

THE NOVA CONTROLL TRUCK LOCK THE TRUCK LOCK THE TRUCK LOCK THE TRUCK THE TRU

INSTALLATION, PARTS & OWNERS MANUAL



WARRANTY

NOVA TECHNOLOGY, INC. warrants the NOVA ANCHOR TRUCK LOCK ™ AND TRUCK MONITOR™ to be free of defects in material or workmanship under normal use for a period of one year from the date of shipment. This warranty does not cover any failure to properly maintain the product. This warranty is the only one given by NOVA TECHNOLOGY, INC. and is in lieu of all guarantees and warranties expressed or implied by anyone other than NOVA TECHNOLOGY, INC. including those of fitness for a particular purpose and merchantability. In order for warranty claims to be honored the products must have been properly installed, maintained and operated within their intended function and not otherwise abused.

If your NOVA ANCHOR TRUCK LOCKTM AND TRUCK MONITORTM is defective in material or workmanship and you notify NOVA TECHNOLOGY, INC. within one year of the date of shipment, NOVA TECHNOLOGY, INC. will, at its option, repair or replace the defective component(s) at no cost to you. NOVA TECHNOLOGY, INC. will not be responsible for or pay for loss of time, inconvenience, loss of the use of the product, or property damage caused by this product or its failure to work, or any incidental or consequential damages.

NOVA TECHNOLOGY, INC. reserves the right to change specifications or make product improvements without notice or obligation.

INDEX

Description			
Introduction	 		. 1
Arrangement and Function of Major Components	 		2
Installation Instructions	 	3-2	20
General Maintenance	 		21
Electrical Check List	 	2	21
Wiring Diagrams	 	22-	24
Illustrated Parts Lists			

INTRODUCTION

The Nova Technology Anchor Truck Lock ™ and Traffic Monitoring System, when properly installed and operated, offers the user substantially improved dock safety and efficiency. Its design is the result of many years of experience with loading dock operation.

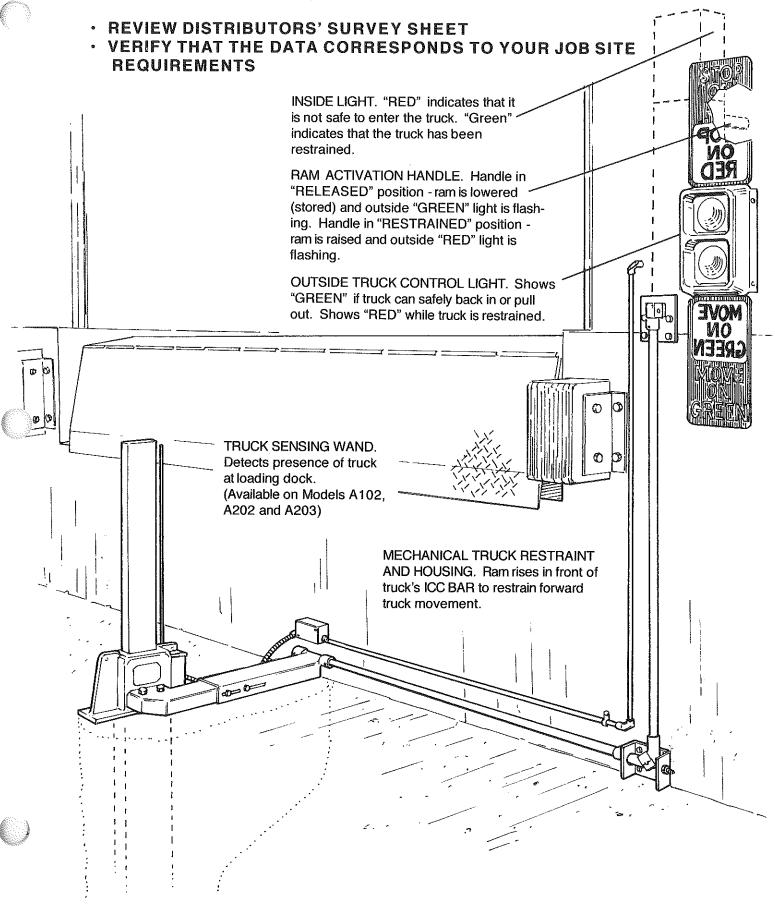
It features an easy to read inside light system for the dock attendant, a simple "stop and go" outside light system for the truck driver, and a restraining device to discourage premature or unexpected truck departure. In addition, the optional Truck Monitor system alerts the dock supervisor to truck arrivals, departures and restraint use.

Read and follow all installation and operating instructions. Be certain to read and understand all caution statements in this booklet as well as all warning labels on the equipment. Be sure all dock attendants are properly trained in the system's function and operation.

Perform periodic inspection to insure there are no worn or damaged parts which could result in equipment failure and/or personal injury.

CAUTION: BE SURE THAT INSTALLATION IS PERFORMED ONLY BY QUALIFIED PERSON-NEL AND THAT ELECTRICAL HOOK-UP IS PERFORMED BY A QUALIFIED ELECTRICIAN.

THIS VIEW SHOWS TYPICAL ARRANGEMENTS & FUNCTIONS OF MAJOR COMPONENTS FOR THE NOVA ANCHOR™



INSTALLATION INSTRUCTIONS

EVERY INSTALLATION SHOULD BE A SHOW PIECE & POTENTIAL CUSTOMER REFERENCE. PLEASE FOLLOW THESE INSTRUCTIONS AND THE INFO ON THE SURVEY SHEET.

STANDARD SUPPLIES (Per unit) Furnished by Installer

(27) 1/4" Fasteners

Concrete mix - Approx. 3 to 8 cu. ft. -- depending on concrete or asphalt drive. (Minimum strength 4000 psi)

3/4" Thinwall conduit -- 20 ft. (Activation cable run)

1/2" Thinwall conduit -- 20 ft. (Truck Sensor run)

1/2" Conduit elbows (2) (Truck Sensor run)

1/2" Wall clips (for conduit) (Truck Sensor run)

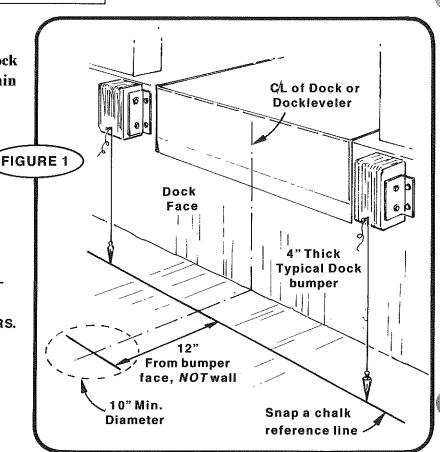
1 Junction box (Truck Sensor run)

LUBRICATING ANIFREEZE SOLUTION

- 4 C. R.V. Antifreeze (non-toxic)
- 3 C. Lightweight Hydraulic Oil
 (Brake Fluid, Power Steering Fluid, etc.)
- 1 C. Water

Caution: When unpacking the Nova Lock be careful not to lose parts that are within the specially made packing boxes.

STEP 1. Determine exact location of restraint ram housing per diagram, Figure 1. NOTE THAT ALL DIMENSIONS ARE FROM FACE OF DOCK BUMPERS. IF BUMPERS ARE NOT YET INSTALLED, ADD THICKNESS OF BUMPERS.



Note: Drawing is NOT to scale **STEP 2.** Core drill (auger, posthole digger, etc.) a 10" diameter hole minimum of 42" deep. The final shape of completed excavation depends on driveway surface.

IMPORTANT: Front support must be in full contact with the poured concrete.

Front support must rest on original Concrete drive

FIGURE 2

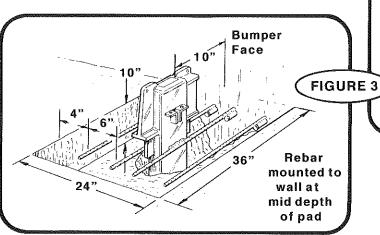
CUTAWAY SECTION
FOR CONCRETE

Dock
Face
Foundation
Wall

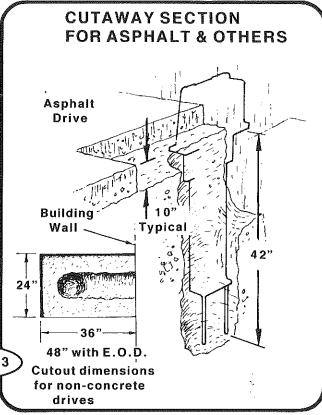
For non-concrete driveway surface, an area as shown must be cut out. This yields a much more substantial base since asphalt is subject to some movement climatically. See Figure 3 for placement of rebars when installing in a non-concrete drive.

