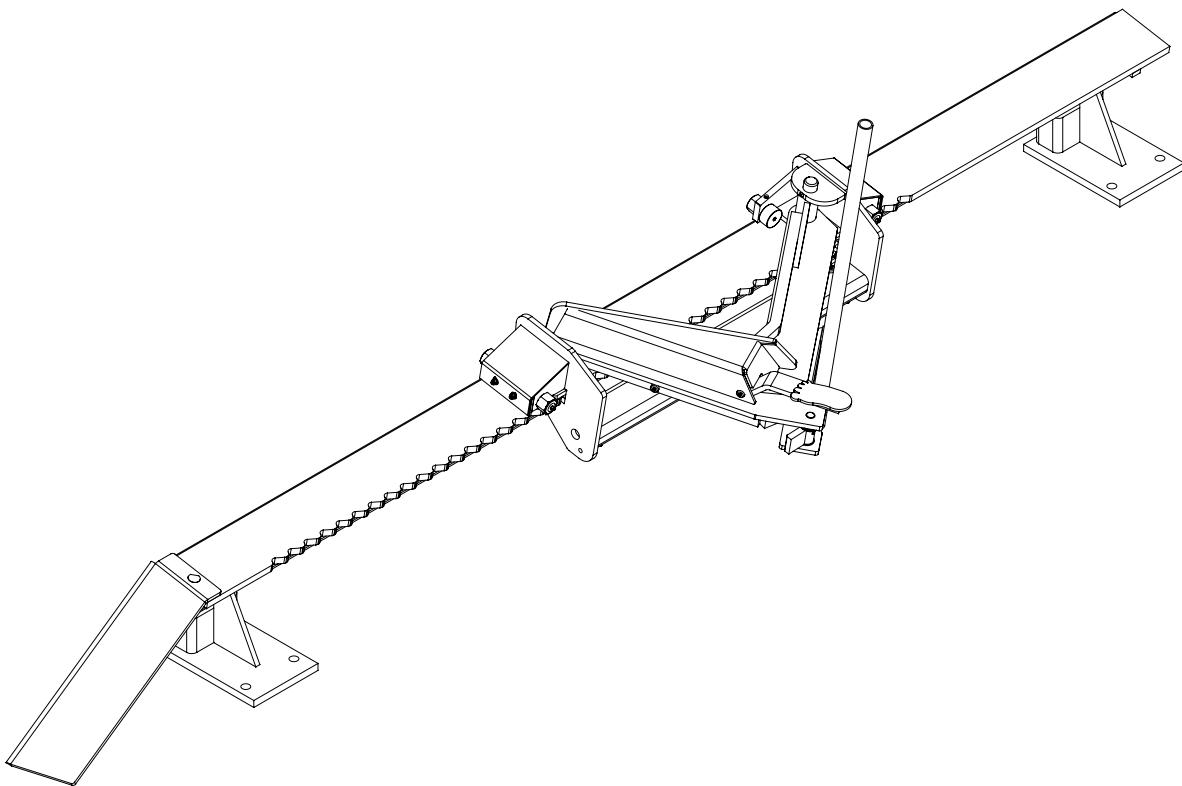


Manual Wheel Restraint

Surface Mounted



This manual applies to Manual Wheel Restraints manufactured beginning December 2010 with the serial number 61000001 and higher

WARNING

Do not install, operate or service this product unless you have read and understand the Safety Practices, Warnings, and Installation and Operating Instructions contained in this manual. Failure to do so could result in death or serious injury.

User's Manual

Installation, Operations, Maintenance and Parts

Part No. 6008740B

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INTRODUCTION

Welcome, and thank you for buying this wheel restraint from 4Front Engineered Solutions, Inc.

This User's Manual contains information that you need to safely install, operate and maintain the wheel restraint. It also contains a complete parts list and information about ordering replacement parts. Please keep and read this User's Manual before using your new wheel restraint.

SAFETY SIGNAL WORDS

You may find safety signal words such as DANGER, WARNING, CAUTION or NOTICE throughout this Owner's Manual. Their use is explained below:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

▲DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲CAUTION

Indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

▲WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

Notice is used to address practices not related to personal injury.

SAFETY PRACTICES

WARNING

Read these safety practices before installing, operating or servicing the wheel restraint. Failure to follow these safety practices could result in death or serious injury.

READ AND FOLLOW THE OPERATING INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING THE WHEEL RESTRAINT. If you do not understand the instructions, ask your supervisor to teach you how to use the wheel restraint.

Improper installation of wheel restraint could result in death or serious injury to dock workers or other users of the wheel restraint.

Vehicles leaving or moving when loading and unloading are in process could result in death or serious injury.

Be certain bystanders in the driveway stand clear when the wheel restraint is operating.

Be certain to follow the installation instructions in this manual.

OPERATION

Use by untrained people can cause property damage, bodily injury and/or death. Your supervisor should teach you the safe and proper way to use the wheel restraint. Read and follow the complete OPERATING INSTRUCTIONS starting on page 9 before use. Do not use the wheel restraint if it is not working right. Tell your supervisor it needs repair.

Do not operate the wheel restraint with equipment, material, or people directly in front of the restraint.

Do not use the wheel restraint if it looks broken or does not seem to work right. Tell your supervisor at once.

Before chocking vehicle wheel or engaging the wheel restraint, dump air from air ride suspensions and set parking brake.

Prior to using the wheel restraint:

- Ensure the vehicle is parked firmly against the dock bumpers.

After engaging the wheel restraint:

- Load or unload the vehicle only when the inside GREEN light is displayed.
- If the wheel restraint cannot make engagement, use wheel chocks to secure the vehicle, then turn selector switch to **RESTRAINT OVERRIDE/LIGHTS ONLY**.

INSTALLATION, MAINTENANCE AND SERVICE

If the wheel restraint does not operate properly using the procedures in this manual, BE CERTAIN TO MANUALLY CHOCK THE VEHICLE WHEELS BEFORE LOADING OR UNLOADING. Call your local distributor for service.

Place barricades around pit on dock floor and drive while installing, maintaining or repairing the wheel restraint.

Do not stand in the driveway between the dock and a backing vehicle.

All electrical troubleshooting and repair must be done by a qualified technician and meet all applicable codes.

Before doing any electrical work, make certain the power is disconnected and properly tagged or locked off.

Before doing any welding, make certain the power is disconnected and properly tagged or locked off.

If it is necessary to make troubleshooting checks inside the control box with power on, USE EXTREME CAUTION. Do not place fingers or uninsulated tools inside the control box. Touching wires or other parts inside the control box could result in electrical shock, serious injury or death.

COMPONENTS AND SPECIFICATIONS

The main components of the wheel restraint are shown below.

Fig. 1

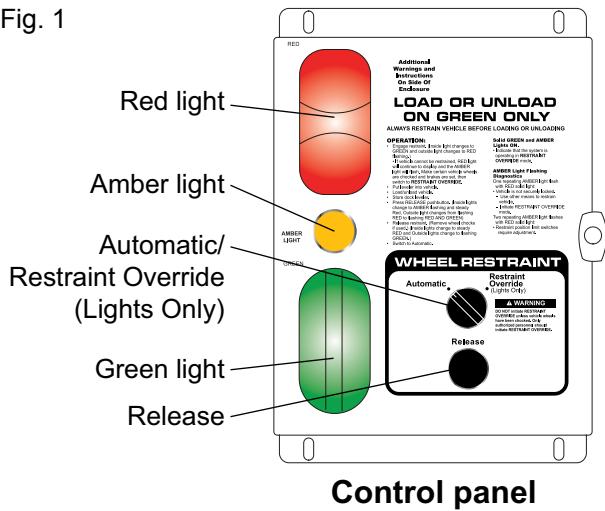
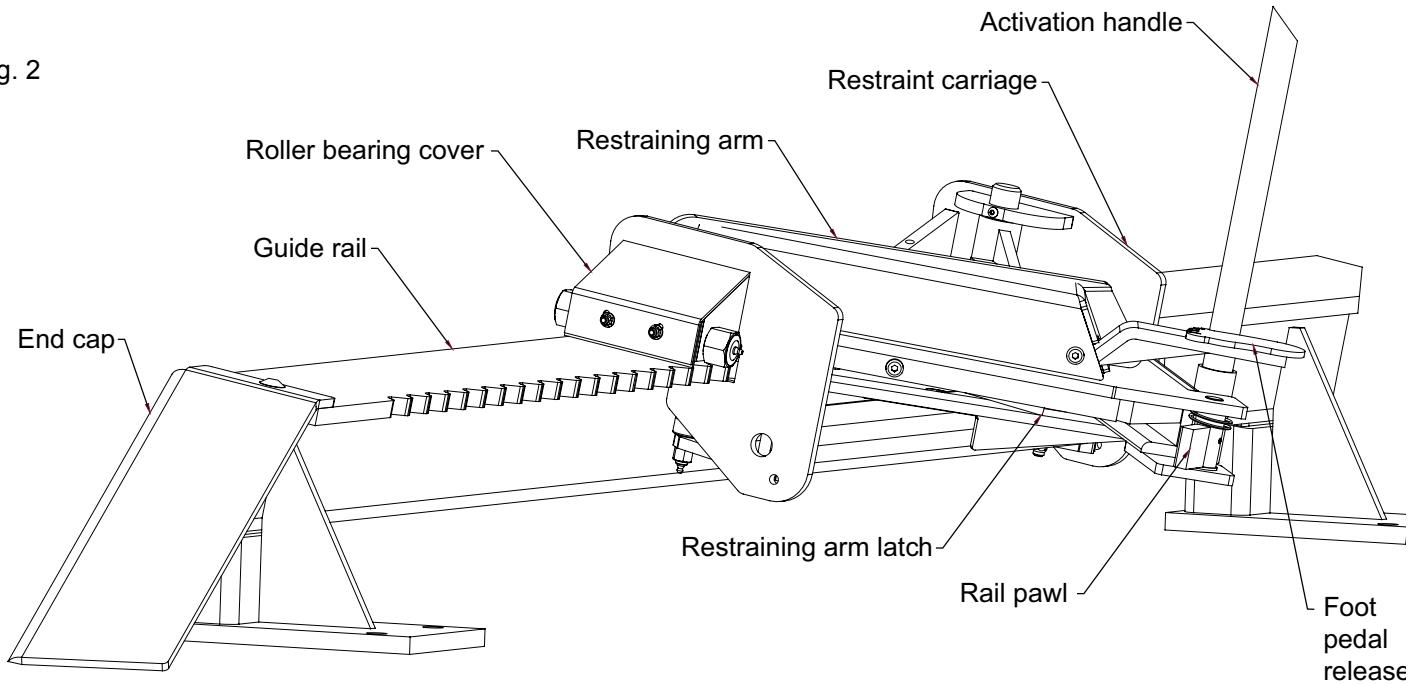


Fig. 2



INSTALLATION INSTRUCTIONS

WARNING

Before installation read and follow the Safety Practices on page 3. Failure to follow these safety practices could result in death or serious injury.

