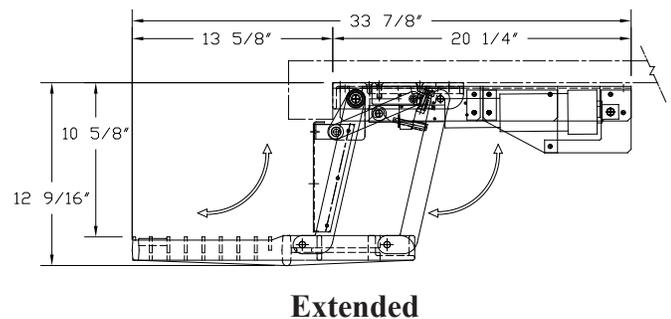
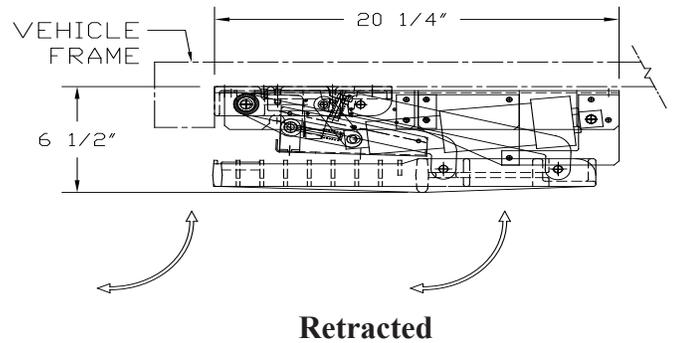
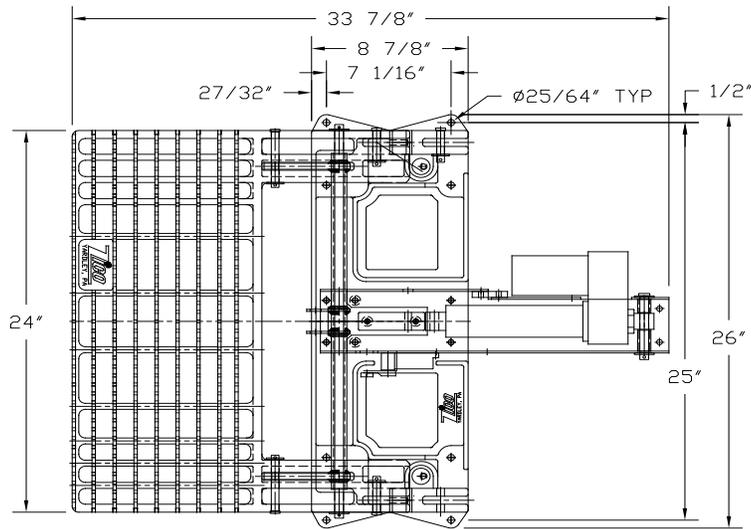


**QUIC-STEP™ RETRACTABLE VEHICLE STEP  
MODEL VS-24-11  
PARTS AND INSTRUCTION MANUAL**



Designed specifically for use on fire and emergency vehicles. May be retrofitted onto existing apparatus.

Cast aluminum step plate 24" wide x 10-3/4" deep with a non-skid surface to provide traction and safety.



Powered by a single 12-volt electric actuator. Includes a patent pending in-line locking mechanism to hold the extended step rigidly in place.