STEP 3. Hook anchor rod through holes is housing cap as shown in Figure 2. Support housing in the augered hole and secure with concrete. NOTE: RAM HOUSING MUST BE "PLUMB" IN ALL DIRECTIONS AND BOTTOM OF FRONT SUPPORT MUST BE FLUSH WITH TOP OF DRIVE. IF INSTALLING IN UNFINISHED DRIVEWAY, BE SURE TO INSTALL AT FINISHED DRIVE HEIGHT. IF NEW DRIVEWAY IS OTHER THAN CONCRETE, PLEASE REFER TO FIG. 3 FOR PAD DIMENSIONS. CONCRETE SHOULD HAVE MIN. COMPRESSIVE STRENGTH OF 4000 PSI OR EQUIVALENT.

Note: Housing may be welded to the middle two rebars to help hold and stabilize housing during concrete pour.



REFER TO TECH. BULLETIN FURNISHED WITH REBAR.



IMPORTANT! Remember, dimension from backedge of ram to bumper face should be 10"

WHILE THE CONCRETE IS SETTING UP, YOU NOW CAN PROCEED WITH THE MOUNTING OF BRACKETS AND CONSOLE.

NOTE: BE SURE THERE ARE NO OBSTRUCTIONS ON OUTSIDE OF BUILDING WHICH WOULD INTERFERE WITH CABLE RUN BETWEEN CONTROL CONSOLE AND RAM HOUSING. POSITION CONTROL CONSOLE SO THAT ACTIVATION CABLE CLEARS DOCK BUMPERS. ALSO BE SURE THAT THERE IS ADEQUATE CLEARANCE FOR FUTURE INSTALLATION OF DOCK SEALS OR SHELTERS. See Figure 4.

! WARNING !

PRIOR TO INSTALLATION OF ACTUATION CABLE, MAKE SURE CONCRETE HAS SET UP, OR ELSE CABLE FORCE MAY LOOSEN HOUSING IN CONCRETE.

STEP 4. Remove cover from control console by removing four 3/8" x 1/2" bolts. See Figure 5.

If metal building support is required as per survey sheet, follow those instructions for correct installation.

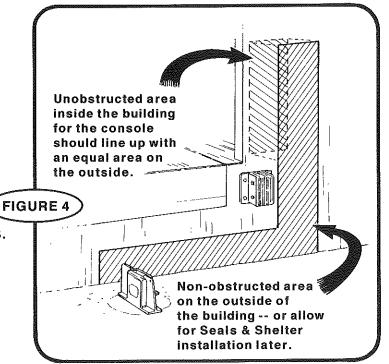
STEP 5. Temporarily place control console (with cover removed) against inside wall in desired location. Mark the four mounting holes for the pole (two on wall and two on floor) as well as the 1" dia. cable exit hole. See Figure 6.

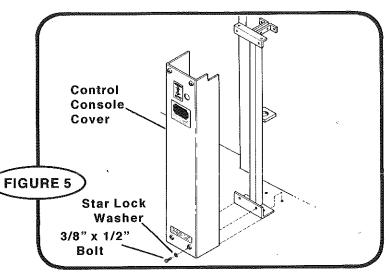
WARNING! GET THIS PART RIGHT TO AVOID CABLE RUBBING BETWEEN PULLEYS.

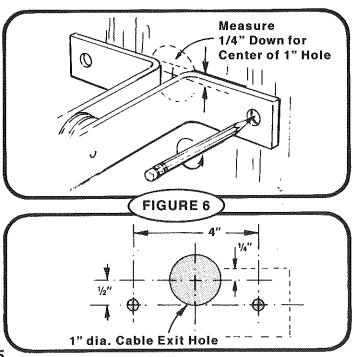
- 1. CABLE MUST RUN ON PULLEYS.
- CABLE MUST RUN LINE OF SIGHT BETWEEN PULLEYS.
- 3. CABLE MUST NOT RUB ON WALL MATERIAL.

STEP 6. First, drill the 1" dia. cable exit hole through the wall from inside at the location marked in Figure 6.

NOTE: TO PREVENT OUTSIDE CONCRETE WALL FROM CHIPPING, DRILL A 1/2" PILOT HOLE FIRST. IF INTO A BLOCK WALL, LOOSE INSULATION, ETC., SLEEVE THE HOLE WITH A SECTION OF 3/4" CONDUIT.





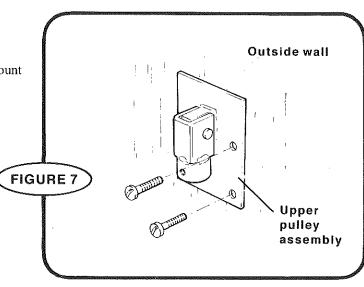


STEP 7. Replace console pole and check alignment of the 1" hole per Figure 6. Then drill mounting holes. Mount control console on inside of building wall.

NOTE:

USE EXPANSION BOLTS, TOGGLE BOLTS OR THROUGH BOLTS AS APPROPRIATE. BOLTS AND FASTENERS SUPPLIED BY INSTALLER.

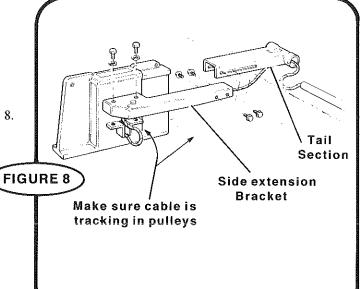
STEP 8. Mount upper outside pulley to exterior wall, being sure top of pulley aligns with center of 1" hole through wall. See Figure 7 and the note regarding anchors above.

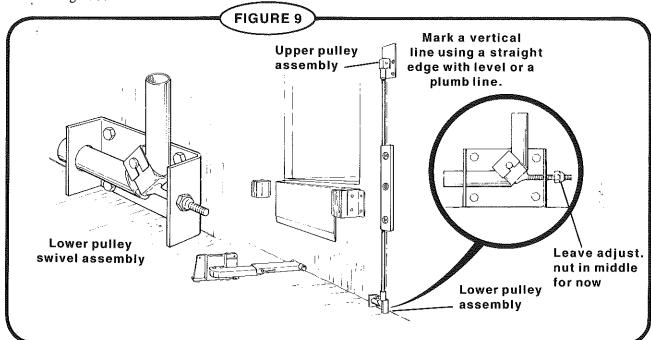


STEP 9. Route cable through side extension bracket, and bolt side extension bracket to housing as shown in Fig 8. Route cable through tail section and bolt tail section to the side extension bracket as shown in Figure 8.

NOTE: RECESSED BUILDING WALL OR DOCK FOUNDATION WALL MAY REQUIRE A PULLEY BRACKET AS PER YOUR SURVEY SHEET.

STEP 10. Mount lower pulley swivel assembly to foundation directly beneath upper pulley assembly. In northern climates, where driveway heaving (freezing) is possible, the lower puley swivel bracket may be installed 2"-3" above the drive. See Figure 9.





IMPORTANT!

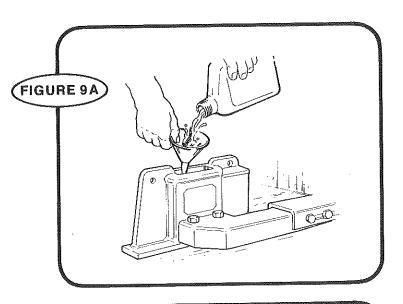
STEP 11. Remove ram from housing and carefully pour in a mixture of anti-freeze, oil and water. This combination provides lubrication and prevents freezing under normal conditions. Fee Figure 9A. This combination will fill housing to 9" and provides lubrication.

Lubricating Anifreeze Solution

4 C. R.V. anti-freeze (non-toxic)

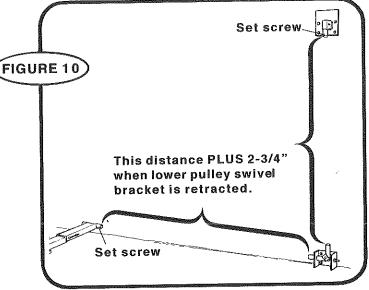
3 C. lightweight hydraulic oil (brake fluid, power steering fluid, etc.)

