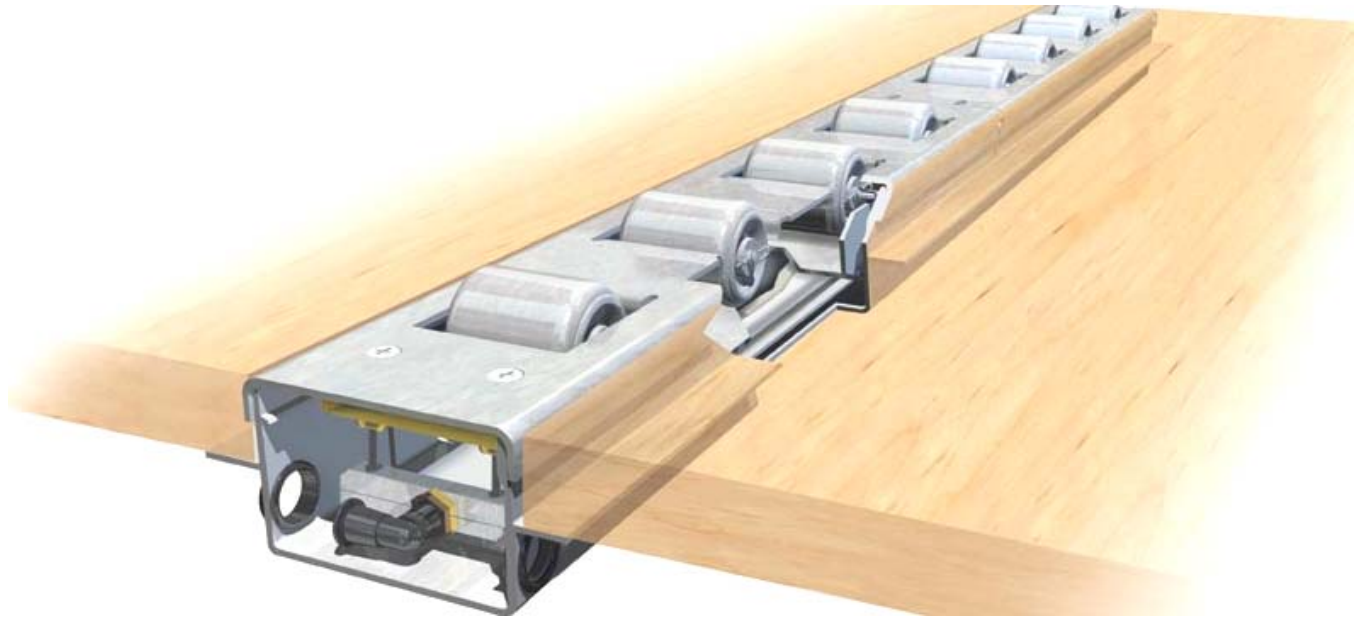


**ANCRA**  
**INTERNATIONAL** **RETRACT·A·ROLL® II**

Operation and Maintenance Manual

# RETRACT·A·ROLL® II



**ANCRA**  
**Material Handling Systems**

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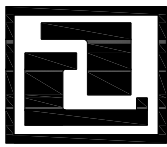
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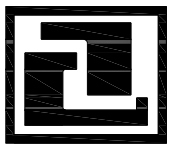
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## Operation and Maintenance Manual

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## **Operation and Maintenance Manual**

### **Normal Operation**

1. Operate the truck or tractor long enough to charge air reservoir(s) to full brake system operating pressure ( $100 \pm 5$  psi).

**Note: On trailer mounted systems the air reservoir is charged normally when the trailer is connected to the tractor allowing airflow into the reservoir.**



**WARNING! NEVER MOVE TRUCK/TRAILER WITH ROLLERS IN THE UP POSITION**

2. Check air pressure regulator to ensure it is set at  $30 \pm 5$  psi.

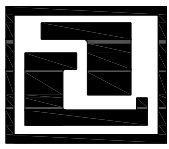


**WARNING! RETRACT-A-ROLLER SYSTEM PRESSURE ABOVE 35 psi CAN CAUSE SYSTEM FAILURE AND SEVERE PERSONAL INJURY**

3. All roller conveyors are raised simultaneously by operating the main control valve.
  - a. Move the valve handle in line with the airflow path to raise the roller system.
  - b. Move the valve handle across the flow airflow path to lower the system.
4. Installations are normally set up to allow control of individual lanes of conveyor. You may isolate individual lanes of conveyor by turning the lane control valves located in the control box.
5. If vehicle is to be loaded with bulk or non-palletized/containerized cargo, ensure conveyor is lowered to avoid damage to system components.
6. All airlines and components, tank(s) and control box are externally mounted beneath the truck/trailer chassis and are easily accessible for removal and or replacement.