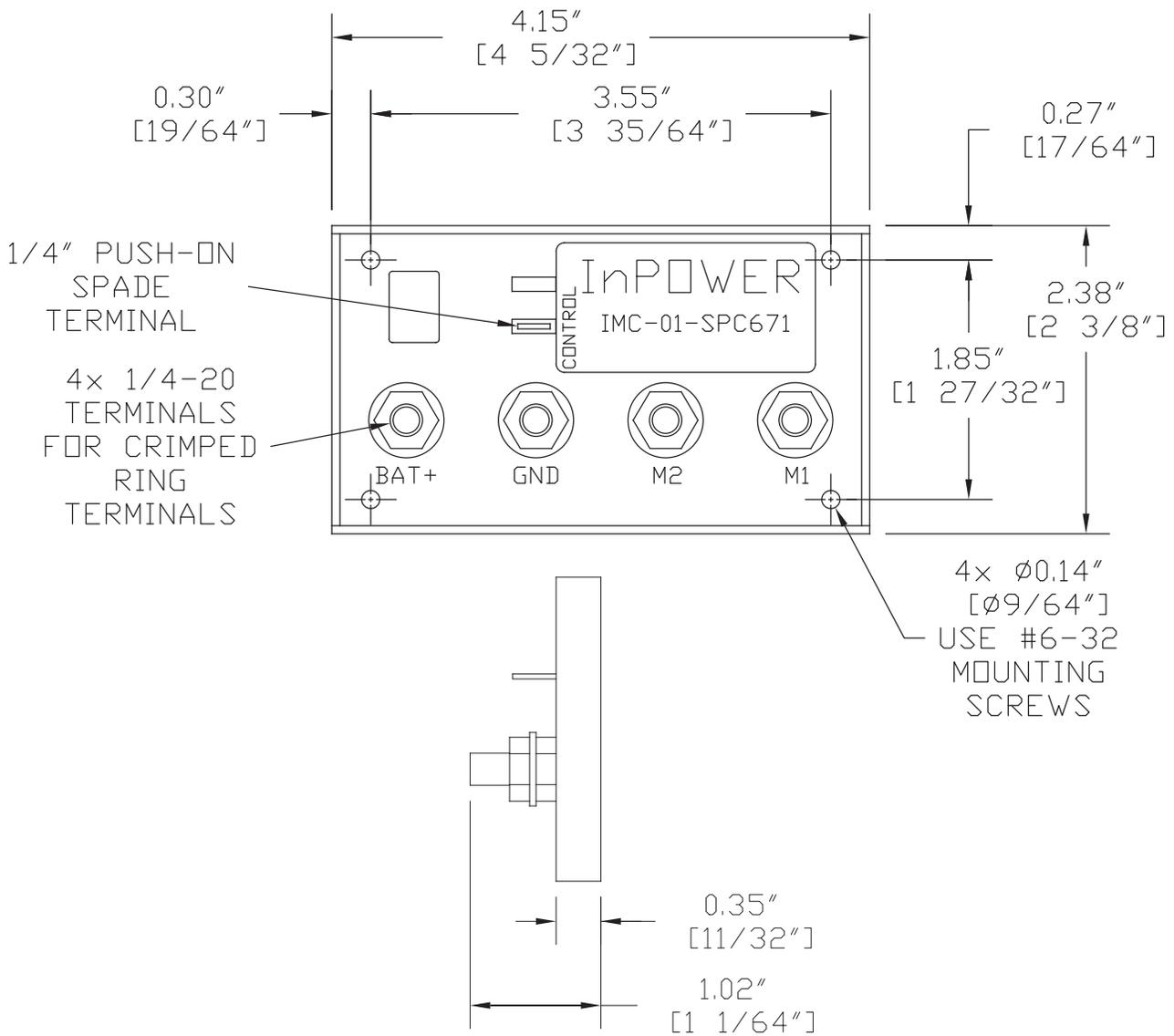
Step may be wired into door interlock system to automatically extend with door opening and retract with door closing.

Meets NFPA 1901-09 requirements for slip resistance and static load.