1 C. water

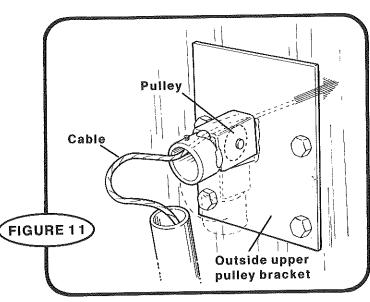


STEP 12. Measure distance between conduit collar on upper pulley bracket and conduit collar on lower pulley swivel bracket and add 2-3/4". Cut a piece of 3/4" thin wall conduit to this length. See Figure 10.

STEP 13. Measure distance from conduit collar on lower pulley to conduit collar on ram housing assembly and add 2-3/4". Cut 3/4" thin wall conduit to length as above. Slide end into tube on lower pulley swivel bracket. Thread cable from housing through conduit, into lower pulley swivel bracket, through vertical conduit and through upper pulley bracket. Allow free cable end to stick out of conduit at top pulley. Do not attempt to feed through building wall at this time. Slide end of conduit into mounting tube on ram housing and secure with set screw. See Figure 10.



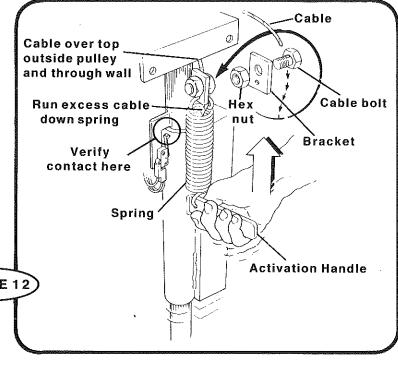
STEP 14. Route ram cable around top of upper outside pulley, into building through hole in wall, and over the pulley between wall bracket on control console. See Figure 11.

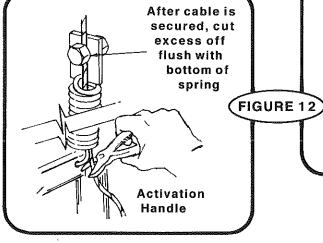


THE FOLLOWING SECTION (PGS. 8-12) OF THIS MANUAL IS FOR INSTALLATION OF MANUAL TRUCK RESTRAINTS (MODELS A100, A101, A102.)

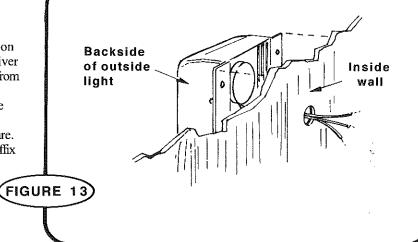
IF YOU ARE INSTALLING A PNEUMATIC UNIT (MODEL A201, A202, A203) PLEASE PROCEED TO PAGES 13-17.

STEP 1M. Raise handle to full up position. Make sure upper limit switch lever is contacting Activation Handle Tube. Pull cable tight and attach to spring using cable bolt and bracket. Run excess cable down center of spring, exiting on right side of handle. Cut off cable flush with bottom of spring. See Figure 12.

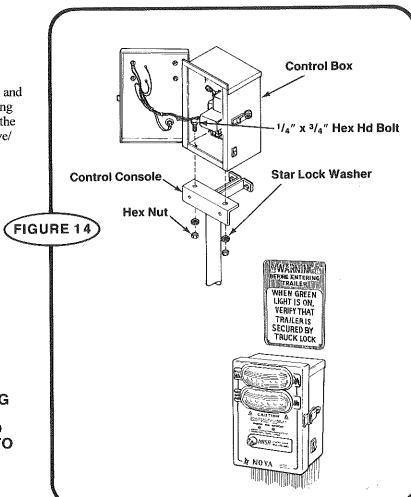




STEP 2M. Determine location of outside light on exterior of building. Light must be on truck driver side of dock door (right side when facing dock from outside) and 8' above surface of drive. Be sure location of light will not interfere with the future installation of dock shelters or seals. Drill hole through wall at approximate center of light fixture. Feed wire from light through hole in wall and affix light to wall. See Figure 13.



STEP 3M. Mount control box to top of control console using two 1/4" x 3/4" hex head bolts, nuts and lock washers. See Figure 14. Install Inside Warning sign on inside wall above control console. Attach the sign to wall with screws, bolts or a specific adhesive/mastic made for styrene to your wall material.



NOTE: ALL CONTROL AND LIGHTING CIRCUITS ARE LOW VOLTAGE. INSTALLATION OF 115V GROUNDED SUPPLY CIRCUIT MUST CONFORM TO LOCAL ELECTRICAL CODES AND CUSTOMER SPECIFICATIONS.

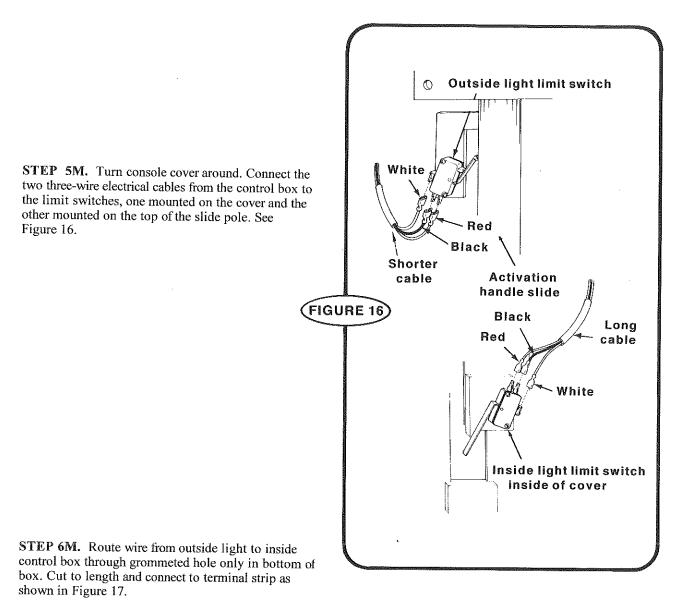
STEP 4M. Fasten printed signs to outside wall, one above and one below light, as shown in Figure 15.

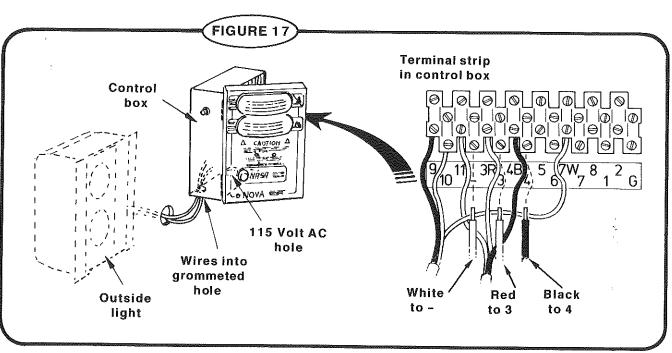
"RED" text sign should be above light and "GREEN" text sign below. Attach signs to building with fasteners or an acrylic based adhesive or mastic that won't attack styrene.

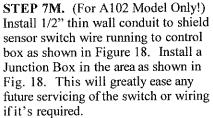
FIGURE 15

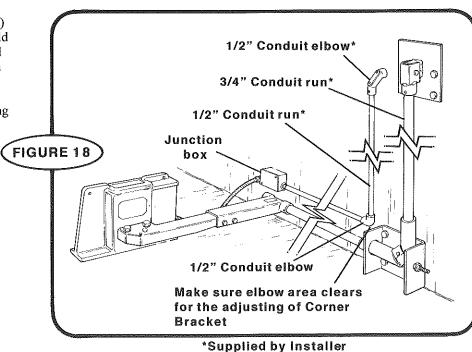
8 feet above drive (typical)

9



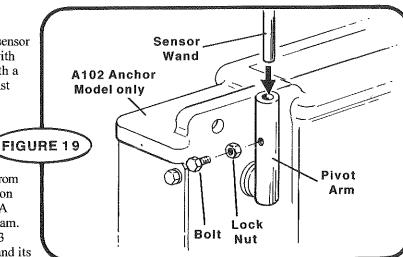


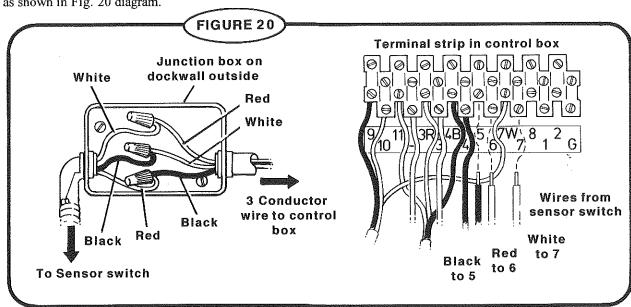


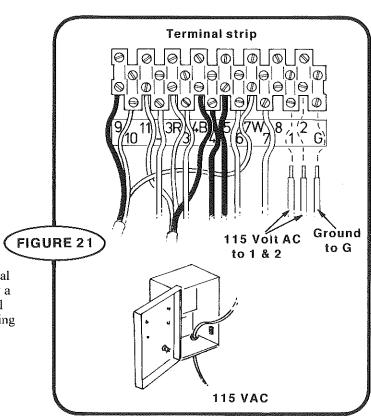


STEP 8M. (For A102 Model only!) Install truck sensor wand into pivot arm. Insert wand until it is flush with the bottom of the pivot arm assembly and secure with a 1/4" bolt and lock nut. Tighten 1/4" lock nut against pivot arm to lock bolt in place. See Fig. 19.