**WARNING! ENSURE CONTROL BOX LID IS CLOSED AND SECURE BEFORE MOVING TRAILER. UNSECURED DOOR CAN COME LOOSE AND CAN CAUSE PROPERTY DAMAGE AND SEVERE PERSONAL INJURY.**



## **Operation and Maintenance Manual**

### **Auxiliary Air Operation**

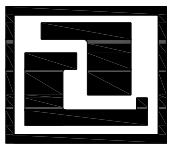
1. In situations where the air system is empty and normal recharging is impractical, an auxiliary air inlet, "Schrader Valve" (standard tire valve), is located within the system control box. This valve provides an attachment point for shop air using a standard tire inflation connector with gauge.
2. For continuous air supply, attach shop air and use system as required.
3. To fill air reservoir, attach shop air with system in the down position.



**WARNING! NEVER FILL AIR RESERVOIR OVER 105 psi**



**WARNING! NEVER MOVE TRUCK/TRAILER WITH ROLLERS IN THE UP POSITION**



## **Operation and Maintenance Manual**

### **Truck/Trailer Loading**

1. Insure truck/trailer is aligned with and against loading dock with brakes set and cargo compartment door(s) open.

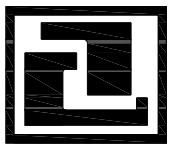


**WARNING! TRUCK/TRAILER MUST BE LEVEL OR SLIGHTLY NOSE DOWN TO PREVENT PALLETS/CONTAINERS FROM ROLLING OUT UNCONTROLLED WITH ROLLERS IN THE UP POSITION.**

2. Check cargo compartment to ensure floor is free of debris. If pallet stops are installed, be sure they are in the down position.
3. Adjust the height of the loading ramp to be ½” above the trailer floor. This will allow for roller lift clearance.
4. Raise system rollers and cargo by opening the R-A-R system control box and moving the main control valve handle to the “UP” position.
5. Move pallets/containers into vehicle one at a time. If pallet stops are installed, raise them behind each pallet/container once loaded.

**Note: Truck/trailer height may change as a result of cargo unloading. This will require adjustment of the loading ramp height in order to maintain proper floor to ramp elevation.**

6. Lower system rollers by opening the R-A-R system control box and moving the main control valve handle to the “DOWN” position.



## **Operation and Maintenance Manual**

### **Truck/Trailer Unloading**

1. Insure truck/trailer is aligned with and against loading dock with brakes set and cargo compartment door(s) open.

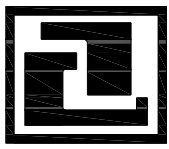


**WARNING! TRUCK/TRAILER MUST BE LEVEL OR SLIGHTLY NOSE DOWN TO PREVENT PALLETS/CONTAINERS FROM ROLLING OUT UNCONTROLLED WITH ROLLERS IN THE UP POSITION.**

2. Adjust the height of the loading ramp to be ½” above the trailer floor. This will allow for roller lift clearance.
3. Raise system rollers and cargo by opening the R-A-R system control box and moving the main control valve handle to the “UP” position.
4. If pallet stops are installed, lower them behind each pallet/container before each pallet/container is unloaded. Move pallets/containers onto loading dock one at a time.

**Note: Truck/trailer height may change as a result of cargo unloading. This will require adjustment of the loading ramp height in order to maintain proper floor to ramp elevation.**

5. Lower system rollers by opening the R-A-R system control box and moving the main control valve handle to the “DOWN” position.



## Operation and Maintenance Manual

### System Maintenance and Checks

**Note: Record all weekly, monthly and semi-annual checks for future maintenance reference and warranty compliance.**

#### ***Daily Pre-Use System Maintenance***

1. Drain reservoir(s) – Pull relief valve chain located at the bottom of the air tank(s) to release condensation build-up.

#### ***Weekly System Check***

1. With air tank(s) fully charged to  $100 \pm 5$  psi, check regulator to ensure it is functioning properly. The regulator should read  $30 \pm 5$  psi.
2. Raise conveyor system and check rollers for smoothness of operation and for any damage to the conveyor.
3. Repair as required.