MODEL	DESCRIPTION	WT./@ IN LBS.
VS-24-11	Retractable Vehicle Step	71.0

# Mounting Details

FIGURE 1 - MOTOR CONTROLLER



**Mount in weather-tight location**

CHART FOR N.C. SWITCH

DOOR	SWITCH	ACTUATOR POL		ACTUATOR	STEP
OPEN	CLOSED	M1 +	M2 -	EXTEND	GO DOWN
CLOSED	OPEN	M1 -	M2 +	RETRACT	GO UP

NOTE: REVERSE ACTUATOR MOTOR POLARITY ON INPOWER MODULE (M1 & M2) IF DOOR SWITCH IS A N.O. SWITCH

CONTROL LOGIC

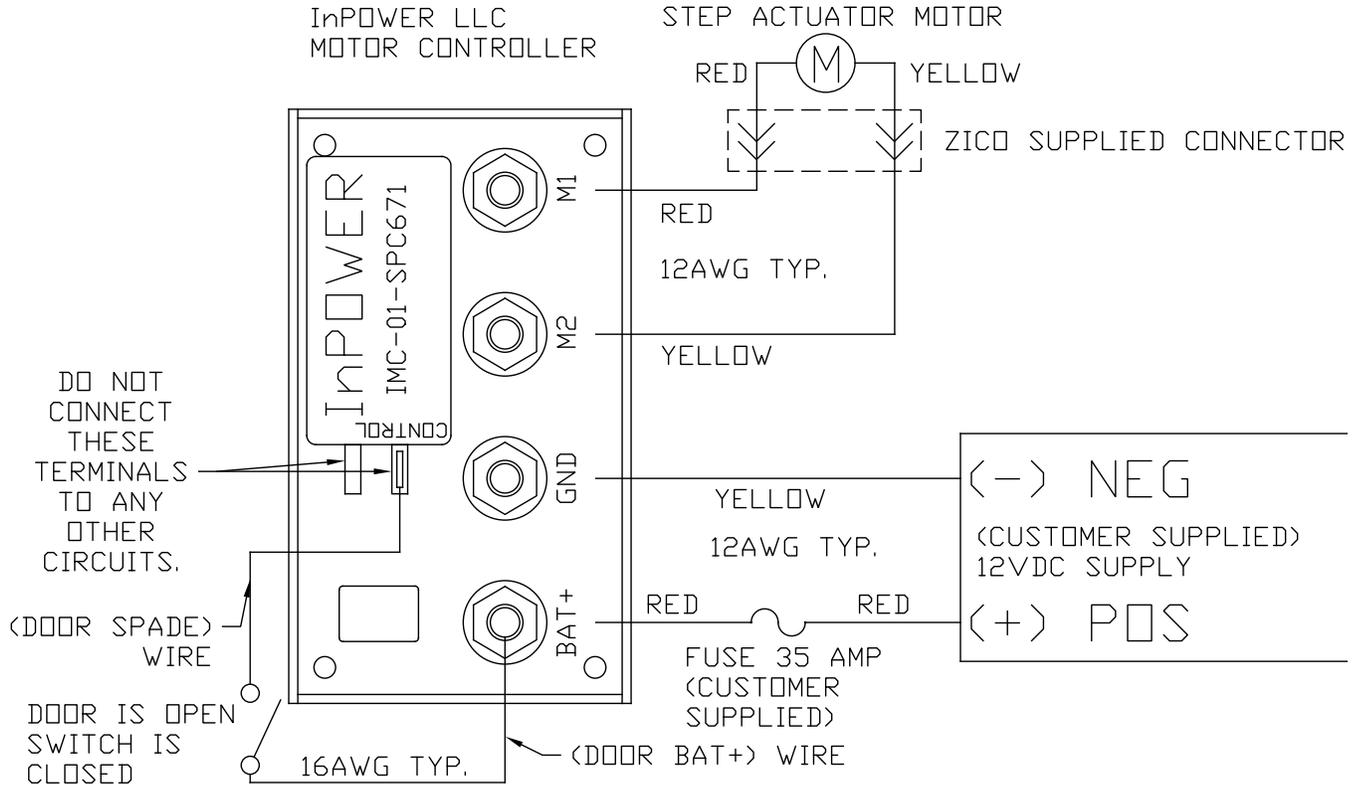


FIGURE 2 - FIELD WIRING DIAGRAM

WARNING

ELECTRICAL SHOCK  
OR  
CRUSHING INJURY

DISCONNECT FROM POWER  
BEFORE SERVICING

Failure to do so could result  
in serious injury or death

**Note:** Switch and electrical panel should be mounted in waterproof compartments. Once all electrical connections are complete and system has been tested, protect connections with a weather proofer like liquid tape.

**MODE OF OPERATION**

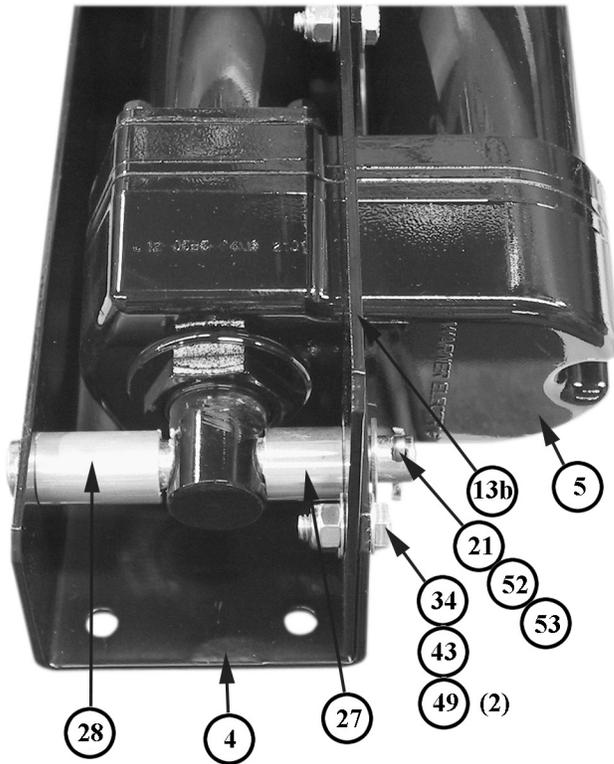
- PROVIDE POWER TO AUTOSTEP

**EXTEND MODE:**

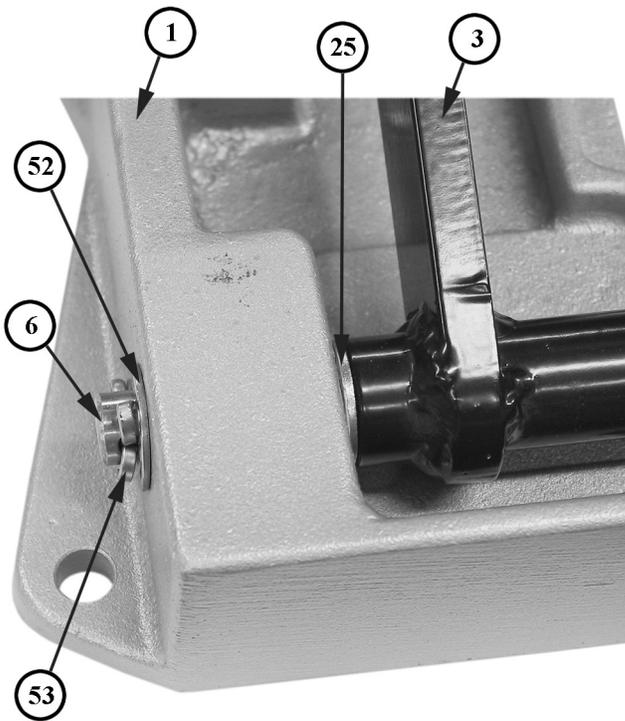
- STEP WILL AUTOMATICALLY EXTEND AS SOON AS THE DOOR IS OPENED.
- STEP WILL REMAIN EXTENDED AS LONG AS DOOR REMAINS OPEN.