STEP 9M. (For A102 Model only!) Uncoil wire from sensor switch and feed through flex conduit to junction box. In junction box attach 3 conductor wire (NOVA supplied) and make connections as per Fig. 20 diagram. After connections are made and sealed properly, run 3 cond. wire through the 1/2" conduit to control box and its grommeted hole. Cut wire to length and connect to terminal strip as shown in Fig. 20 diagram.







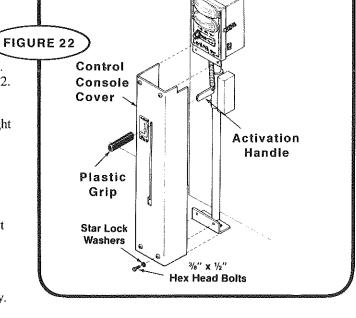
STEP 10M. Connect 115 volt AC power to Terminal Strip. See Figure 21. This may be accomplished by a conduit connection to the hole provided in the control box or by attaching the optional drop cord and plugging into a wall receptacle.

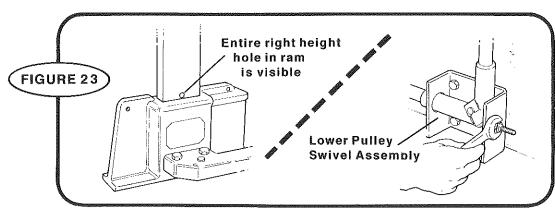
STEP 11M. Replace cover on control console and secure with four 3/8" x 1/2" bolts and star lock washers. Slide plastic grip onto Activation Handle. See Figure 22.

IMPORTANT! Make sure that wires from control box will not get tangled in activation handle, or counterweight assembly once console cover is replaced.

Step 12M. Move activation handle down into "Restrain" position which will raise restraint ram outside. Adjust ram height by turning nut on lower pulley swivel assembly. Tighten cable until entire hole in ram is just visible above top of ram housing. Do not overtighten, as ram will not completely lower when handle is raised. See Figure 23.

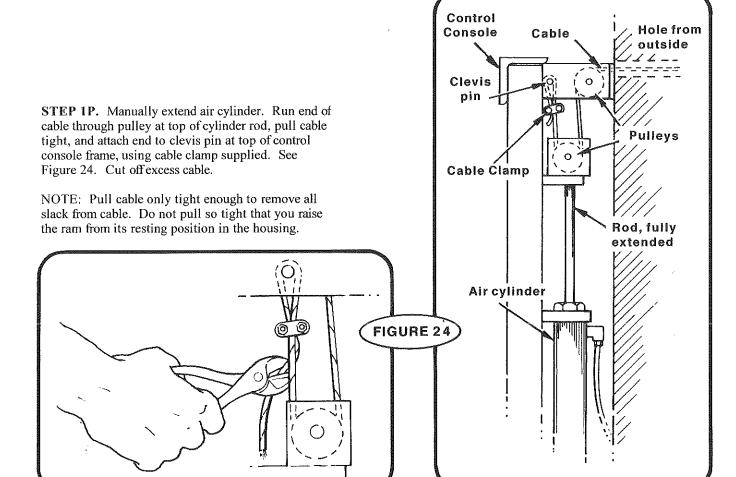
Step 13M. Test entire restraint operation along with proper light sequence and make adjustments as necessary.



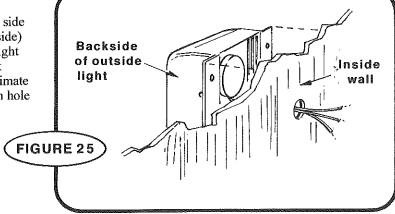


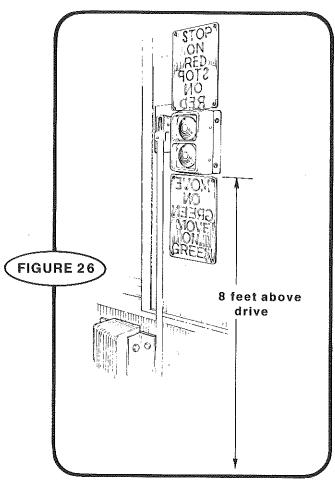
This completes the installation of a typical Manual System -- turn to page 20 for important final checks.

THE FOLLOWING SECTION (PGS. 13-17) OF THIS MANUAL IS FOR INSTALLATION OF PNEUMATIC TRUCK RESTRAINT (MODELS A201, A202 & A203).



STEP 2P. Determine location of outside light on exterior of building. Light must be on truck driver side of dock door (right side when facing dock from outside) and 8' above surface of drive. Be sure location of light will not interfere with the future installation of dock shelters or seals. Drill hole through wall at approximate center of light fixture. Feed wire from light through hole in wall and affix light to wall. See Figure 25.

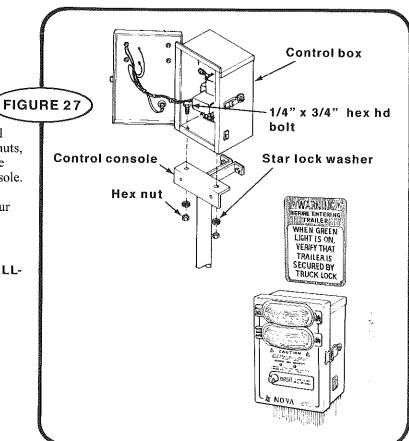


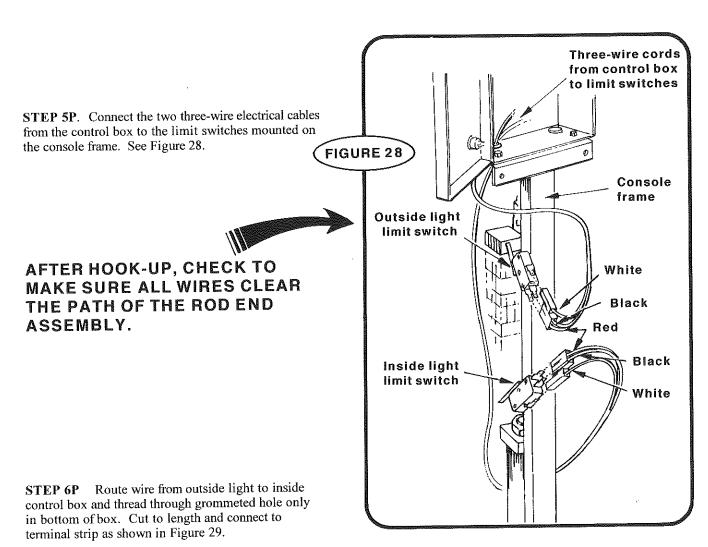


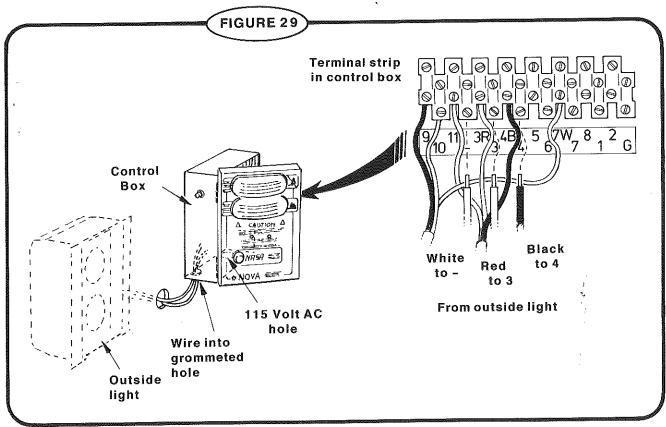
STEP 3P. Fasten printed signs to outside wall, one above and one below light, as shown in Figure 26. "RED" text sign should be above light and "GREEN" text sign below. Attach signs to building with fasteners or an Acrylic-based adhesive or mastic that won't attack styrene.