#### ***Monthly System Check***

1. Perform RAR Air System Leak Check.
2. With conveyor system raised check rollers for smoothness of operation and for any damage to the conveyor
3. Repair as required.

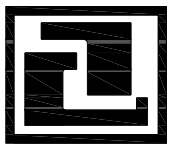
#### ***Semi-Annual System Check***

1. With conveyor lowered and air system depleted, remove cover plates and eliminate any accumulated dirt and debris from roller trays and main channel.



**WARNING! BE SURE CONVEYORS ARE IN THE LOWERED POSITION AND AIR SYSTEM IS DEPLETED BEFORE REMOVING ANY COMPONENTS.**

2. Reinstall roller trays and cover plates.
3. Perform Monthly System Check.



## **Operation and Maintenance Manual**

### ***Air System Leak Check***

#### ***Supply System Inspection***

1. Check all exposed under trailer RAR System airlines, connectors, fittings and tanks for holes, cracks and obvious damage. Inspect the trailer brake line connections, airlines, tanks, fittings, RAR Control Box connections and lines to the tray assemblies.
2. If damage is found, repair as necessary.
3. If no damage is found or following RAR Supply System repair, perform RAR Supply System Leak Check.

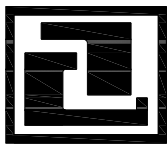
#### ***Supply System Leak Check***

1. With trailer brake system pressurize and trailer brakes set, check RAR Supply System for air leaks using soapy water or leak detection solution. Check from the trailer brake line connections, airlines, tanks and fittings to the RAR Control Box.
2. If leaks are detected, deflate brake system, repair as necessary, and repeat Supply System Leak Check until no supply system leaks are detected.
3. If no leaks are detected, perform Roller System Leak Check.

#### ***Roller System Leak Check***

1. With trailer brake system pressurized and trailer brakes set, check regulator to ensure it is functioning properly. The regulator should read  $30 \pm 5$  psi.
2. Raise system rollers using Main Control Valve, then shut all lane Isolation Valves.
3. After 30 minutes – apply 200lbs pressure to single roller, or double roller in the case of skate wheels, at the center of each top plate.
4. If top of weighted roller(s) remain above top plate and allows weight to roll, proceed to next location. If all lanes pass, RAR Air System Leak Check is complete.
5. If top of weighted roller(s) retracts to top plate level and does not allow weight to roll, note lane number/location, and proceed to next lane. Perform Lane System Leak Check for lane(s) suspected of leaks.





## Operation and Maintenance Manual

### Air System Leak Check, continued...

#### Lane System Leak Check

1. With trailer brake system pressurized and trailer brakes set, briefly open Isolation Valve on affected lane and check under trailer lines of affected lane for leaks using soapy water or leak detection solution.
2. If leaks are detected, lower lanes using Main Control Valve and replace any leaking parts. Repeat Lane System Leak Check.
3. If no leaks are detected, repeat Roller System Leak Check on affected lane. If affected lane fails Roller System Leak Check again, proceed to Bag Leak-down Test.

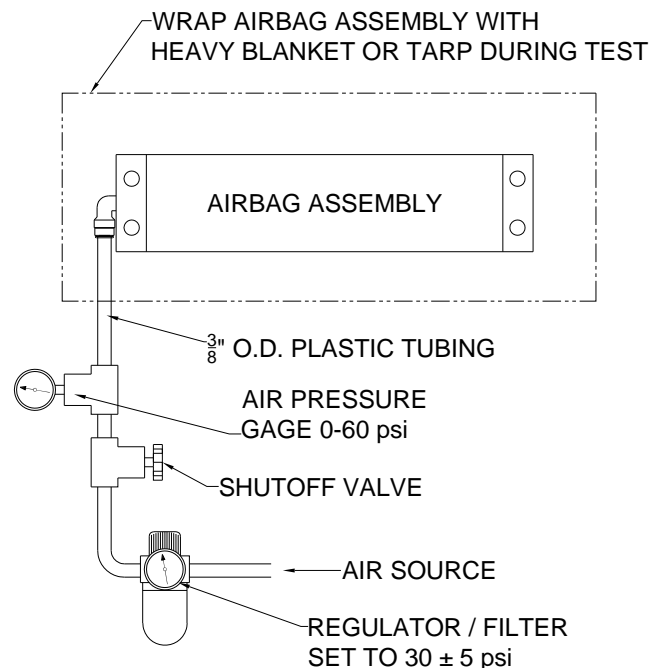
#### Airbag Leak-down Test

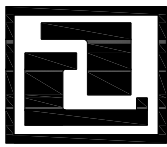
1. Using setup similar to illustration, regulate air source pressure to  $30 \pm 5$  psi before attaching to bag.