**RETRACTED MODE:**

- STEP WILL AUTOMATICALLY RETRACT AS SOON AS THE DOOR IS CLOSED.
- STEP WILL REMAIN RETRACTED AS LONG AS DOOR REMAINS CLOSED.



**FIGURE 3 - ACTUATOR**

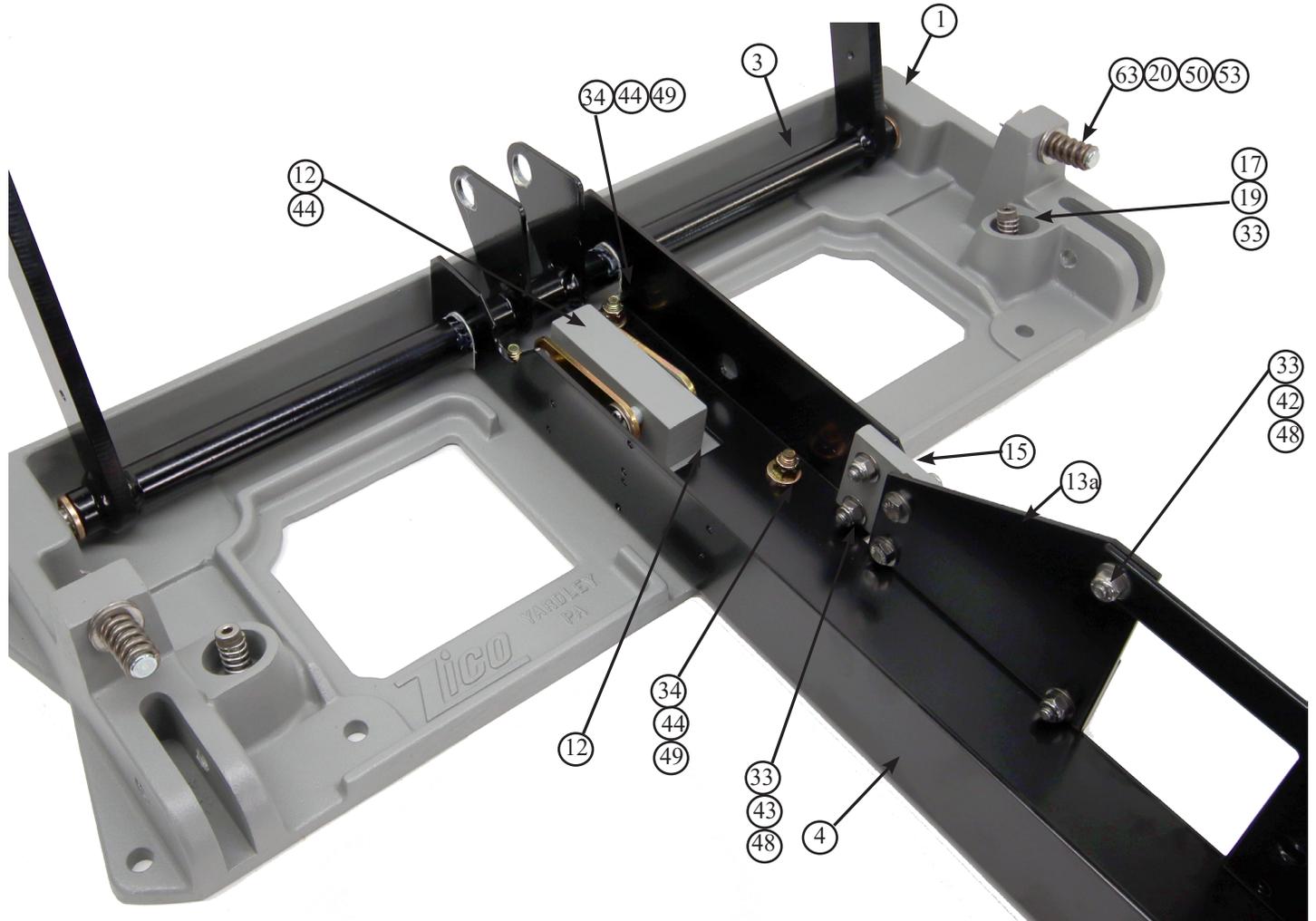


**FIGURE 4 - TORQUE TUBE**

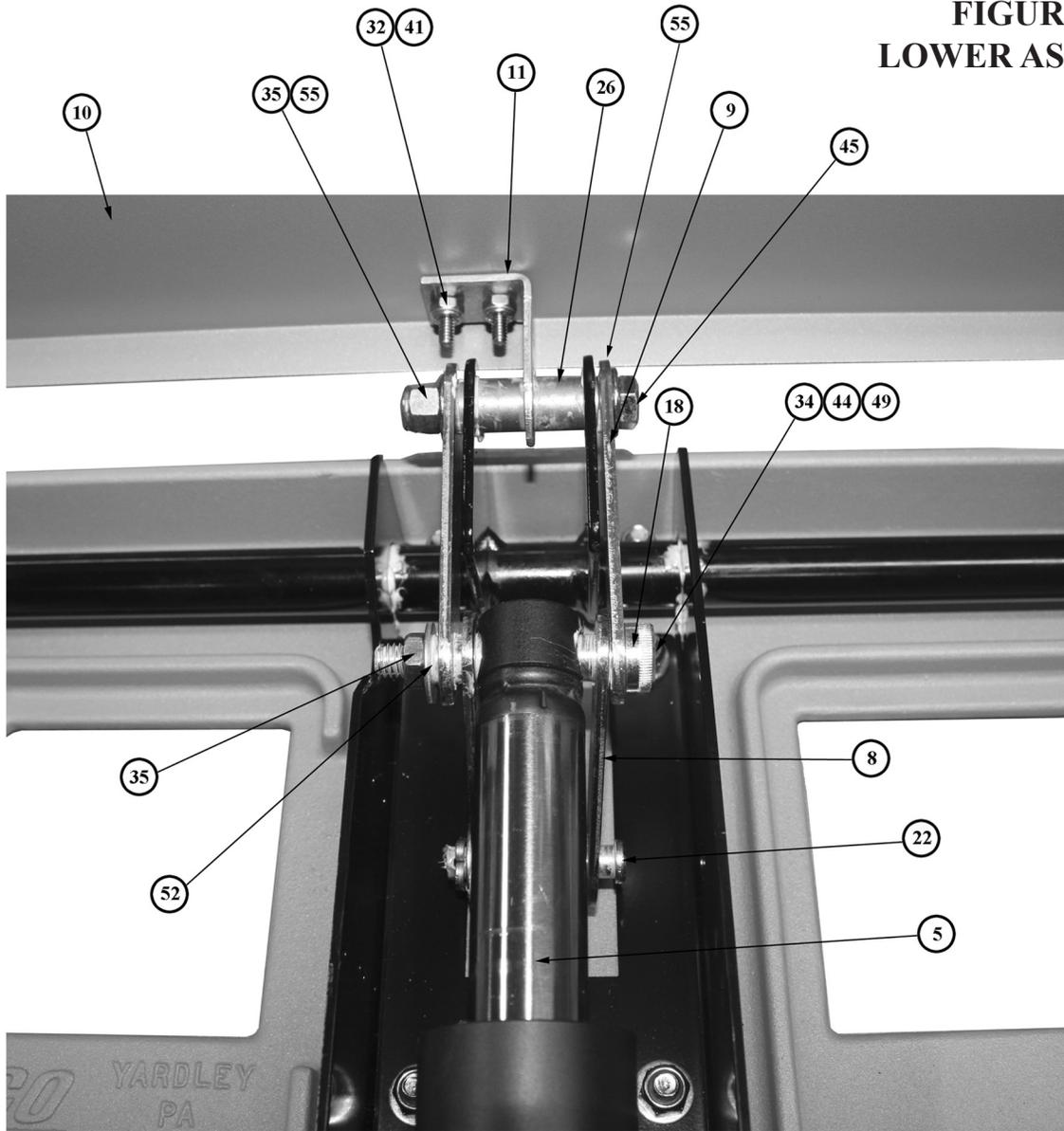
**CHART 1**

ITEM	PART NO.	DESCRIPTION	QTY.
1	3094-005-101	BASE CASTING	1
2	3094-005-103	STEP CASTING	1
3	3094-005-105	TORQUE TUBE WELDMENT	1
4	3094-005-133	ACTUATOR ATTACH. BRACKET	1
5	3094-005-113	LINEAR ACTUATOR	1
6	3094-005-115	SHAFT, 1/2ø x 24"	1
7	3094-005-117	SLAVE ARM	2
8	3094-005-119	SHORT LINK	2
9	3094-005-121	LONG LINK	2
10	3094-005-123	KICK PANEL	1
11	3094-005-125	KICK PANEL BRACKET	1
12	3094-005-135	MOUNTING BLOCK, LINKAGE	1
13a	3094-005-137	STIFFENING PLATE A	1
13b	3094-005-138	STIFFENING PLATE B	1
15	3094-005-143	SPACER PLATE	1
17	9110-313116	SHOULDER SCREW, 5/16" Dia., 1" Lg, 1/4-20 Thd, S/S	2