READ AND FOLLOW THE OPERATION INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING THE WHEEL RESTRAINT. If you do not understand the instructions, ask your supervisor to teach you how to use the wheel restraint.

Improper installation of the wheel restraint could result in death or serious injury to dock workers or other users of the wheel restraint.

Place barricades around pit on dock floor and drive while installing, maintaining or repairing the wheel restraint.

Be certain bystanders in the driveway stand clear when the wheel restraint is operated.

Be certain to follow the installation instructions in this manual.

INSTALLATION INSTRUCTIONS

1. Layout the installation position. Refer to the wheel restraint installation drawings included in this publication for clarification of the following instructions. See Fig. 3.
 - a. Mark the center line of the dock on the driveway. This is point "A".
 - b. While facing the dock, measure over 52 inches to the right of the center line and mark the driveway at the dock wall. This is point "B".
 - c. Measure 146 inches out from the dock wall (from point "B") and draw a line on the driveway parallel to the wall.
 - d. Hold one end of the tape measure on the center line of the dock wall (point "A") and measure out 155 inches to the 146 inch line. Mark where the 155 inch distance crosses the 146 inch line. This is point "C".
 - e. Mark a line from point "B" to point "C" and extend the line out 16 feet from the dock face. This line will be square to the dock wall.
2. Position the wheel restraint assembly on the right side of the driveway with the inside edge of the guide rail tube directly above the line "B-C" with back edge of guide rail 32" from dock wall. Secure the rail assembly to the driveway with four anchor bolts 3/4" diameter by 5-1/2" long (Furnished by 4Front Engineered Solutions, Inc.). Torque to 110 ft. lbs.
3. Mount the control panel on drivers side of the dock so that the communication lights are visible to the fork truck driver. Mount the outside communication lights/alarm and sign so that they are visible to the vehicle driver. Refer to the installation drawing for recommended dimensions. Make sure the Red light is on top and the Green light on the bottom when the light assembly is mounted. See Fig. 4.

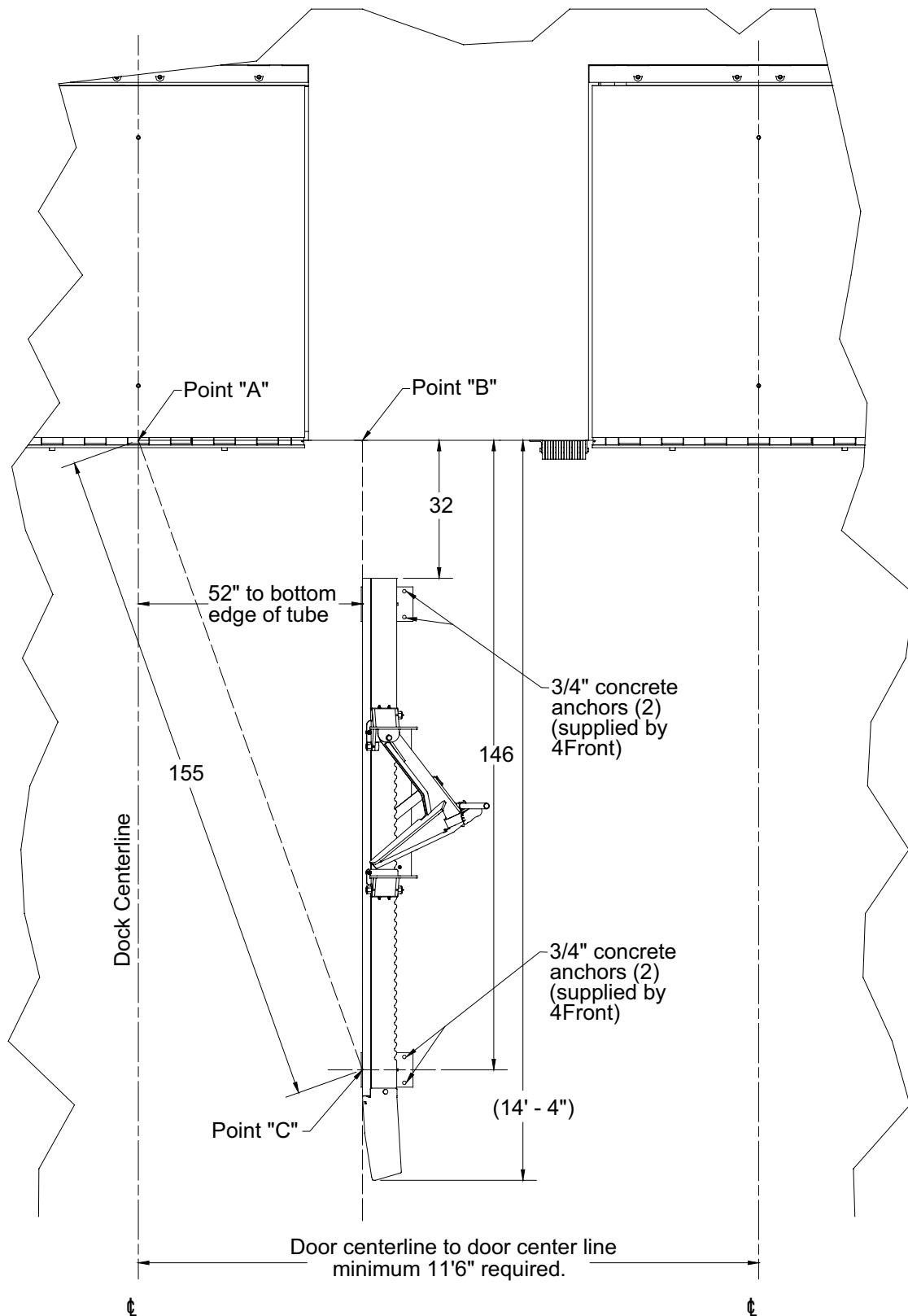
WARNING

All wiring must be done by a qualified technician and must meet all applicable codes.

4. Make all field connections as shown on electrical installation drawing, see page 18.

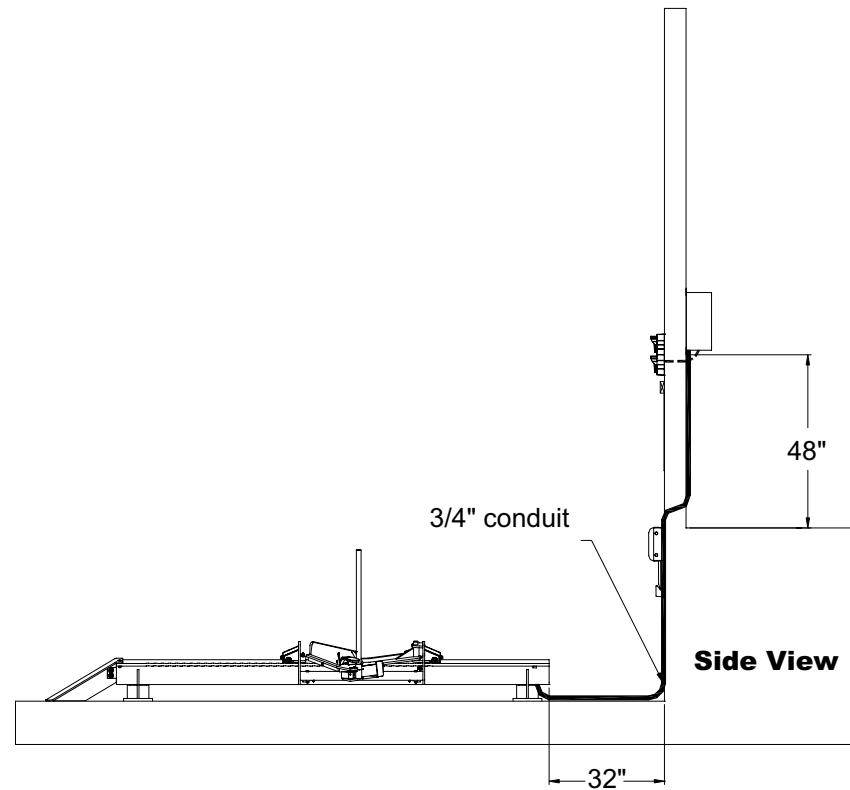
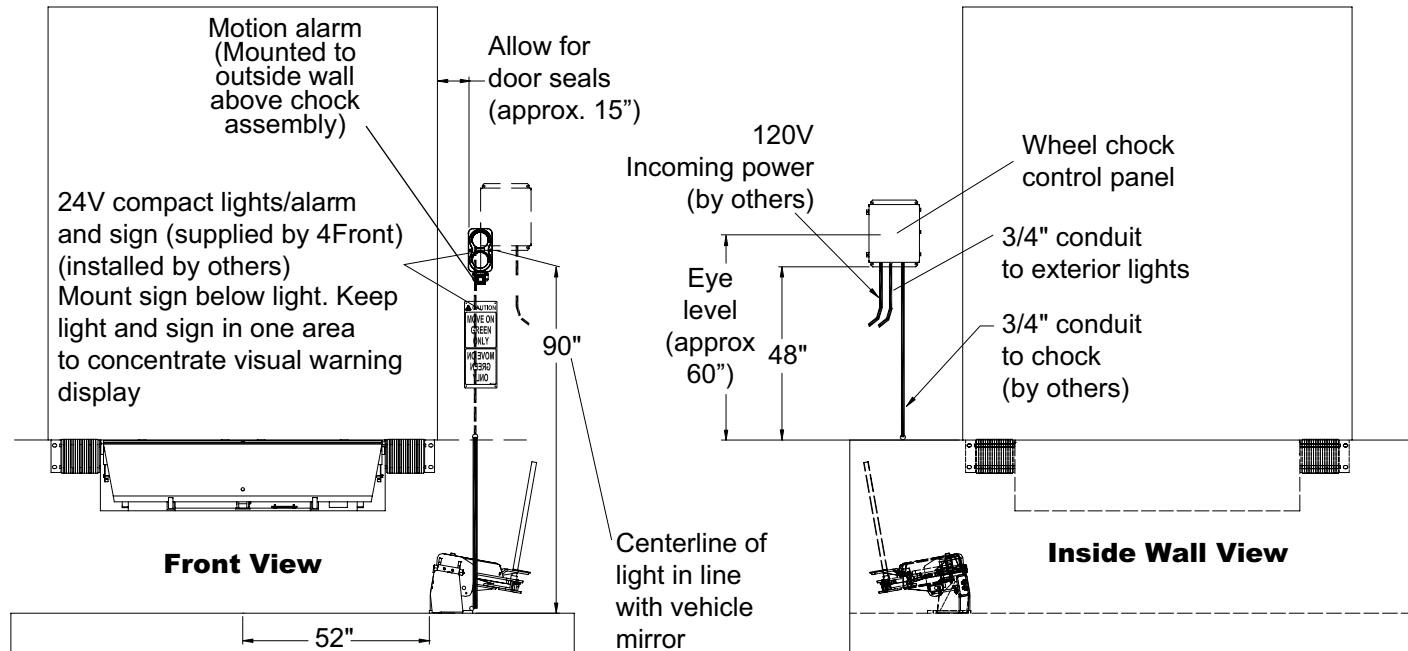
INSTALLATION INSTRUCTIONS, continued