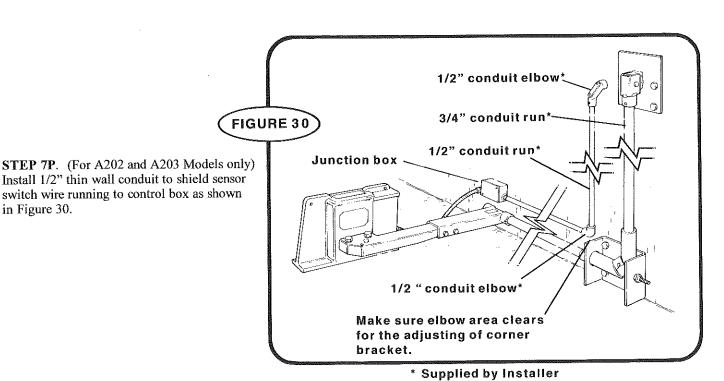
STEP 4P. Mount control box to top of control console using two 1/4" x 3/4" hex head bolts, nuts, and lock washers. See Figure 27. Install Inside Warning sign on inside wall above control console. Attach the sign to wall with screws, bolts or a specific adhesive/mastic made for stryrene to your wall material.

NOTE: ALL CONTROL AND LIGHTING CIRCUITS ARE LOW VOLTAGE. INSTALLATION OF 115V GROUNDED SUPPLY CIRCUIT MUST CONFORM TO LOCAL ELECTRICAL CODES AND CUSTOMER SPECIFICATIONS.









Sensor

A202 & A203 Anchor

Models only

Wand

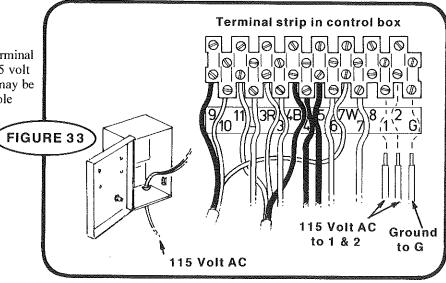
STEP 8P. (For A202 and A203 Models only!) Install truck sensor wand into pivot arm. Insert wand until it is flush with the bottom of the pivot arm assembly and secure with a 1/4" bolt and lock nut. Tighten 1/4" lock nut against pivot arm to lock bolt in place. See Fig. 31. FIGURE 31

in Figure 30.

STEP 9P. (For A202 and A203 Models only!) Uncoil wire from sensor switch and feed through flex conduit to junction box. In junction box attach 3 conductor wire (NOVA supplied) and make connections as per Fig. 32 diagram. After connections are made and sealed properly, run 3 cond. wire through the 1/2" conduit to control box and its grommeted hole. Cut wire to length and connect to terminal strip as shown in Fig. 32 diagram.

0 Pivot Arm Bolt Terminal strip in control box Red White

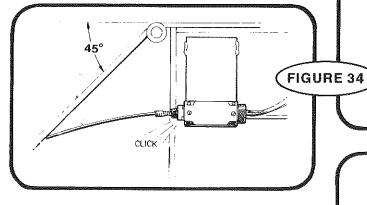
STEP 10P. Connect 115 volt AC power to terminal strip. (If installing an A203 do not connect 115 volt AC power at this time) See Figure 33. This may be accomplished by a conduit connection to the hole provided in the control box or by attaching the optional drop cord and plugging into a wall receptacle.



STEPS 11P--14P APPLIES ONLY TO MODEL A203. IF YOU ARE NOT INSTALLING MODEL A203, GO TO STEP 15P.

STEP 11P. Mount the limit switch under the dock board as shown in Figure 34. (Limit switch may also be used in conjunction with the overhead door.)

Switch is mounted in such a manner so that when dock lip is at a 45° angle, switch should click and system is activated.



STEP 12P. Route wire from limit switch into control box through the grommeted hole. Cut the wire to length and connect to the terminal strip as shown in Figure 35. Black to "A", White to "B".

STEP 13P. Route wire from solenoid valve into control box through to grommeted hole. Cut the wire to length and connect to the terminal strip as shown in Figure 35. Black to "D", Black to "E" (Either black wire in either position will work).

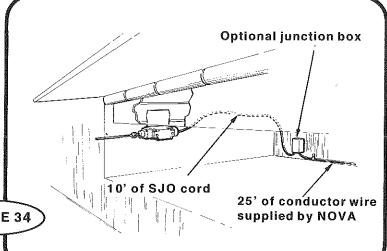
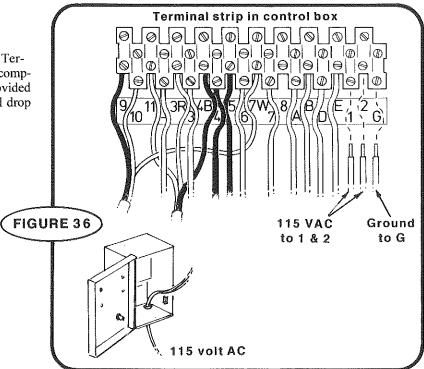


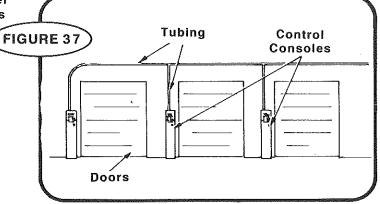
FIGURE 35

STEP 14 P. Connect 115 volt AC power to Terminal Strip. See Figure 36. This may be accomplished by a conduit connection to the hole provided in the control box or by attaching the optional drop cord and plugging into a wall receptacle.



NOTE: Air may be supplied from plant system or by small compressor. Air must be minimum of 100 pound/square inch and maximum of 130 pounds/square inch. Air must be dry and clean. Air usage is approximately .020 cubic feet per operation. Duration of normal power stroke is about 2 seconds.

STEP 15P. Run 1/4" polyethelene tubing capable of withstanding 150 psi above dock doors as in Figure 37. Plot the tees to align with the console(s).

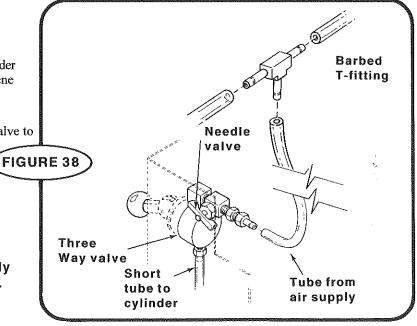


STEP 16P. Run polyethylene tubing from header tee to control valve barb fitting. Cut polyethylene tubing to allow for cover removal.

STEP 17P. Connect short tube from control valve to barb fitting on air cylinder. See Figure 38.

STEP 18P. Turn air supply on.

CAUTION! Be sure to keep hands clear of air cylinder, pulley assembly and cable when retracting cylinder. Personal injury could result.



STEP 19P. Replace control console cover and secure with four 3/4" x 1/2" bolts and star lack washers.

STEP 20P. Move control valve lever up to "RESTRAIN" position.

STEP 21P. The unit is shipped with the needle valve 3/4 turn open.

STEP 22P. Move control lever to down and lower ram.

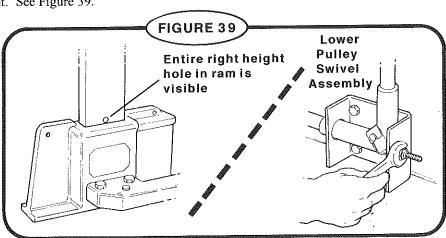
NOTE: Lowering speed is not adjustable and is controlled by internal orifice.

STEP 23P. Cycle unit again. Turn adjusting knob on needle valve out to increase rise speed and in to decrease speed. Continue to cycle unit until desired speed is obtained.

NOTE: When properly adjusted, the ram should fully rise in 1 to 2 seconds. There should be less than 1/2" of "hop" by the ram at the end of the rise stroke.