18	9010-315032	SHOULDER SCREW, 1/2" Dia., 2" Lg, 3/8-16 Thd, ZPS	1
19	3094-005-180	SPRING BUMPER, STOW	2
20	9080-003136	CLEVIS PIN, 5/16 x 2-1/4	2
21	9080-005064	CLEVIS PIN, 1/2ø x 4	1
22	9080-003730	CLEVIS PIN, 3/8 x 1-7/8	1
24	9080-004332	CLEVIS PIN, 7/16 x 2	4
25	3094-005-182	BUSHING SHAFT, .500 ID x 5/8 OD, .1 FL, BRONZE	2
26	3094-005-184	SLEEVE, 3/8 ID x 5/8 OD x 1.625 LG., SS	1
27	3094-005-186	SPACER, .75 OD, .781 LG. x .083 WALL, ALUM. TBG.	1
28	3094-005-188	SPACER, .75 OD x 1.25 LG. x .083 WALL, ALUM. TBG.	1
30	9080-004356	CLEVIS PIN, 7/16 x 3-1/2	2
32	9113-171900	HEX NUT, 10-24, ESNA LOCKNUT S/S	8
33	9113-172500	HEX NUT, 1/4-20, ESNA LOCKNUT S/S	10
34	9018-173100	HEX NUT, 5/16-18, ESNA LOCKNUT GR. 8	6
35	9018-173700	HEX NUT, 3/8-16, ESNA LOCKNUT GR. 8	1
36	9112-203700	HEX NUT, 3/8-16, JAM S/S	1
41	9110-221912	SCREW, #10-24 x 3/4, PHIL. PAN HD. S/S	8