Fig. 3



INSTALLATION INSTRUCTIONS, continued

Fig. 4



INSTALLATION INSTRUCTIONS, continued

WEDGE ANCHOR INSTALLATION

WARNING

Do not install the vehicle restraint anchor bolts into aged or unsound concrete.

Use standard anchors on smooth 4,000 PSI concrete walls only. For aggregate, cinder block or tilt walls - consult factory.

CAUTION

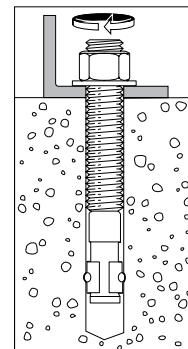
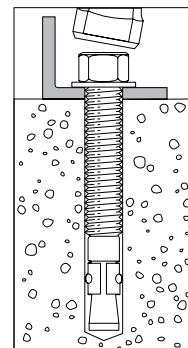
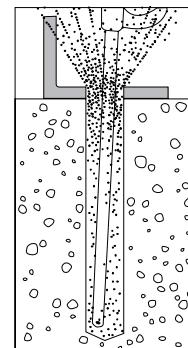
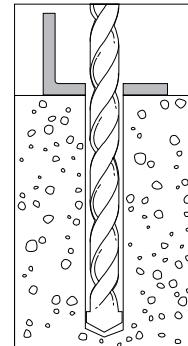
Oversized holes in the base material will make it difficult to set the anchor and will reduce the anchor's load capacity.

NOTICE

Do not use an impact wrench to set or tighten the wedge anchors.

Drill a hole in the concrete using a carbide drill bit the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified embedment depth and blow it clean using compressed air. Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling. Assemble the anchor with nut and washer so the top of the nut is flush with the top of the anchor. Place the anchor in the fixture and drive into the hole until washer and nut are tight against fixture. Torque to 110 ft. lbs. See Fig. 5.

Fig. 5



OPERATING INSTRUCTIONS

Use these instructions for normal operations.

⚠ WARNING

Before operating the wheel restraint, read and follow the Safety Practices, Warnings, and Operation instructions contained in this manual. Use by untrained people could result in death or serious injury.

Do not use the wheel restraint if it looks broken or does not seem to work right. Tell your supervisor at once.

Do not load or unload any vehicle unless you make certain the wheel restraint has securely engaged the tire and set the brakes. If the wheel restraint will not chock the vehicle's tire for any reason, BE CERTAIN TO MANUALLY CHOCK THE VEHICLE WHEELS BEFORE LOADING OR UNLOADING.

Enter the vehicle only when the GREEN signal light on the control panel is on. You must check the GREEN signal light each time that the vehicle is entered. If the GREEN light goes off at any time during loading operations, immediately cease loading operations and check the wheel restraint to ensure that it is securely hitched.

If the power to the wheel restraint is interrupted, immediately cease operations and check the unit. consult the troubleshooting instructions to reset the lights when power resumes.

Vehicles leaving or moving when loading and unloading are in process could result in death or serious injury.

Do not press the release button or release the restraining arm with dock leveler lip in trailer. Always return the dock leveler to its stored position at dock level before pressing the release push button or allowing the vehicle to leave.

Failure to follow these safety practices may result in death or serious injury.

OPERATING INSTRUCTIONS, continued

ENGAGING VEHICLE

- With the vehicle in contact with the dock bumpers and the wheel restraint in the stored position the outside light should be GREEN and inside light should RED with the selector switch in the AUTOMATIC position. See Fig. 6.
- Move the restraining carriage along the guide rail using the provided actuation handle on the wheel restraint. Position the restraining arm in front of the rear wheel of the vehicle. See Fig 7. Extend the restraining arm out by pushing the handle toward the trailer until it locks into position on the rail. As the restraining arm begins to extend toward the trailer, the outside light will change from GREEN to RED. See Fig. 8.
- With the restraining arm locked in the extended position move the restraining arm into contact with the rear wheel of the vehicle. The operator shall confirm that the restraint has fully engaged the rear wheel. When the restraint has fully engaged the rear wheel, the inside lights will change from Red to Green. The vehicle is now safe to load and unload. See Fig. 9

WARNING

In the event the restraining arm is released prior to the release pushbutton being pressed, an audible alarm will sound and the inside lights will change from GREEN to RED and AMBER. Re-engage restraining arm to silence alarm and change inside light back to GREEN. Do not attempt to load or unload the vehicle until alarm is silenced and inside light is GREEN.

Fig. 7

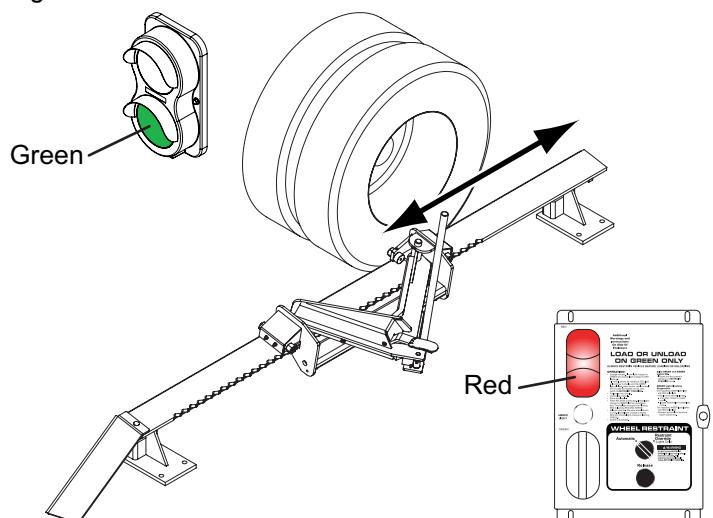


Fig. 8

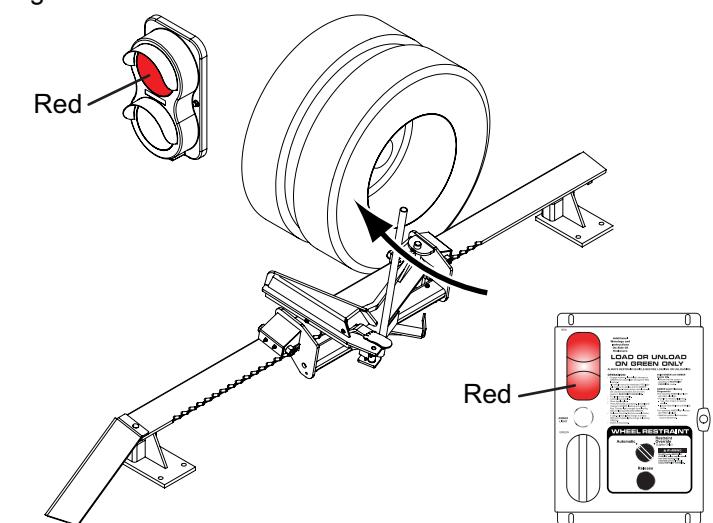


Fig. 9

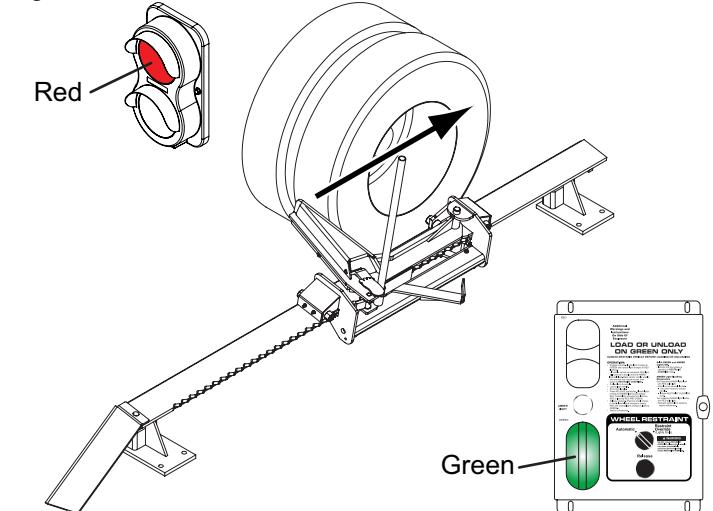
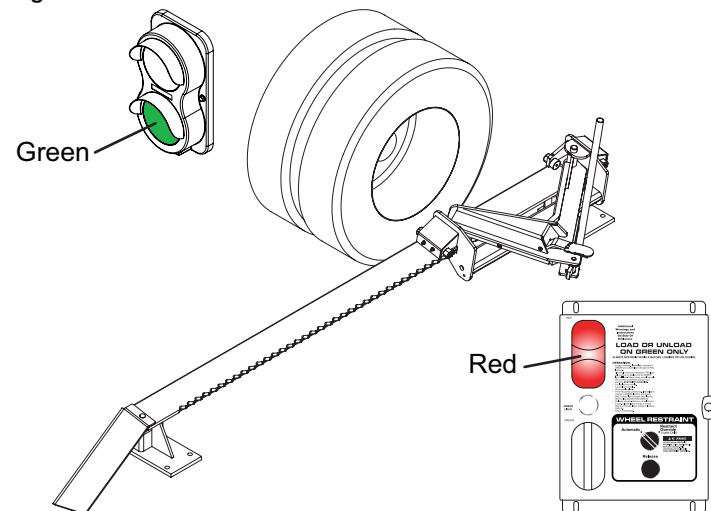


Fig. 6



OPERATING INSTRUCTIONS, continued

RELEASING VEHICLE

⚠ WARNING

Do not press the release button or release the restraining arm with dock leveler lip in trailer.