CAUTION: Adjusting needle valve so that ram rises too fast can cause unnecessary stress on the unit and may present a danger to personnel.

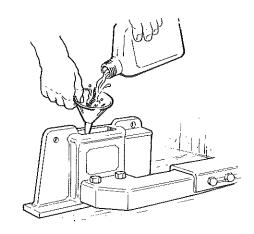
STEP 24P. Move control lever to "RESTRAINED" position. Adjust ram height by turning nut on lower pulley swivel assembly. Tighten cable until right height hole in ram is just visible above top of ram housing. Cycle unit several times to check cable adjustment. See Figure 39.



CAUTION: If ram does not completely lower, cylinder damage could result and range of Truck Lock will be reduced.

This completes the installation of a typical pneumatic system -- see page 20 for important final checks.

IMPORTANT CHECKS!



Remove ram from housing and carefully pour in a mixture of RV antifreeze, oil and water. This combination provides lubrication and prevents freezing under normal operating conditions.

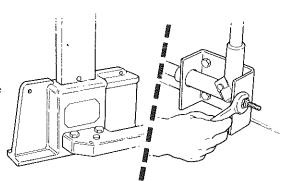
LUBRICATING ANTIFREEZE SOLUTION

4 C. RV antifreeze (non-toxic)

3 C. lightweight hydraulic oil (brake fluid, power steering fluid, etc.)

1 C. water

Adjust cable length by turning nut on lower pulley assembly. Tighten cable until entire right height hole in ram is visible above top of ram housing. Do not overtighten as ram will not completely lower when lever is released.



Pack up tools, clean up any installation debris for a professional touch that's appreciated by the customer.

GENERAL MAINTENANCE

CAUTION: BE SURE THAT MAIN POWER TO UNIT IS SHUT OFF PRIOR TO PERFORMING ANY MAINTENANCE OR REPAIR!

DAILY

Operate the TRUCK LOCK to assure it is in proper working condition. Replace damaged or missing light bulbs and lenses.

ANNUALLY - ALL MODELS

- For best performance, remove old, used fluids (siphon, drill pump, shop vac) and replace with new mixture.
- Replace all outside light bulbs.

LUBRICATING ANTIFREEZE SOLUTION

4 C. RV antifreeze (non-toxic)

3 C. lightweight hydraulic oil (brake fluid, power steering fluid, etc.)

1 C. water

ELECTRICAL TROUBLESHOOTING

NOTE: IN CASE OF ELECTRICAL MALFUNC-TION, REFER TO ELECTRICAL TROUBLE-SHOOTING GUIDE AS WELL AS THE WIRING DIAGRAM. Be sure that the main power to the unit is shut off prior to performing any electrical work. Electrical troubleshooting and repair should be performed only by a qualified electrician.

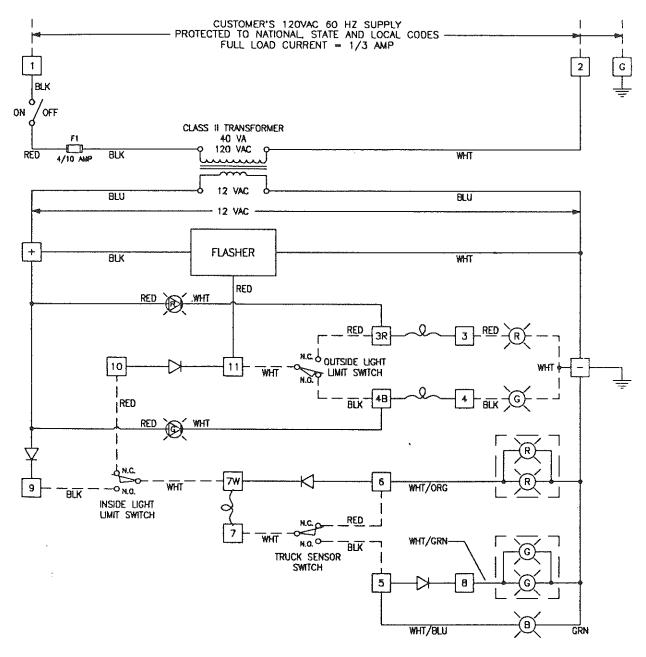
LIGHT FUNCTIONS AND RELATED COMPONENTS

All 115V power to unit, fuse, flasher, power switch, transformer outside light, inside light limit switch. Outside Red Bulb, outside light limit switch, flasher module Outside Green Bulb, outside light limit switch, flasher module		LIGHT MALFUNCTION Inside Red (constant)	RELATED COMPONENTS Bulb, inside light limit switch, outside sensor limit switch, flasher module	
		Inside Green	Bulb, inside light limit switch, outside sensor limit switch, flasher module	
		Blue (flashing)	Bulb, inside light limit switch, outside sensor limit switch, flasher module	
Both Outside Lights	Common lead to lights, outside light limit switch, flasher module	Blue (constant)	Bulb, inside light limit switch, outside sensor limit switch, flasher module	
Inside Red (flashing) Bulb, inside light limit switch, flasher module		All Inside Lights	Common lead to lights (cover), inside light limit switch, flasher module	
		Inside Red L.E.D. Inside Green L.E.D.	Outside red or outside green bulb, L.E.D. bulb	

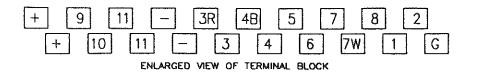
ELECTRICAL COMPONENT CHECK

COMPONENT	Fuse	CHECK	Visual and continuity
	Power switch		Disconnect and check continuity
	Transformer		Disconnect and check primary continuity and secondary continuity.
	Limit switches		Disconnect and check continuity common/normally open, common/normally closed.

"Anchor" TRUCK LOCK TM ELECTRICAL SCHEMATIC - A102, A202



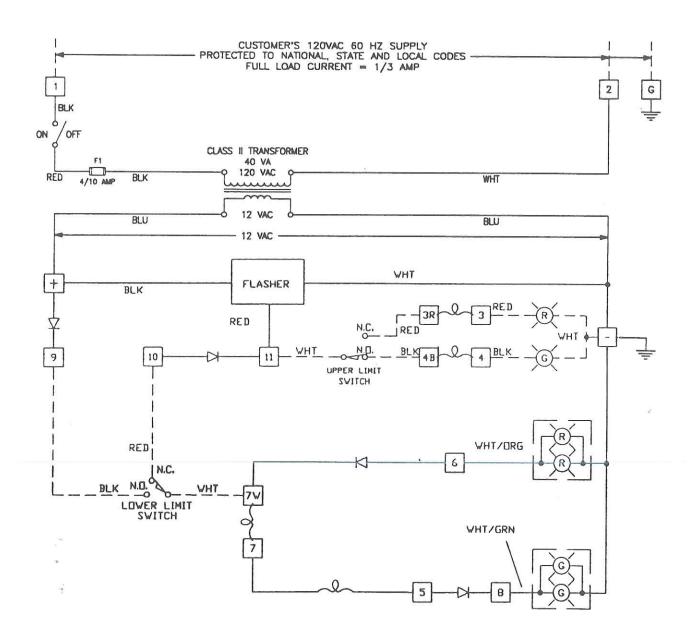
NOTE: CIRCUIT SHOWN WITH POWER OFF - NO TRUCK IN POSITION - UNRESTRAINED



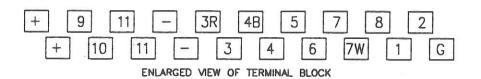
INTERLOCK FEED

Associated equipment such as a dockleveler or door may be interlocked so that they can only be operated when TRUCK LOCK is in restraining position. Consult factory for Specific Application.