**WARNING! DO NOT PERFORM THIS TEST WITHOUT A HEAVY BLANKET OR TARP LOOSELY WRAPPED AROUND THE AIRBAG IN CASE OF RUPTURE.**

2. Ensure shutoff valve to off position and attach plastic tube to airbag inlet and wrap bag loosely in a heavy blanket or tarp.
3. Open shutoff valve slowly to allow airbag to inflate slowly. Allow pressure gage to stabilize to  $30 \pm 5$  psi.
4. Close Shutoff valve and allow the airbag to set for fifteen minutes.
5. Airbag should not leak more than 8 psi, down to 22 psi on the pressure gage, in the fifteen-minute period.
6. If airbag loses more than 8 psi, the airbag must be replaced.





## Operation and Maintenance Manual

### Conveyor Disassembly

#### Repair and Replacement

1. Your Retract-A-Roll system was designed for ease of maintenance and parts replacement. All conveyor system components are easily removed for cleaning or repair without disturbing the adjacent floor or main conveyor channel.



**WARNING! BE SURE CONVEYER IS IN THE LOWERED POSITION AND AIR SYSTEM IS DEPLETED BEFORE REMOVING ANY COMPONENTS.**

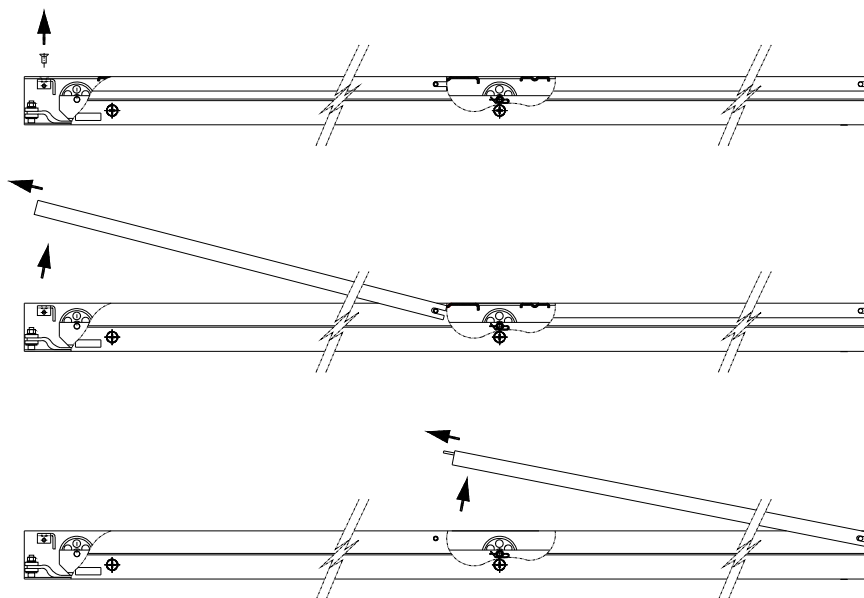
#### Cover Plate Removal and Installation

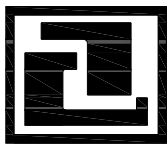
Removal:

1. Remove 2ea top plate screws; pull up and back to free the first top plate from the retaining pins on the main channel; pull up and back to free the second top plate from the retaining pins at the far end of the main channel.

Installation:

1. Clean out any accumulated dirt and debris prior to installing cover plates. Reinstall the cover plates by reversing the process above.