1. Store dock leveler.
2. Press restraint release button. The inside light will change from GREEN to RED. The outside light will change from RED to RED and GREEN.
3. Release restraining arm from vehicle wheel by applying a downward force to the foot pedal and allow the restraining arm to retract toward the stored position. When the restraining arm reaches the stored position, the inside light will remain RED and the outside light will turn from RED and GREEN to just GREEN. The vehicle is now safe to leave.

⚠ WARNING

In the event the restraining arm is released prior to the release pushbutton being pressed, an audible alarm will sound and the inside lights will change from GREEN to RED and AMBER. Re-engage restraining arm to silence alarm and change inside light back to GREEN. Do not attempt to load or unload the vehicle until alarm is silenced and inside light is GREEN.

Fig. 10

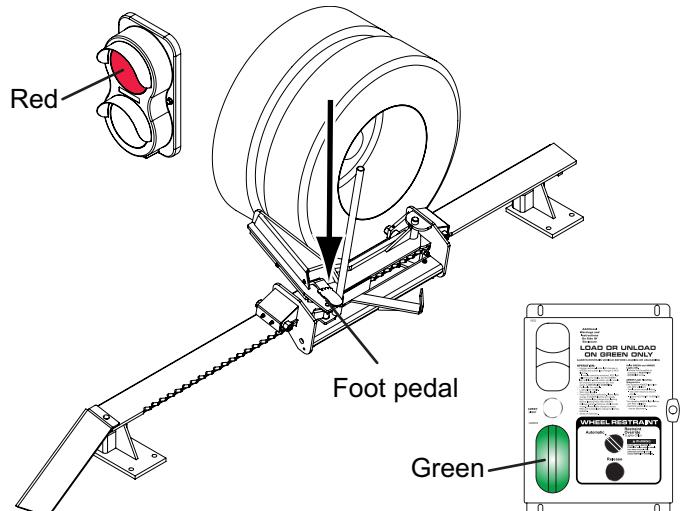
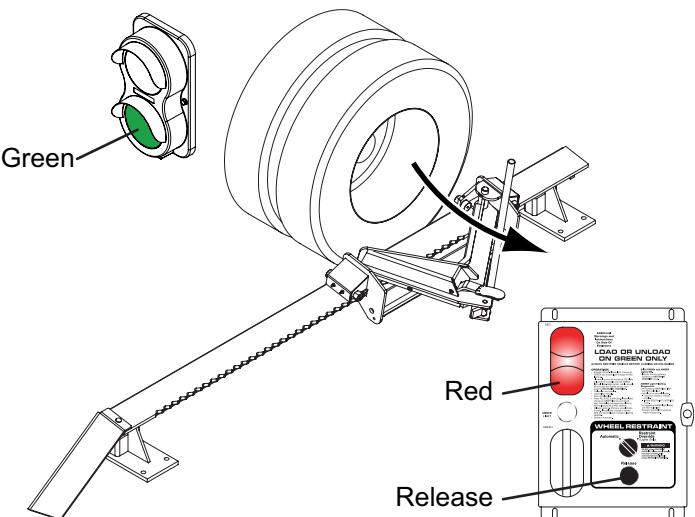


Fig. 11



OPERATING INSTRUCTIONS, continued

FOR VEHICLES THAT CANNOT BE ENGAGED

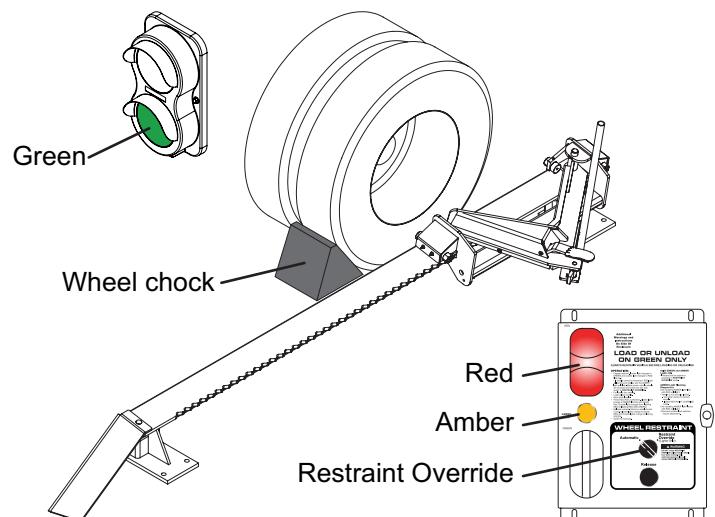
⚠ WARNING

Do not press the release button or release the restraining arm with dock leveler lip in trailer.

Do not initiate RESTRAINT OVERRIDE (LIGHTS ONLY) unless vehicle wheels have been chocked. Only authorized trained personnel should intiate RESTRAINT OVERRIDE (LIGHTS ONLY).

1. If the configuration of the vehicle wheels prevents proper engagement of the restraining arm, the wheels must be manually chocked. Manually chock the vehicle wheels and then rotate the RESTRAINT OVERRIDE / LIGHTS ONLY selector switch to initiate the restraint override condition. The outside light will change from GREEN to RED. The inside light will change from RED to GREEN and AMBER. The vehicle is now safe to load and unload. See Fig. 12.
2. When the loading and unloading is complete return the dock leveler to the stored position. Remove the wheel chocks and rotate the selector switch to the AUTOMATIC position. The outside light will change from RED to GREEN and inside light will change from GREEN and AMBER to RED. The vehicle is now safe to leave.

Fig. 12



PREVENTIVE MAINTENANCE

To ensure the continued proper operation of your wheel restraint, perform the following preventive maintenance procedures.

WARNING

Do not service this product unless you have read and followed the Safety Practices, Warnings and Operation instructions contained in this manual. Failure to follow these safety practices could result in death or serious injury.

DAILY

1. Check inside/outside lights and alarms to ensure they are functioning properly.
2. Clear all debris (dirt, snow, etc.) from the rail.
3. Check for worn, torn, missing bumpers. Replace if necessary.

WEEKLY

1. Remove all debris from the restraining arm and under the wheel restraint housing.
2. Check all operating, warning labels and signs. Replace as needed. See page 14.
3. Inspect the wheel restraint for damage that may weaken the anchoring strength. Re-tighten the concrete anchors if necessary.

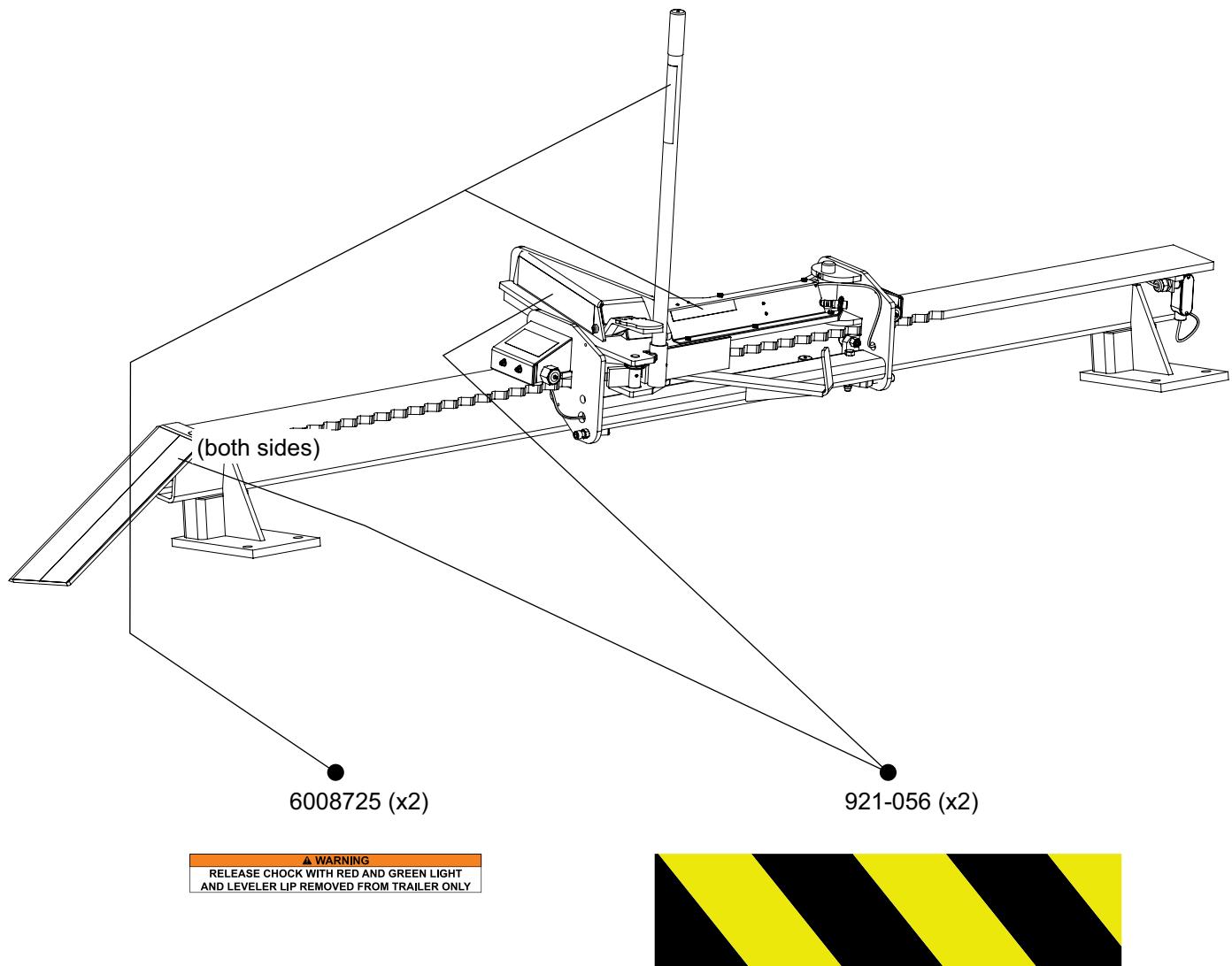
QUARTERLY

1. Lubricate the restraining arm pivot with light oil, and ensure that it pivots freely. See Fig. 14 on page 15.
2. Inspect the chock for any signs of wear, distortion, or cracked welds.
3. Grease all pivot points. See Fig 14 on page 15.
4. Check for worn, torn, missing bumpers. Replace if necessary.