42	9110-102512	SCREW, 1/4-20 x 3/4, HEX HD. S/S	4
43	9110-102516	SCREW, 1/4-20 x 1, HEX HD. S/S	4
44	9018-363116	SCREW, 5/16-18 x 1, FLAT HD. SOCKET GR. 8	6
45	9018-103740	SCREW, 3/8-16 x 2-1/2, HEX HD. GR. 8	1
47	9114-101900	WASHER #10 NOM S/S	8
48	9114-112500	WASHER, 1/4ø NOM. S/S	16
49	9014-183100	WASHER, 5/16ø NOM. Extra THK, Yellow Zinc	6
50	9014-113700	WASHER, 3/8ø NOM.	8
51	9114-114300	WASHER, 7/16ø NOM S/S	6
52	9114-105000	WASHER, 1/2ø NOM S/S	4
53	9170-001212	COTTER PIN, 1/8 x 3/4 S/S	11
54	9110-363112	SCREW, 5/16-18 x 3/4, FLAT HD. SOCKET S/S	2
55	9014-133700	WASHER, 3/8ø NOM. GR. 8	2
58	3094-005-131	INPOWER MODULE	1
60	0000-000-112	SERIAL NUMBER LABEL	1
61	9120-101103	DRIVE SCREW #4 x 3/16 TYPE U	2
62	3094-005-190	WARNING LABEL, ELECTRICAL SHOCK	1
63	3094-030-141	SPRING BUMPER DEPLOY	2

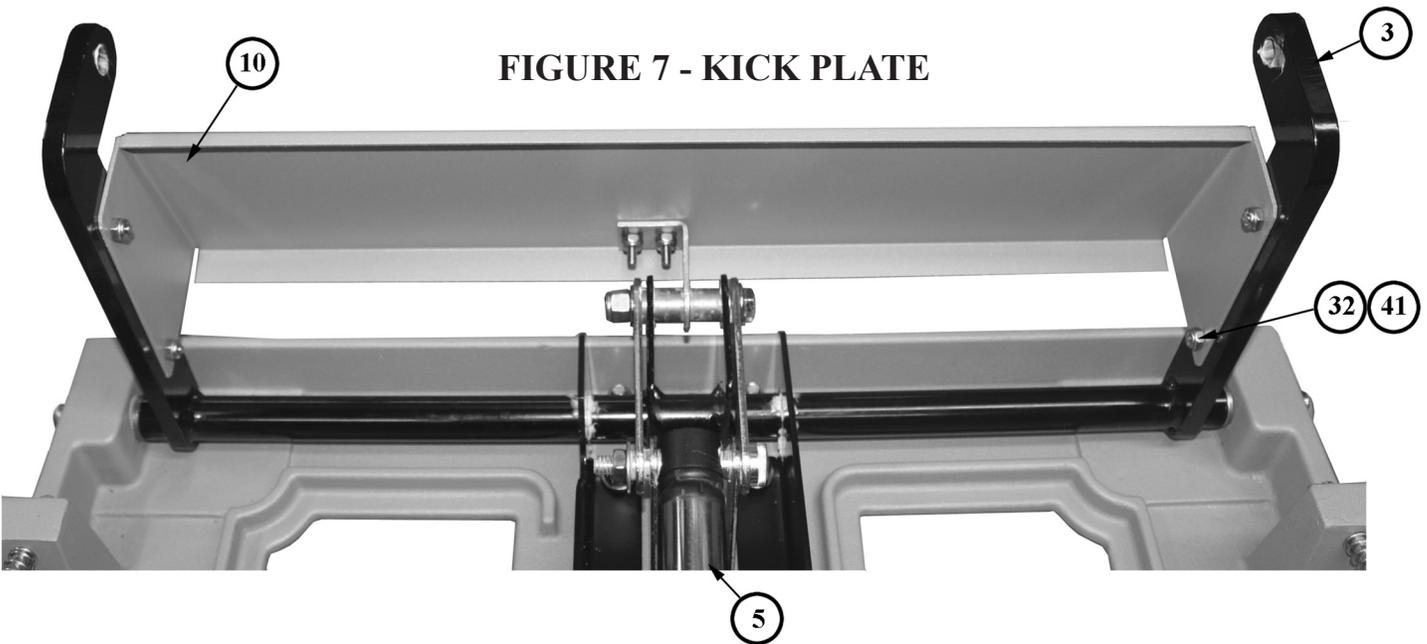
**FIGURE 5 -  
ACTUATOR RETAINER BRACKET**