"Anchor" TRUCK LOCKTM ELECTRICAL SCHEMATIC - A101, A201



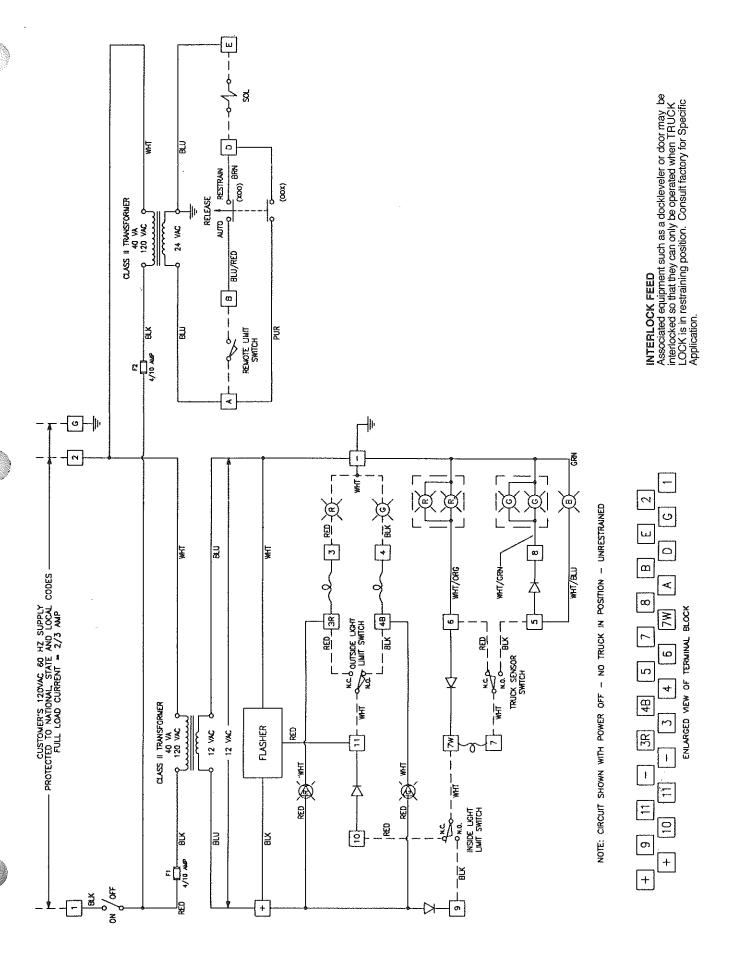
NOTE: CIRCUIT SHOWN WITH POWER OFF - NO TRUCK IN POSITION - UNRESTRAINED



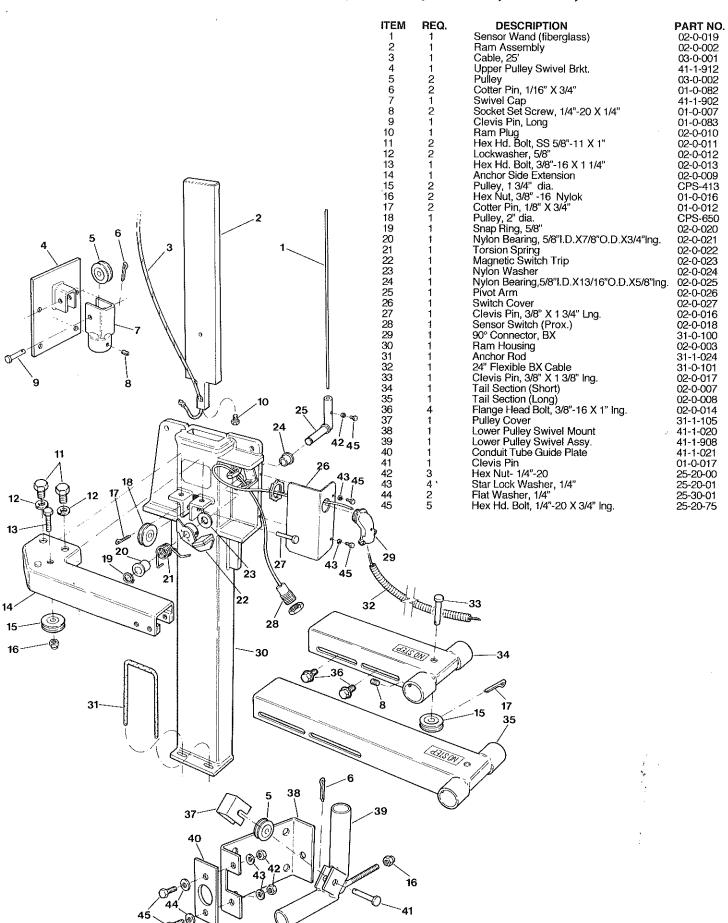
INTERLOCK FEED

Associated equipment such as a dockleveler or door may be interlocked so that they can only be operated when TRUCK LOCK is in restraining position. Consult factory for Specific Application.

"Anchor" TRUCK LOCKTM ELECTRICAL SCHEMATIC - A203

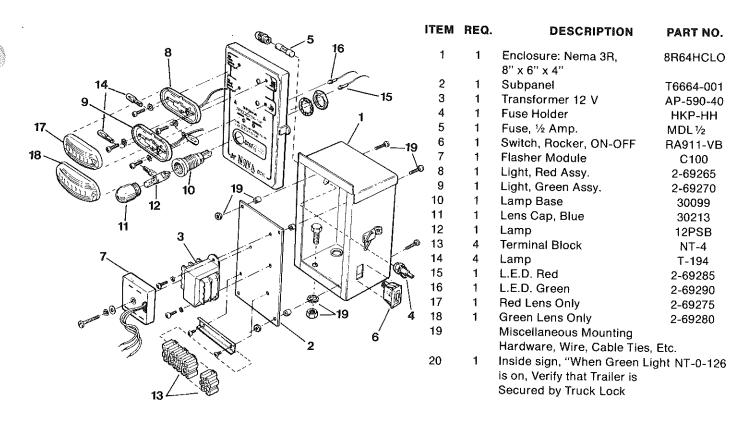


"Anchor" RAM & RAM HOUSING ASSEMBLY MODELS A100, A101, A102, A201, A202, A203

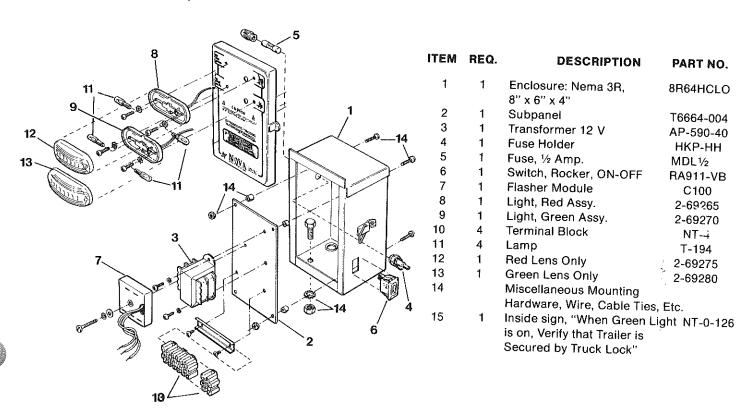


25

A102,A202 CONTROL BOX ASSEMBLY

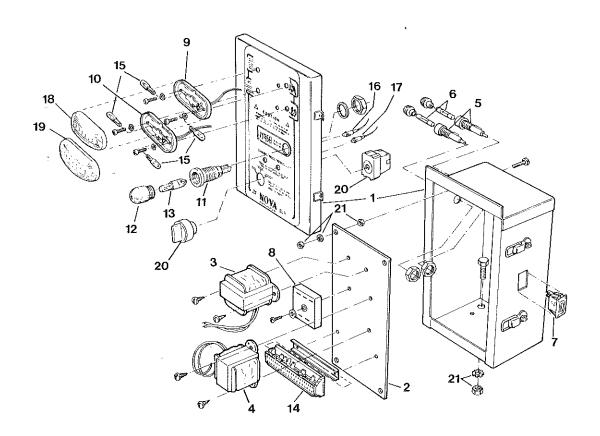


A101, A201 CONTROL BOX ASSEMBLY



A203 CONTROL BOX ASSEMBLY

ITEM	REQ.	DESCRIPTION	PART NO.
1	1	Enclosure: Nema 3R, 10" x 8" x 6"	10R86HCLO
2	1	Subpanel	T6664-005
3	1	Transformer (12 volt)	AP-590-40
4	1	Transformer (24 volt)	AP-590-80
5	2	Fuse Holder	HKP-HH
6	2	Fuse ½ Amp	MDL $\frac{1}{2}$
7	1	Switch, Rocker, ON-OFF	RA911-VB
8	1	Flasher Module	C100
9	1	Light, Red Assy.	2-69265
10	1	Light, Green Assy.	2-69270
11	1	Lamp Base	30099
12	1	Lens Cap, Blue	30213
13	1	Lamp	12PSB
14	6	Terminal Block	NT-4
15	4	Lamp	T-194
16	1	LED Red	2-69285
17	1	LED Green	2-69290
18	1	Red Lens Only	2-69275
19	1	Green Lens Only	2-69280
20	1	ZA Selector Switch	9001D4G3S
21		Miscellaneous Mounting	
		Hardware, Wire, Cable Ties, Etc.	
22	1	Inside sign, "When Green Light	NT-0-126
		is on, Verify that Trailer is	
		Secured by Truck Lock	