PREVENTIVE MAINTENANCE, continued

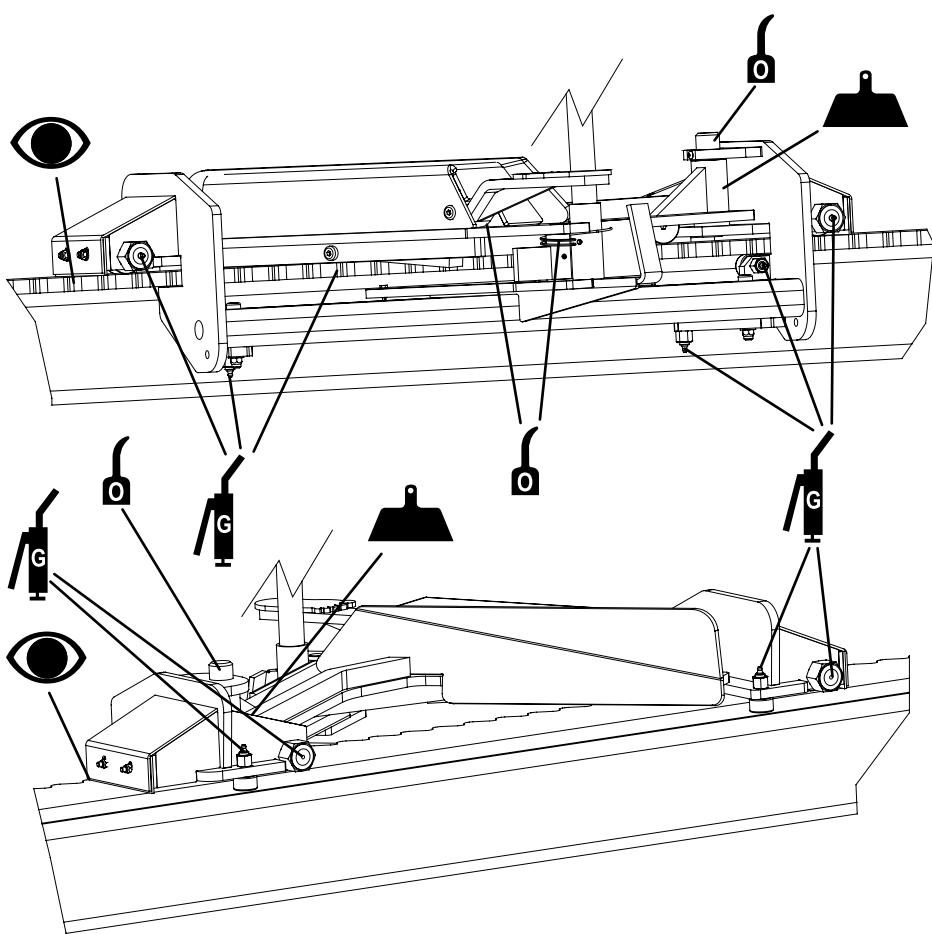
Every 90 days (quarterly) inspect all safety labels and tags to ensure they are on the dock leveller and are easily legible. If any are missing or require replacement, please call your local distributor.

Fig. 13



PREVENTIVE MAINTENANCE, continued

Fig. 14



Legend	
Symbol	Description
	Lubricate - Oil Light Oil - SAE 30
	Lubricate - Grease Molybdenum Disulfide NLGI #2
	Cleaning (Location - Frequency)
	Visually inspect (Replace damaged or worn)

ADJUSTMENTS

WARNING

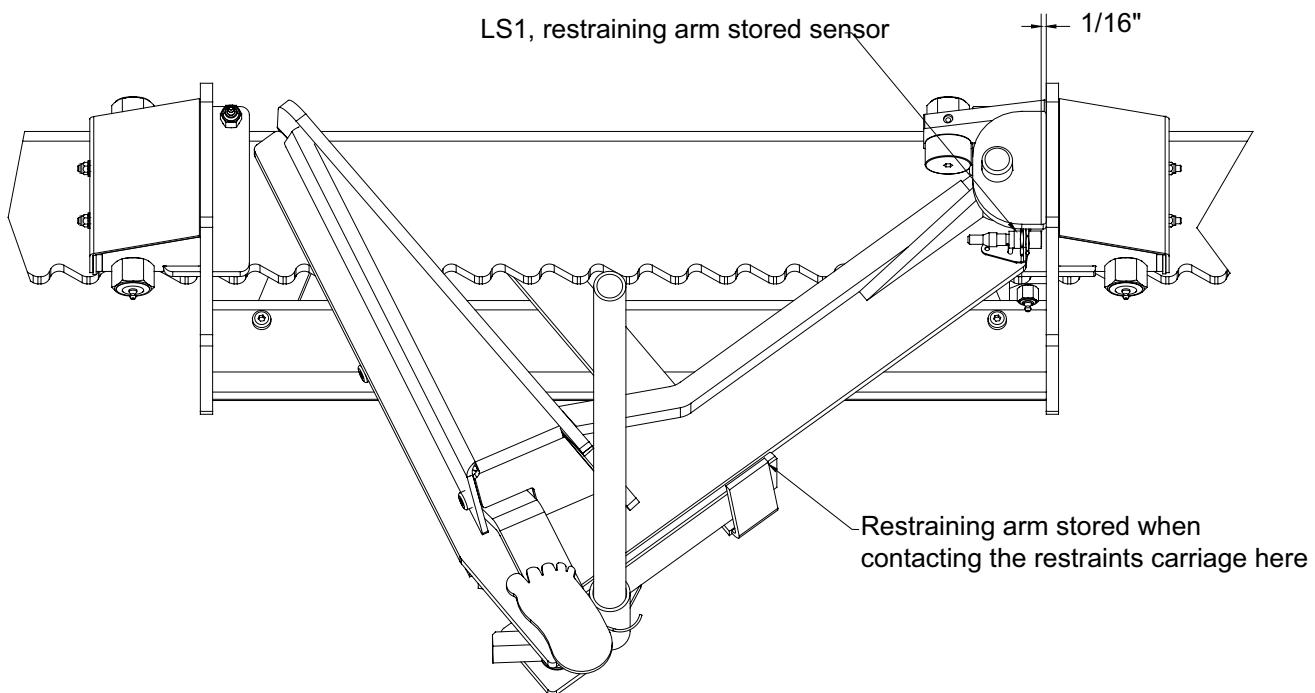
Do not service this product unless you have read and followed the Safety Practices, Warnings and Operation instructions contained in this manual. Failure to follow these safety practices could result in death or serious injury.

Use these instructions to adjust the wheel restraint.

PROXIMITY SENSORS — LS1

Proximity sensor LS1 indicates the restraining arm stored position. The correct position is when the restraining arm is resting against the stop on the carriage. When the restraining arm is stored, the LS1 sensor should be 1/16" from contacting the restraint carriage as shown in Fig. 15.

Fig. 15



TROUBLESHOOTING

WARNING

Before servicing the wheel restraint, read and follow the Safety Practices on page 2 and the Operation section in this manual. Failure to do so could result in death or serious injury.

Use the Troubleshooting Guide if the wheel restraint fails to perform properly. Find the condition that most closely matches your situation, and make the recommended adjustments.

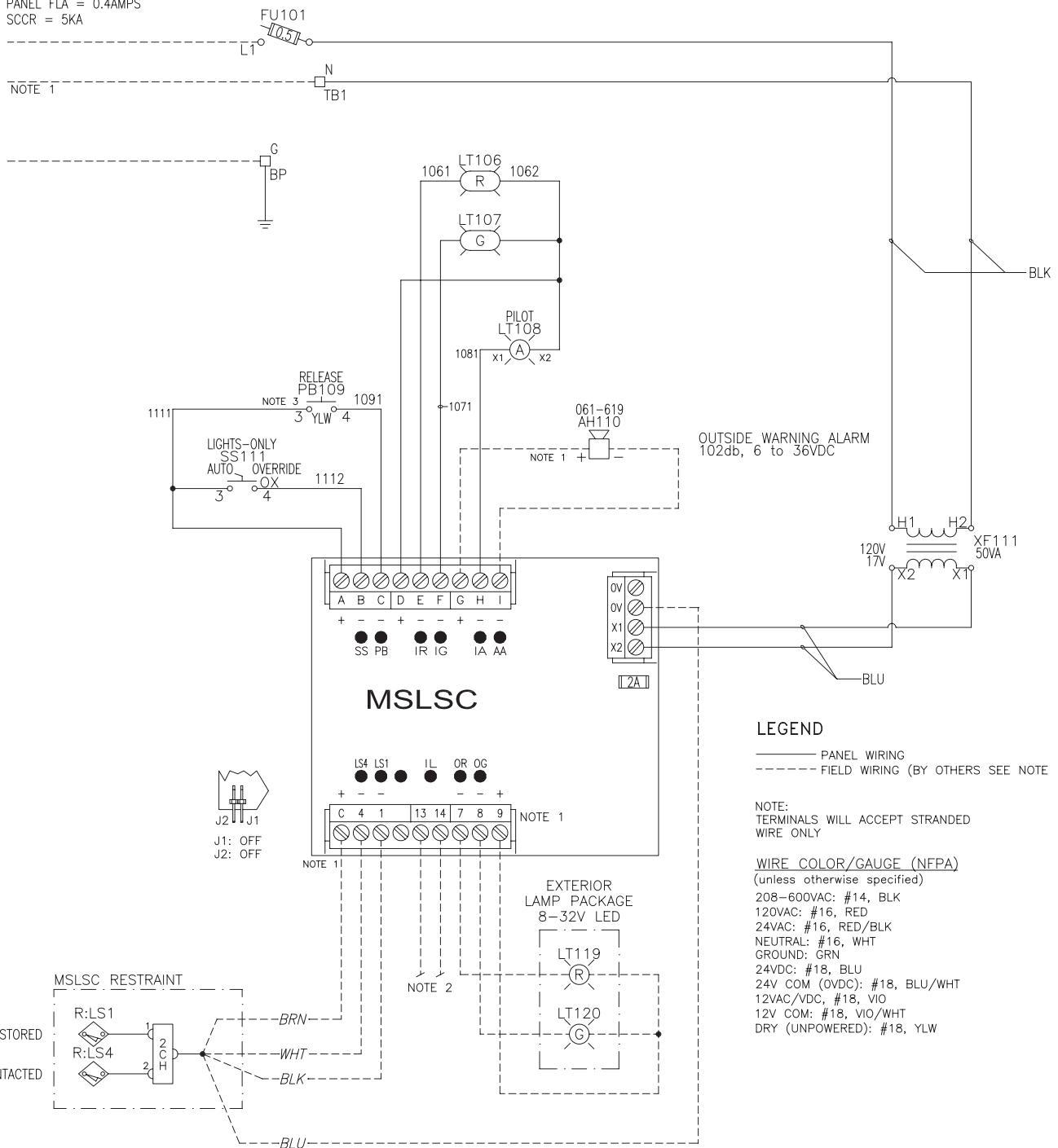
PROBLEM	POSSIBLE CAUSE	SOLUTION
1. No Lights.	a) No power to panel. b) Fuse failed.	a) Check power supply terminals L and N. b) Check fuses FU-1 and fuse on circuit board.
2. Restraining arm is stored, inside and outside lights are red.	a) LS1 switch out of adjustment.	a) Check LS1 switch adjustment. Check wiring.
3. Restraining arm is rotated into engagement with vehicle wheel, inside and outside lights are red.	a) LS4 switch not sensing.	a) Check LS4 wiring.
4. No sound from outside alarm.	a) Alarm polarity reversed.	a) Verify alarm wiring.