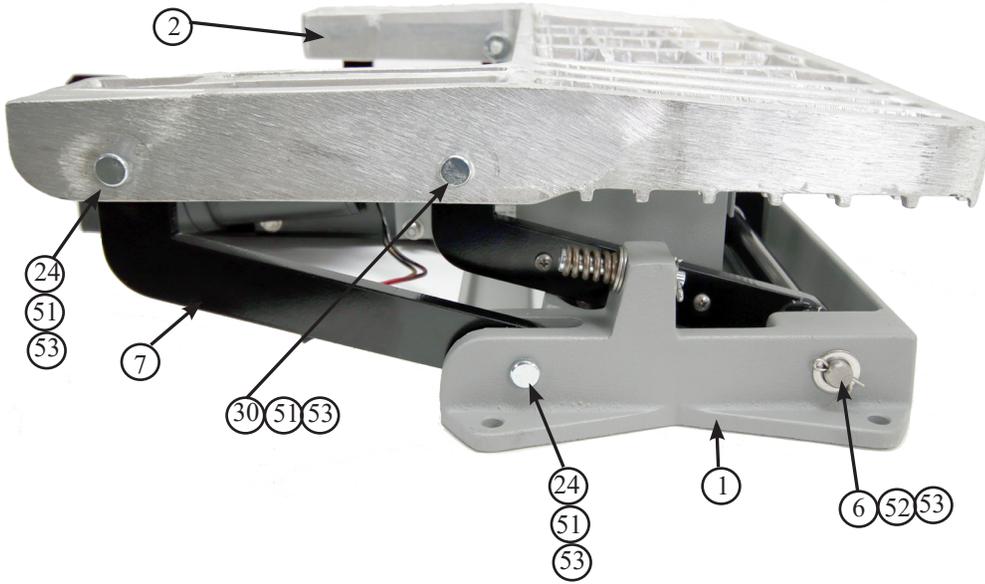


**FIGURE 6 -  
LOWER ASSEMBLY**

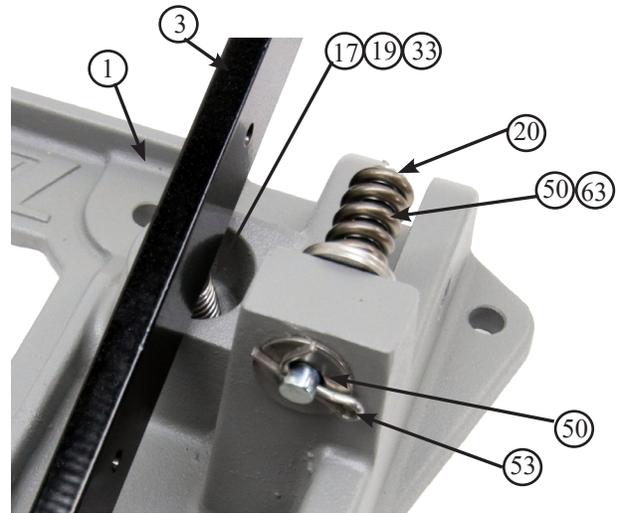


**FIGURE 7 - KICK PLATE**



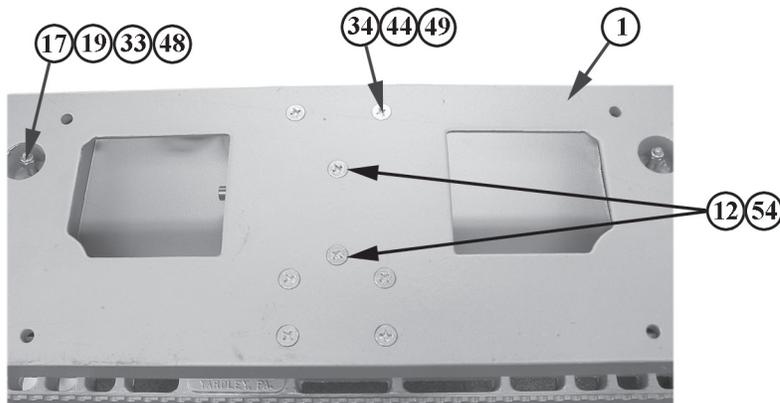


**FIGURE 8 -  
SIDE VIEW  
(upside down)**

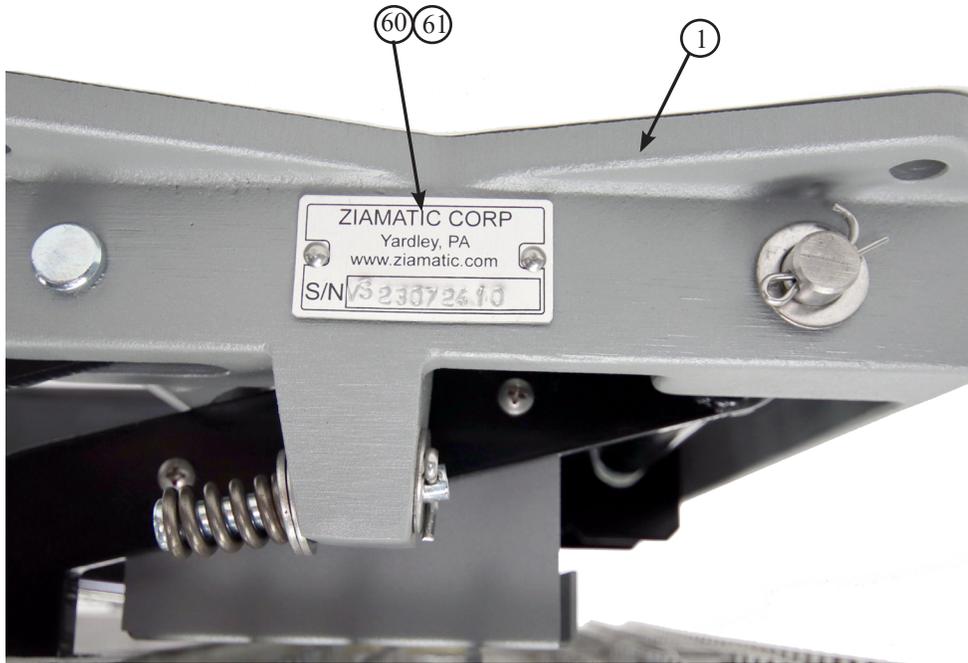


**FIGURE 9 - SPRINGS**

**FIGURE 10 - TOPSIDE OF BASE**



## SERIAL NUMBER



**FIGURE 11 - SERIAL NUMBER LABEL**

### **Mounting to Apparatus**

- A. A 7-1/16" center to center hole pattern is provided in the side flanges of the base casting. Additional holes may be added as needed.
- B. 3/8" diameter mounting hardware, a minimum of four, is required.
- C. The apparatus structure that the step is mounted to must be strong enough to support 500 lbs. on the extended step.

### **Maintenance**

- A. Semi-Annually or at Scheduled Apparatus Lube Service
  - 1. Visually inspect step for excess dirt build-up and debris.
  - 2. Lubricate all joints and pivots with CRC Stor & Lube long-term lubricant and rust preventative #03032. Excess lubrication should be wiped off.
  - 3. Electric Actuator - We suggest the exposed shaft be cleaned and sprayed with WD40 or a similar light, moisture-repelling silicone type lubricant.
- B. Pressure Washing