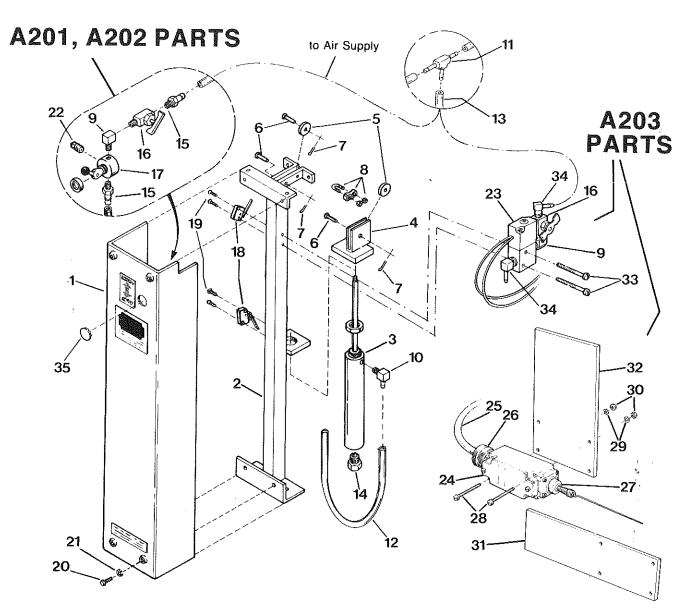
A100, A101, A102 CONSOLE ASSEMBLY

16		3-6	9	5 1 6	20 14 18 17 19 19
11 8	(a)			6	
-, \	\	J.	<i>_</i>		

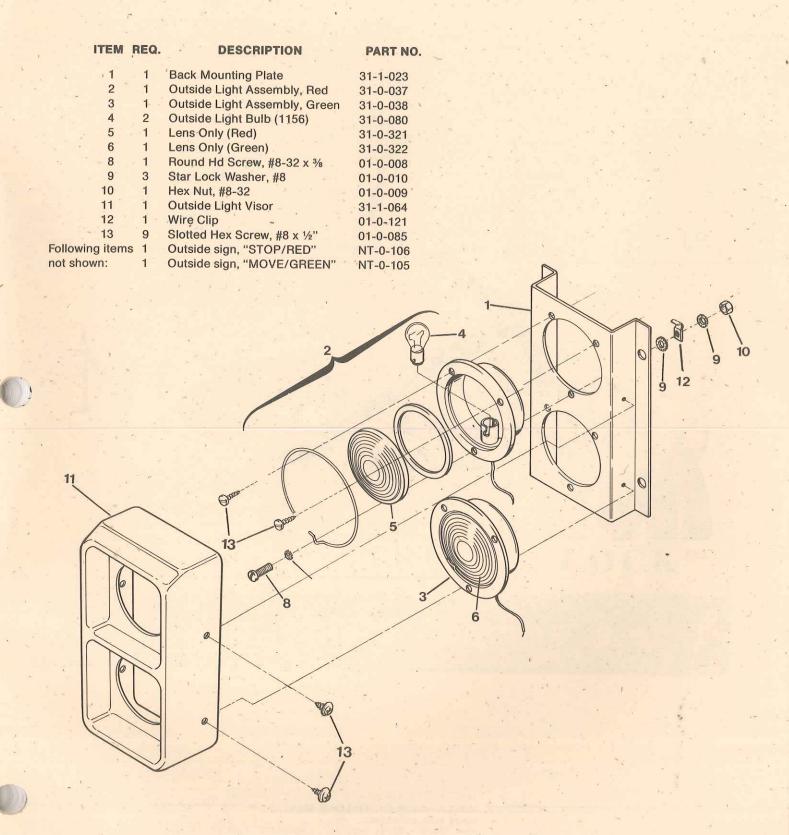
HEM	HEQ	DESCRIPTION	PART NO.
1	1	Cable Bracket	31-1-075
2	1	Cable Bolt	31-1-076
3	1	Hex Nut-Cable Bracket, 1/2" - 13	01-0-020
4	1	Slide Pole Assembly	31-1-907
5	1	Cover Assembly	31-1-908
6	1	Limit Switch	31-0-035
7	4	Hex Hd Bolt, 3/8" - 16 x 1/2"	01-0-001
8	4	Star Lock Washer, 3/8"	01-0-002
9	1	Counterbalance Spring	31-0-201
10	1	Pulley	03-0-002
11	1	Handle Cover	31-0-062
12	2	Round Hd Screw, #4-40 x 5/8"	01-0-006
14	1	Cotter Pin, 1/16" x 3/4"	31-0-082
15	1	Clevis Pin	01-0-017
16	2	Round Hd Screw, #4-40 x 3/417	31-0-096
17		Star Lock Washer #4	31-0-097
18	2	Hex Hd Nut, #4-40	31-0-098
19	1	Dampener	31-1-031
20	1	Limit Switch w/roller	31-0-035X

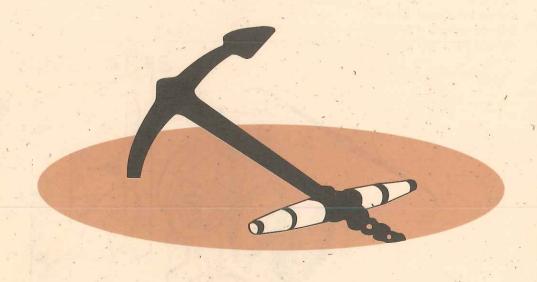
A201, A202, A203 CONSOLE ASSEMBLY

ITEM	REQ.	DESCRIPTION	PART NO.	ITEM	REQ.	DESCRIPTION	PART NO.
1	1	Console Cover	31-1-305	23	1	Solenoid Valve	P26023-6
2	1	Cylinder Pole Assembly	31-1-932	24	1	Limit Switch	SDC54K
3	1	Air Cylinder - 12" Stroke	02-0-001	25	1	12' SJO Cord	1219227
4	1	Cylinder Rod Assembly	31-1-931	26	1	SJO Cord Grip	1218230
5	2	Pulley	03-0-002	27	1	Spring Head	SDC54KH
6	3	Clevis Pin	01-0-017	28	2	Screw, #10-24 x 2"	10-24-200
7	3	Cotter Pin 1/16" x 3/4" Lg.	01-0-082	29	2	Lock Washer #10	10-0-023
8	1	Cable Clamp	01-0-101	30	2	Hex Nuts #10-24	10-24-000
9	1	Street Elbow	07-0-001	31	1	Vertical Mnt Plate	40-1-005
10	1	90° Male Elbow 1/4" Tube x Barbed Fitting	07-0-015	32	1	Hrzntl Mnt Plate	40-1-004
11	1	T-Barbed Fitting	07-0-017	33	2	Screw #6-32x1"	01-0-010
12	1	Plastic Tube 2' lg. x 1/4" O.D. x .040 Wall	07-0-007	34	2	90° Male Elbow 1/8"	07-0-694
13	1	Plastic Tube 25' lg. x 1/4" O.D. x .040 Wall	07-0-008			Tube x Barbed	
14	1	Breather Vent	07-0-022	35	1	300ZA Console Plug	01-0-612
15	2	Male Connector	01-0-684			G	
16	1	Needle Valve	07-0-011				
17	1	3-Way Valve	07-0-012				
18	2	Limit Switch	31-0-035				
19	4	Round Head Screw, #4-40 x 3/4"	01-0-005				
20	4	Hex Head Bolt %"-16 x 1/2"	01-0-001				
21	4	Star Lock Washer, %"	01-0-002				
22	1	Valve Orifice	41-1-008				



OUTSIDE LIGHT ASSEMBLY ALL MODELS, EXCEPT A100





NOVA ANCHOR TRUCK LOCK MANUAL ©1999 NOVA TECHNOLOGY, INC. Nova Place - 23 S. Main St. - Hartford, W 53027 Phone (414) 673-6564 1-800-236-7325 FAX (414) 673-7728 NOVA TRUCK LOCK & Logos are the Trademarks of NOVA TECHNOLOGY, INC. All rights reserved. Printed on Recycled Paper. Art by R.F. Schwengel