ELECTRICAL SCHEMATIC

Fig. 16

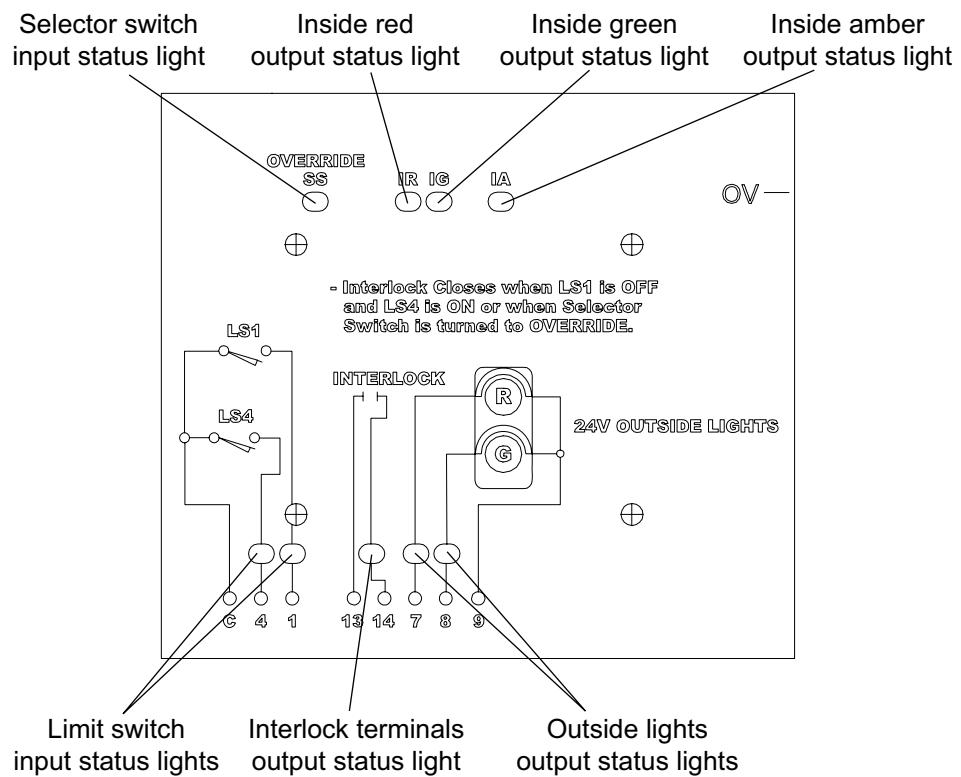
120V/1PH/60HZ

INCOMING SERVICE TO BE TERMINATED AT DISCONNECT
CB/FU TO BE SUPPLIED BY OTHERS
SUPPLY BCPD = CB/FU 15AMP MAX
PANEL FLA = 0.4AMPS
SCCR = 5KA



CONTROL PANEL CIRCUIT BOARD COVER

Fig. 17

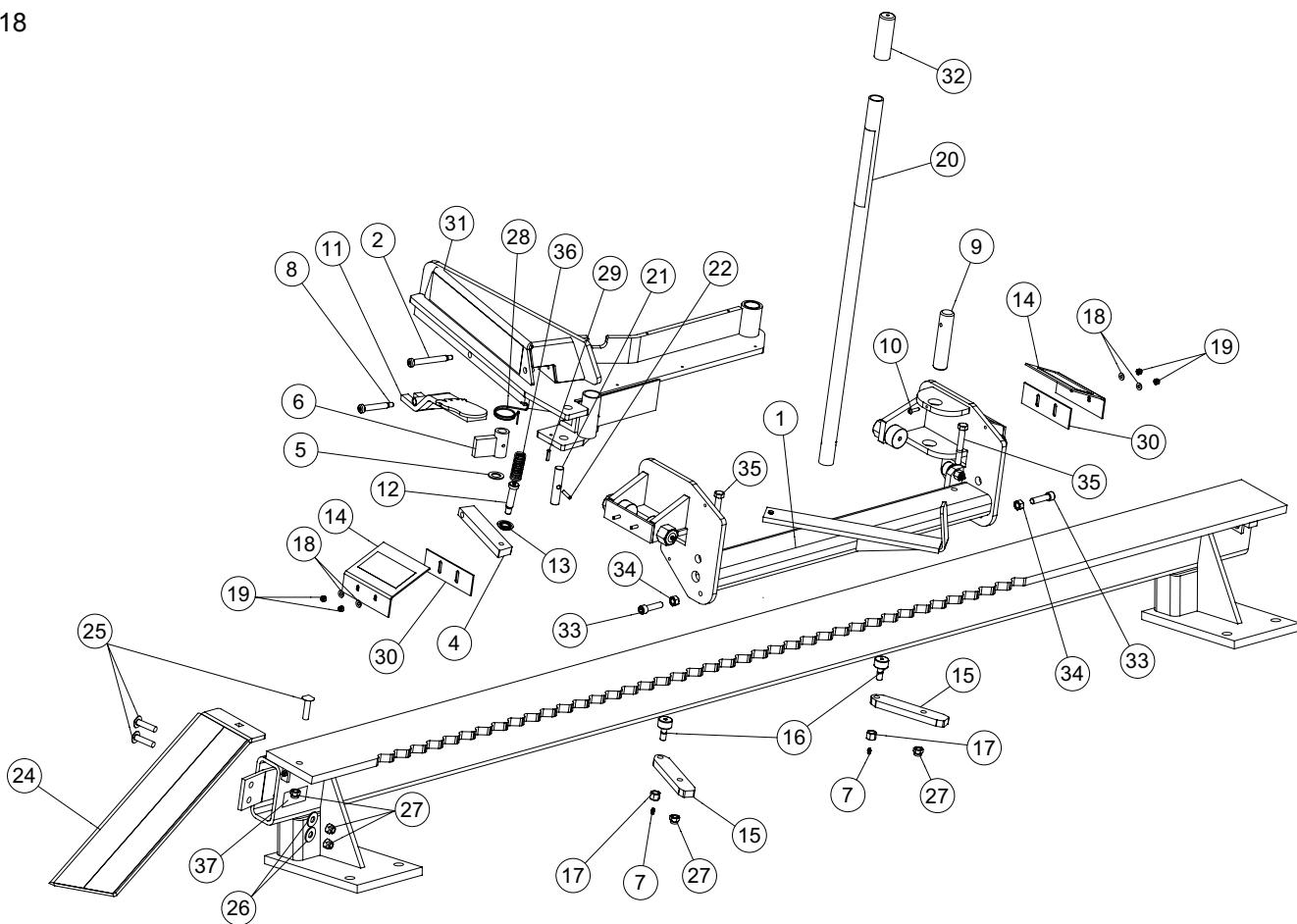


PARTS LIST — WHEEL RESTRAINT

⚠ WARNING

To ensure proper function, durability and safety of the product, only replacement parts that do not interfere with the safe, normal operation of the product must be used. Incorporation of replacement parts or modifications that weaken the structural integrity of the product, or in any way alter the product from its normal working condition at the time of purchase from 4Front Engineered Solutions, Inc. may result in product malfunction, breakdown, premature wear, death or serious injury.