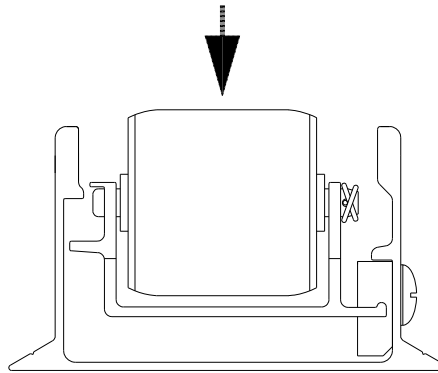


## Operation and Maintenance Manual

### ***Roller Tray Removal and Installation***

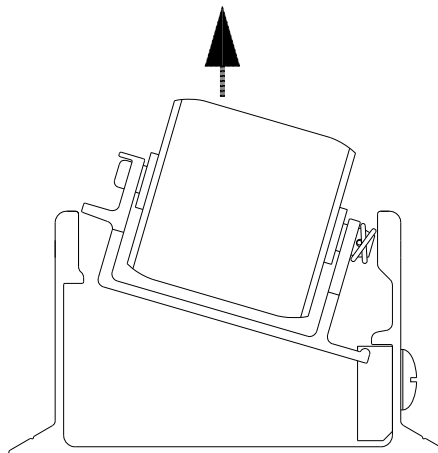
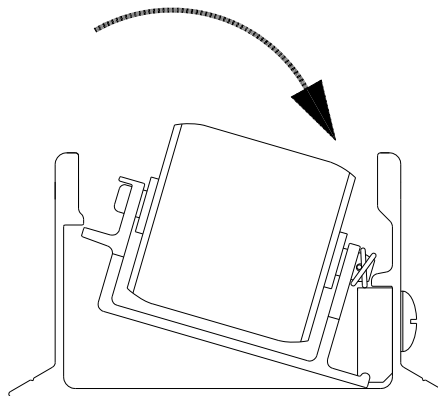
Removal:

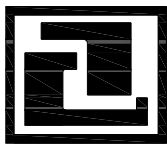
1. Remove cover plates; push roller tray down and to the side to rotate roller tray within main channel enough to clear inside flanges and remove tray.



Installation:

1. Clean out any accumulated dirt and debris prior to installing roller tray. Reinstall the roller tray by reversing the process above.

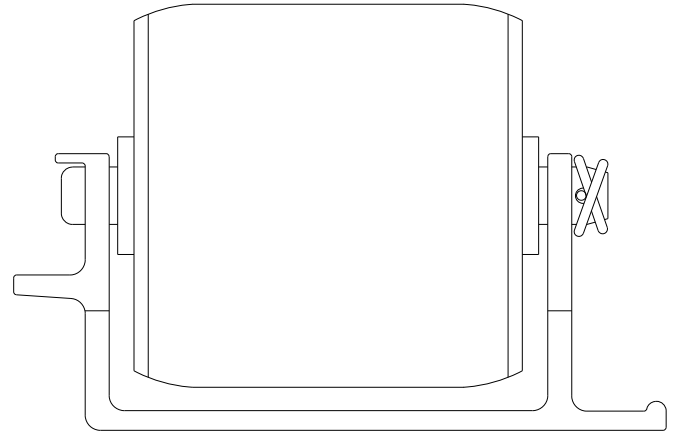




## Operation and Maintenance Manual

### ***Roller Replacement***

1. Remove the cover plates and roller tray to access individual rollers. Remove the rue ring at the end of the roller shaft. When replacing rollers, be sure the “T” head of the roller shaft is UNDER the flange on the roller tray. Reinstall the rue ring on the opposite end of the shaft. Check to insure roller rotates freely on shaft before reinstalling roller tray. Clean out any accumulated dirt and debris prior to installing roller tray. Reinstall the roller tray and cover plates.



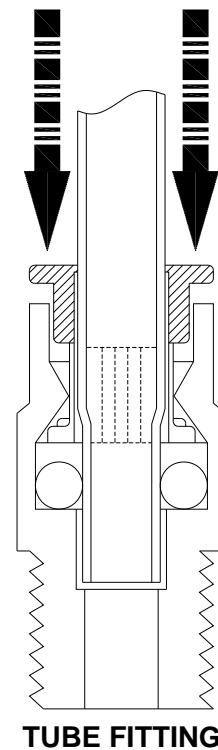
### ***Air Bag Removal and Installation***

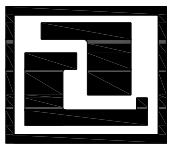
Removal:

1. Remove the cover plates and roller trays. Disconnect the airlines from the airbag fitting by pushing in on the locking collar of the fitting. Lift airbag out of the main channel. If airbag is suspected of excessive air leakage, see “Leak-down Test.”

Installation:

1. Clean out any accumulated dirt or debris prior to installing airbag. Layout airbag and connect airline by fully inserting the airline into the airbag fitting. Check to ensure airline is secure. Reinstall roller trays and cover plates. Pressurize system, raise conveyors and check for air leaks.





## **Operation and Maintenance Manual**

### **Replacement Parts**

1. The following pages contain schematics of the control and supply systems as well as identification and part number information for all components of the RAR II system.

