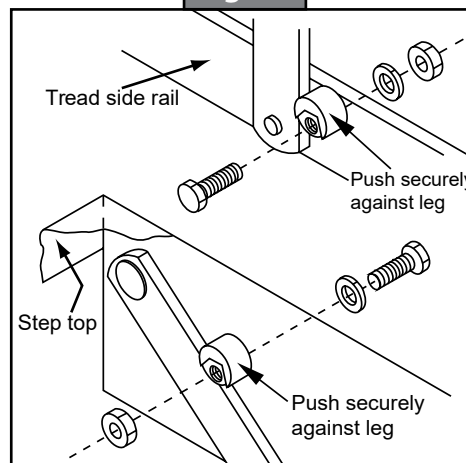


Fig. 20





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