Fig. 18

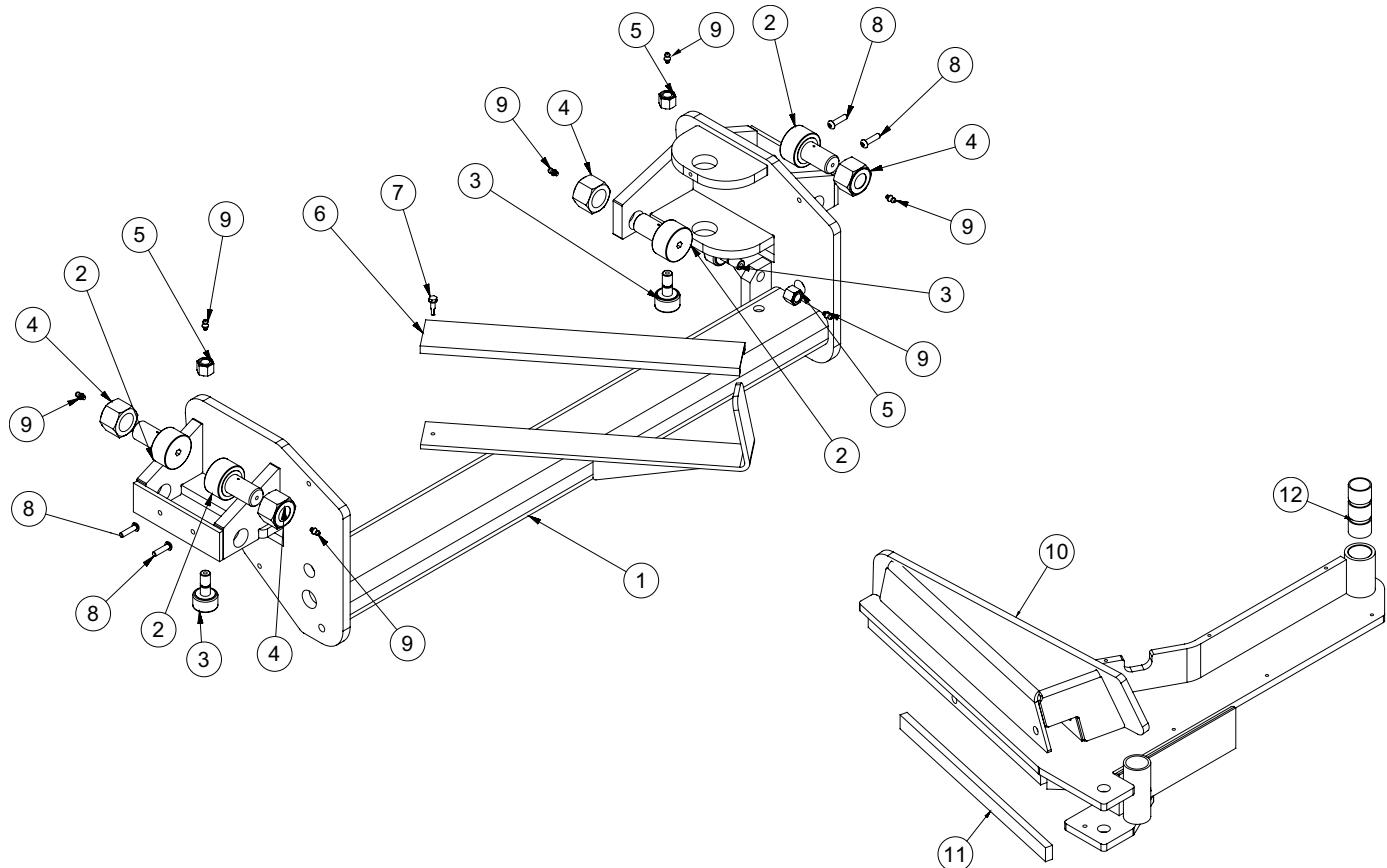


PARTS LIST — WHEEL RESTRAINT, continued

Item	Qty.	Part Description	Part Number
1	1	Carriage assy., MSLSC	6009000
2	1	Hex socket head shoulder screw, 1/2 x 3-1/2	6009145
3	1	Nylon lock nut, 3/8-16 UNC	214538
4	1	Lever, chock arm release	6009005
5	1	Pw 3/4 bolt size, 13/16 hole, plated	234141
6	1	Weldment, pawl assy.	6009003
7	2	Grease fitting, drive fit	417113
8	1	Hex socket head shoulder screw, 1/2 x 2-1/2	6006650
9	1	Main arm pin	4870001
10	1	Button head hex socket cap screw - 1/4-20 UNC x 1	6004099
11	1	Weldment, foot pedal release	6009004
12	1	Hex socket head shoulder screw, 5/8 x 2	6009006
13	1	Washer, foot pedal	6009007
14	2	Cover, roller bearing	6009008
15	2	Bearing arm	6009009
16	2	1-1/4 Cam follower bearing	6004095
17	2	Nylon lock nut	6004096
18	4	Plain washer 1/4 bolt size, 5/16 hole, plated	234081
19	4	Nylon lock nut, 1/4-20 UNC	214502
20	1	Activation post	6009010
21	1	Pin, ratchet	6009011
22	1	Spring pin, 1/4 x 1-1/2	231123
23	1	Spring pin, 1/4 x 2	231124
24	1	Nose cone	6009012
25	3	Carriage bolt, 1/2-13 x 2, plated	213145
26	2	Plain washer 1/2 bolt size, 9/16 hole, plated	234121
27	5	Nylon lock nut, 1/2-13 unc, plated	214505
28	1	Spring, ratchet pawl	6009013
29	1	Spring pin, 1/4 x 1	231122
30	2	Scraper	6009014
31	1	Chock arm assy., MSLSC	6009002
32	1	Eod grip	6007550
33	2	Hex cap screw, 1/2-13 UNC x 2, full thread	212207
34	2	Hex jam nut, 1/2-13 UNC, plated	214242
35	2	Hex handle machine bolt 1/2-13 x 3-1/2, GR2, zinc	212212
36	1	Spring, foot pedal release	6009137
37	1	Serial tag	6009761

PARTS LIST — CARRIAGE ASSEMBLY AND CHOCK ARM

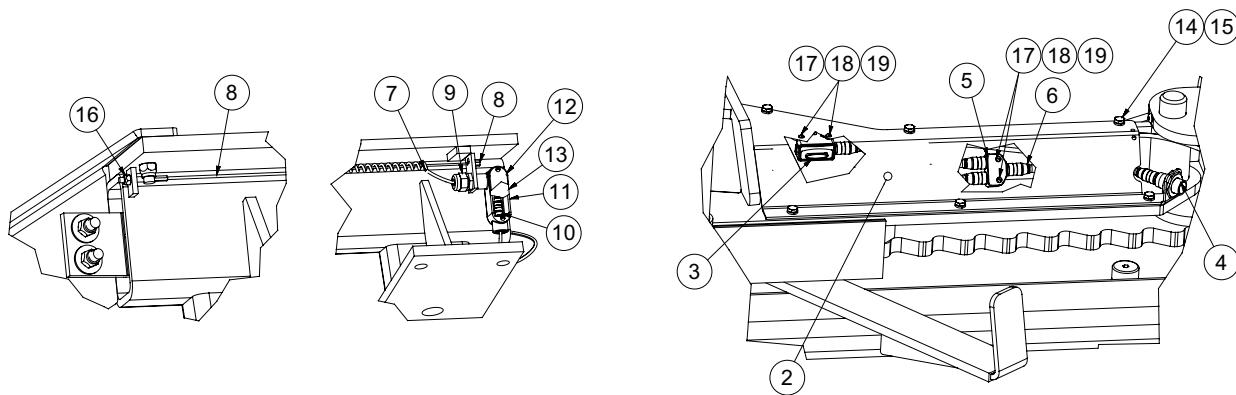
Fig. 19



Item	Qty.	Part Description	Part Number
1	1	Weldment, carriage assy	6008999
2	4	1-7/8 Cam follower bearing	341001
3	3	1-1/4 Cam follower bearing	6004095
4	4	Nylon lock nut - 1-14 UNS	214351
5	3	Nylon lock nut - 1/2-20 UNF	6004096
6	1	Wear strip, arm	6009042
7	1	Teks-4 screw 12-24 x 7/8 Buildex	6000285
8	4	Button head hex socket cap screw - 1/4-20 UNC x 1	6004099
9	7	Grease fitting, drive fit	417113
10	1	Chock arm weldment	6009001
11	1	Chock arm wear strip	153111
12	3	Em bushing DU 1-1/4x1-20DU16	821032