### **System Identification**

1. The part number on the nameplate located inside the control panel door can identify the system installed in your vehicle. In absence of a nameplate, see the system diagrams for identification.

### **Part Ordering**

1. When ordering please be prepared to provide part numbers, descriptions, quantity and length for top plates, roller trays airbags, ect. Use only Ancra International original equipment parts for replacement.

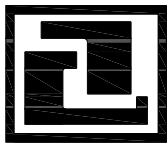
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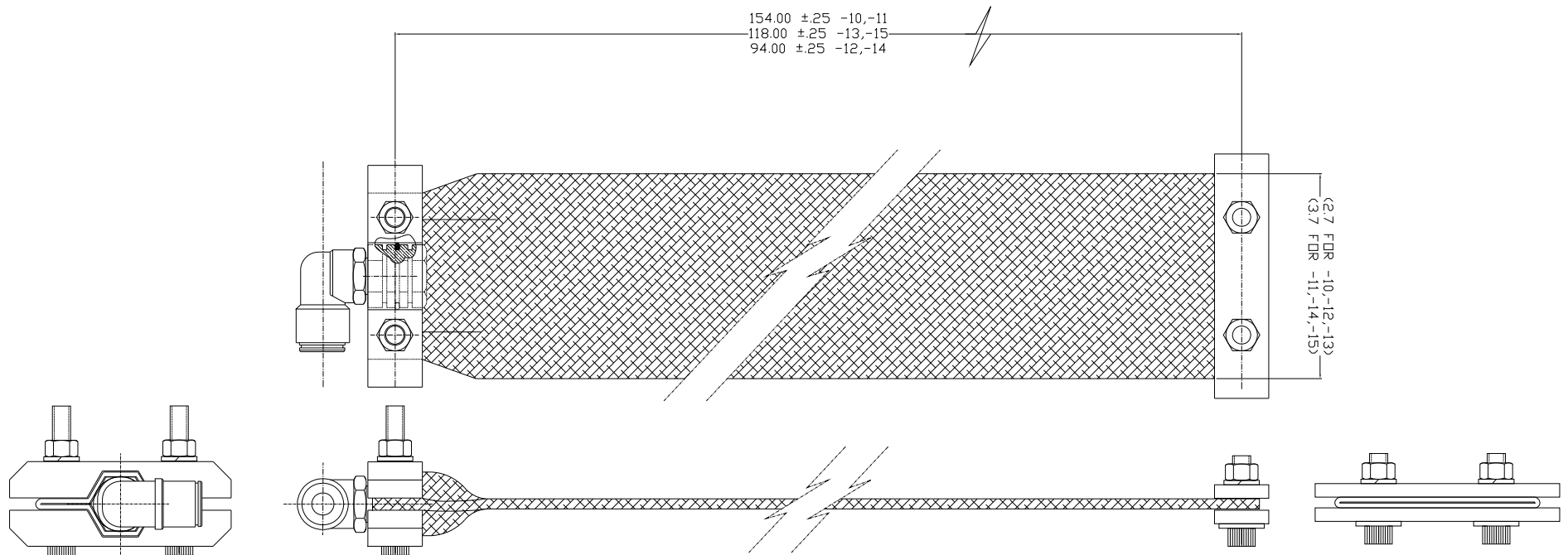


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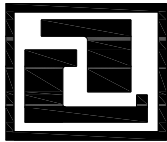
## Operation and Maintenance Manual