**Do not operate pressure washer around or near the electric actuators.** Excessive pressure may allow soap and water to blow past the seal, damaging the actuator.

# WARRANTY REGISTRATION

PLEASE MAIL OR FAX A COPY TO ZICO TO REGISTER YOUR UNIT

FIRE DEPARTMENT NAME: \_\_\_\_\_ CONTACT PERSON: \_\_\_\_\_

PHONE NO. \_\_\_\_\_ FAX NO. \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_ P.O. BOX: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

UNIT MODEL NO.: \_\_\_\_\_

SERIAL NO. ON UNIT: (SEE PAGE 8 FOR LOCATION) \_\_\_\_\_

INSTALLED ON: (VEHICLE MFG.) \_\_\_\_\_ DELIVERED: (DATE) \_\_\_\_\_

WAS UNIT INSTALLED ON: \_\_\_\_\_ NEW VEHICLE

\_\_\_\_\_ RETROFITTED ONTO EXISTING VEHICLE

WHERE DID YOU HEAR ABOUT OUR PRODUCT?

\_\_\_\_\_ MAGAZINE AD (SPECIFY) \_\_\_\_\_

\_\_\_\_\_ DEALER (SPECIFY) \_\_\_\_\_

\_\_\_\_\_ VEHICLE MFG. (SPECIFY) \_\_\_\_\_

\_\_\_\_\_ ANOTHER DEPARTMENT (SPECIFY) \_\_\_\_\_

\_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

Fax: (215)493-1401

Email: sales@ziamatic.com

Mail to:  
Ziamatic Corp.  
Warranty Reg.  
PO Box 337  
Yardley, Pa 19067-8337

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## Notes

# Notes



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[www.ziamatic.com](http://www.ziamatic.com)

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