PARTS LIST — ALS PACKAGE, continued

Fig. 20

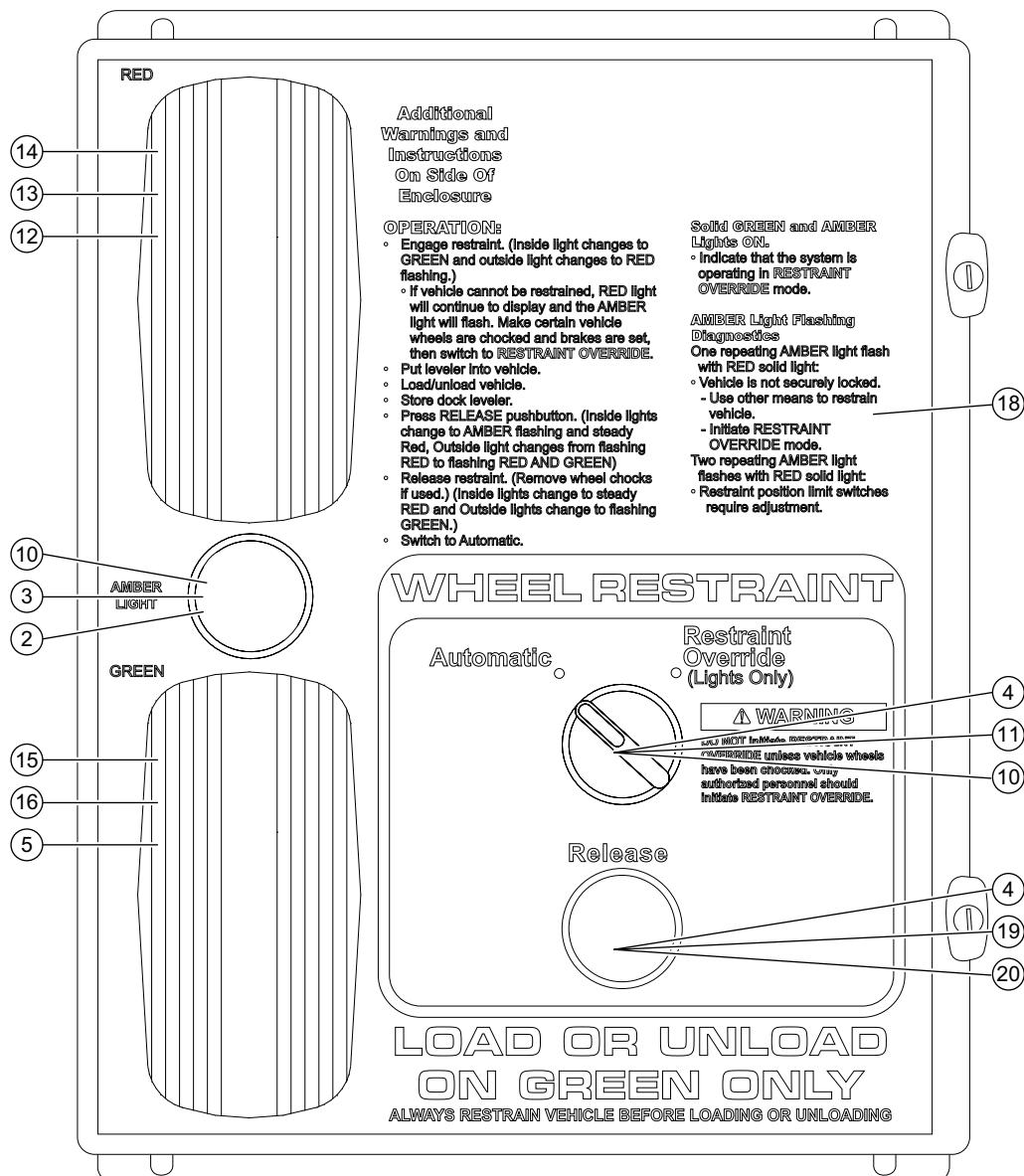


Item	Qty.	Part Description	Part Number
1	1	MSLSC ALS assy, complete — 10' models MSLSC ALS assy, complete — 13' models MSLSC ALS assy, complete — 16' models	6009146 6009147 6009148
2*	1	Cover, ALS pkg	6009015
3*	1	Photo sensor, chock arm	6009138
4*	1	Prox sensor, 18 mm, PNP, NO	6008404
5*	1	Splitter, qd, ALS pkg	6009139
6*	1	Cable assy, 5 pin, quick disconnect, 2.0M	6008962
7*	1	Coil cord, qd, als pkg, mslsc	6009140
8*	1	Cable assy, cord support, 10' models Cable assy, cord support, 13' models Cable assy, cord support, 16' models	6009016 6009062 6009063
9*	1	Cord grip	823007
10*	1	Home run cable, quick disconnect, 4 lead, 10m	6009141
11*	1	Conduit body, LR style, 3/4" hub	6009142
12*	1	Conduit cover, hub size 3/4"	6009143
13*	1	Gasket, conduit body, 3/4" hub size	6009144
14*	6	Hex head machine bolt 1/4-20 UNC x 3/4	212014
15*	6	Plain washer 1/4 bolt size, 5/16 hole	234081
16*	1	Lock nut 1/4-20 UNC, nylon insert	214502
17*	4	RHMS 4-40 UNC x 1, pldt	211063
18*	4	Lock nut 4-40 UNC, nylon insert	214060
19*	4	Plain washer #4, 1/8ID x 3/8 OD, pldt	234052

* Part of Item 1 (MSLSC ALS assy – Complete).

PARTS LIST — CONTROL PANEL

Fig. 21

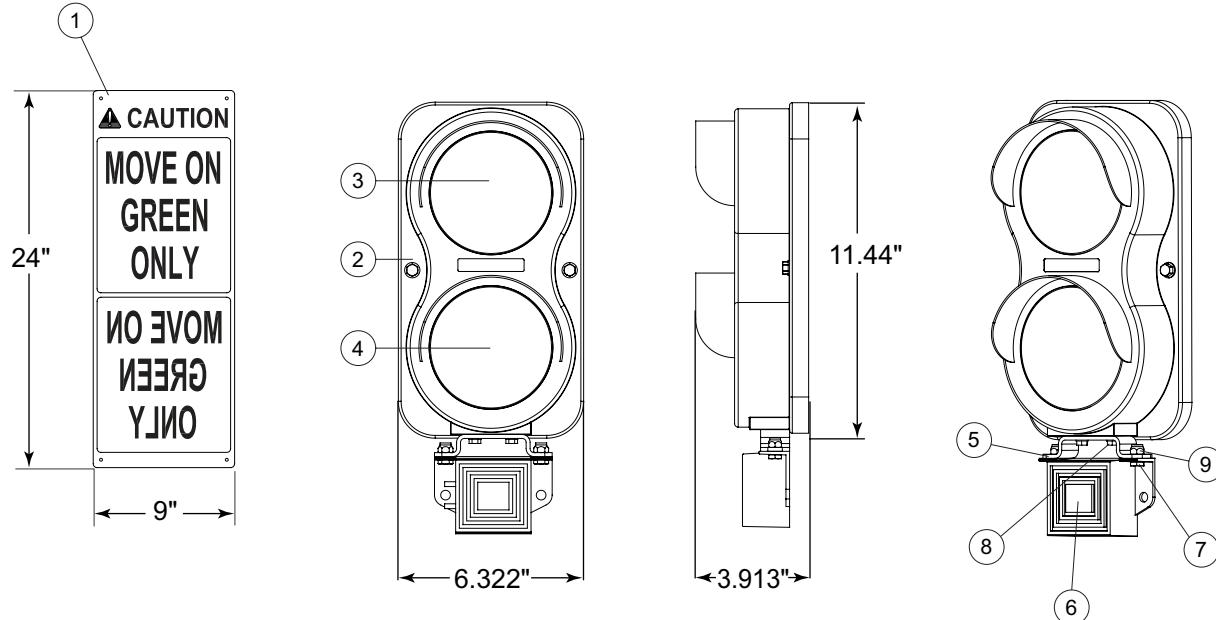


PARTS LIST — CONTROL PANEL, continued

Item	Quantity	Part Description	Part Number
1	1	Power board — not shown	CI-EPB-001
2	1	Amber light body — not shown	633-002
3	1	Amber light head — not shown	633-003
4	2	Normally open contact	632-228
5	2	Green LRU LED	6006377
6	1	Control transformer 120/17 50VA — not shown	—
7	1	Fuse 2A — type MDL2A (on board) — not shown	—
8	1	Fuse 0.5A — type MDL0.5A — (supply) — not shown	—
9	1	XALS control board — not shown	629-747
10	2	SSW base	632-225
11	1	Selector switch — 2 pos.	632-217
12	1	Light base (red)	823-107
13	1	Lens only, red, rectangular	823100
14	2	Red LRU LED	6006375
15	1	Light base (oval)	823-111
16	1	Lens only, green, oval	AP0027
17	1	Board cover — not shown	6009508
18	1	Main label — Serco Main label — Kelley	6009315 6009316
19	1	Push button, universal	6000506
20	1	Body, mounting collar	6000515
21	1	Danger label, side mounted - not shown	6002986

PARTS LIST — LIGHTS, SIGNS AND ALARM

Fig. 22



Item	Quantity	Part Description	Part Number
1	1	Outside Sign – Normal and Reverse Lettering	709-832
2	1	Light Assembly - Complete (LEDs, alarm, mounting hardware)	6007798
3*	1	Red LED Light Assy.	6007800
4*	1	Green LED Light Assy.	6007801
5*	1	Bracket, alarm mount, MSLSC	6009514
6*	1	Alarm	061619
7*	2	HHMB 1/4-20 UNC x 3/4	212014
8*	2	Teks-4 screw 12-24 x 7/8 Buildex	6000285
9*	2	LN 1/4-20 UNC, nylon insert	214502

* Part of Item 2.

LIMITED WARRANTY

4FRONT ENGINEERED SOLUTIONS, INC. warrants that this WHEEL RESTRAINT will be free from defects in material and workmanship under normal use for a period of one (1) year from the earlier of 1) 60 days after the date of initial shipment by 4FRONT ENGINEERED SOLUTIONS, INC., or 2) the date of installation of the WHEEL RESTRAINT by the original purchaser, provided that the owner maintains and operates the WHEEL RESTRAINT in accordance with this Owner's Manual.

In the event that this WHEEL RESTRAINT proves defective in material or workmanship within the applicable limited warranty period, 4FRONT ENGINEERED SOLUTIONS, INC. will, at its option:

1. Replace the WHEEL RESTRAINT, or the defective portion of either, without charge to the owner (excluding any cost of removal or reinstallation which shall be the sole responsibility of the purchaser); or
2. Alter or repair the WHEEL RESTRAINT, on site or elsewhere, without charge to the owner.

The limited warranty stated in the preceding paragraph IS EXCLUSIVE AND IT IS IN LIEU OF ANY OTHER GUARANTEES AND WARRANTIES, EXPRESS OR IMPLIED. The limited warranty does not cover any failure caused by improper installation, abuse, negligence, or failure to maintain and adjust the WHEEL RESTRAINT properly. Parts requiring replacement due to damage resulting from vehicle impact, abuse, or improper operation are not covered by this warranty. 4FRONT ENGINEERED SOLUTIONS, INC. disclaims any responsibility or liability for any loss or damage (including, without limitation, direct, indirect or consequential damages, or lost profits or production time) that results from the use of unauthorized replacement parts or modification of the WHEEL RESTRAINT. 4FRONT ENGINEERED SOLUTIONS, INC. sole obligation with regard to a WHEEL RESTRAINT that proves to be defective in material or workmanship shall be as set forth in its standard warranty above (i.e., 4FRONT ENGINEERED SOLUTIONS, INC. will, at its option, repair or replace the WHEEL RESTRAINT or portion thereof, without charge to the purchaser.).

This limited warranty does not cover any failure caused by improper installation, abuse, negligence, or failure to properly maintain and adjust the WHEEL RESTRAINT. This limited warranty will be void or of no effect if the original purchaser does not notify 4FRONT ENGINEERED SOLUTIONS, INC. warranty department within ninety (90) days after the product defect is discovered. Parts requiring replacement due to damage resulting from vehicle impact, abuse, or improper operation are not covered by this warranty. 4FRONT ENGINEERED SOLUTIONS, INC. disclaims any responsibility or liability for any loss or damage that results from the use of unauthorized replacement parts or modification of the WHEEL RESTRAINT.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, AND THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

4FRONT ENGINEERED SOLUTIONS, INC. warranties extend only to the WHEEL RESTRAINT itself.

4FRONT ENGINEERED SOLUTIONS, INC. DISCLAIMS all warranties, express or implied, responsibility or liability for loss or damage of any kind associated with the installation or maintenance of the WHEEL RESTRAINT, including any liability for premature product wear, product failure, property damage or bodily injury arising from improper installation or maintenance of the WHEEL RESTRAINT.

Please direct questions about your wheel restraint to your local distributor or to 4Front Engineered Solutions, Inc.

Your local 4Front Engineered Solutions, Inc.
distributor is:

Corporate Head Office:

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Carrollton, TX. 75006
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