### RAR Replacement Parts, cont.

#### 62021; Air Bag



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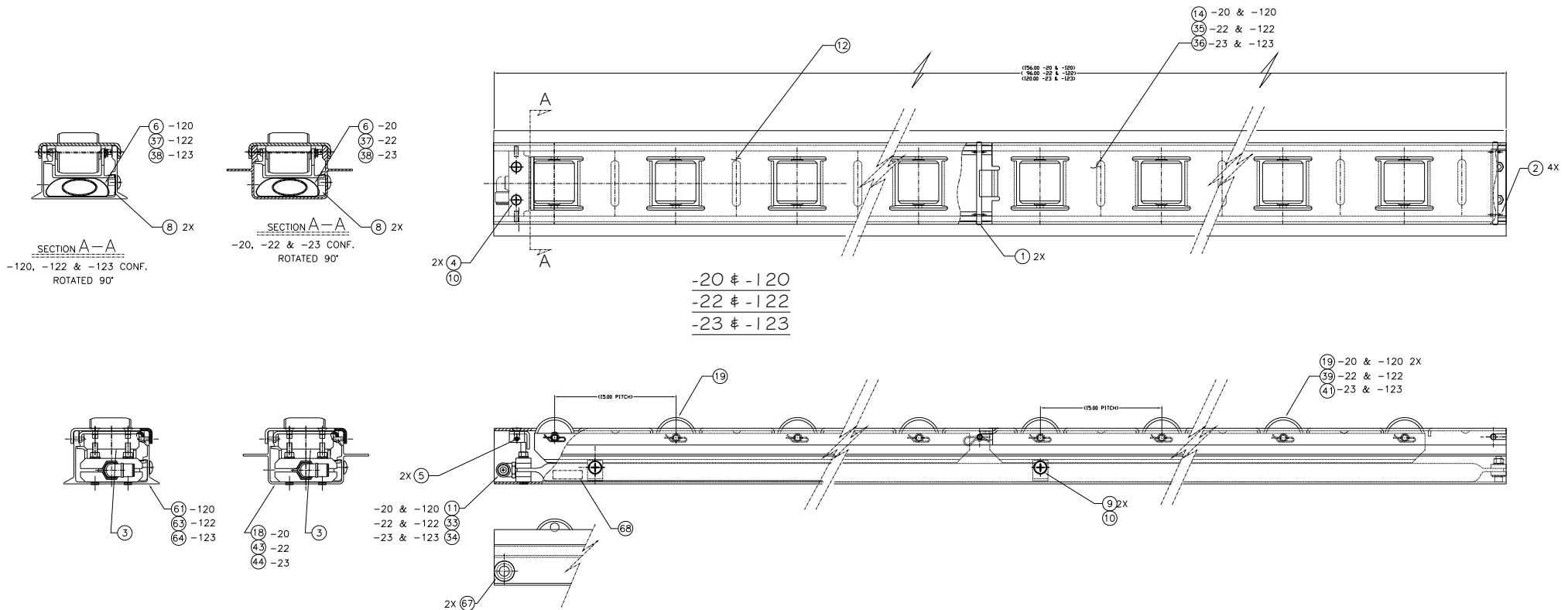


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## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 62022-20, -22, -23, -120, -122 & -123; 2" Roller Conveyor Assemblies; 6" Pitch

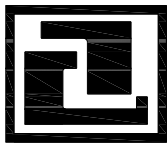


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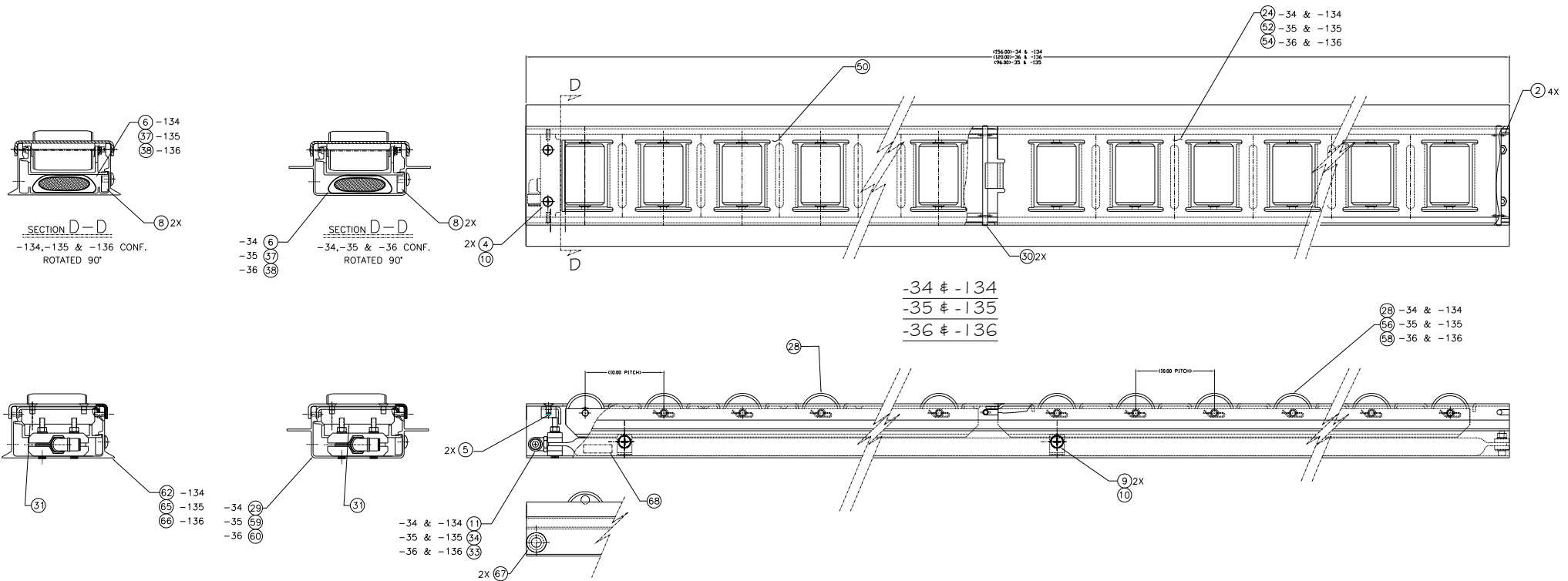


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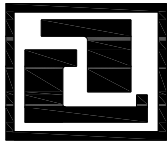
## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 62022-34, -35, -36, -134, -135 & -136; 3" Roller Conveyor Assemblies; 4" Pitch



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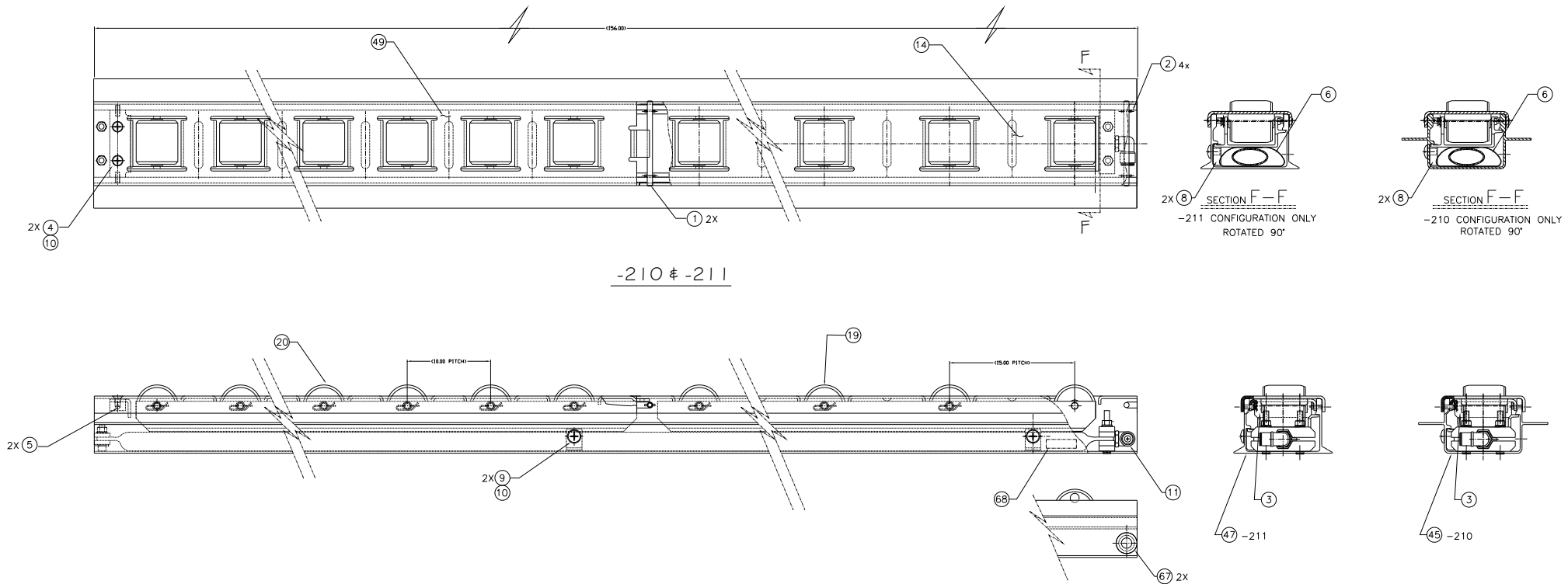


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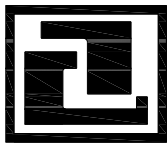
## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

### 62022-210 & -211; 2" Roller Conveyor Assemblies; Dual Pitch, Reversed



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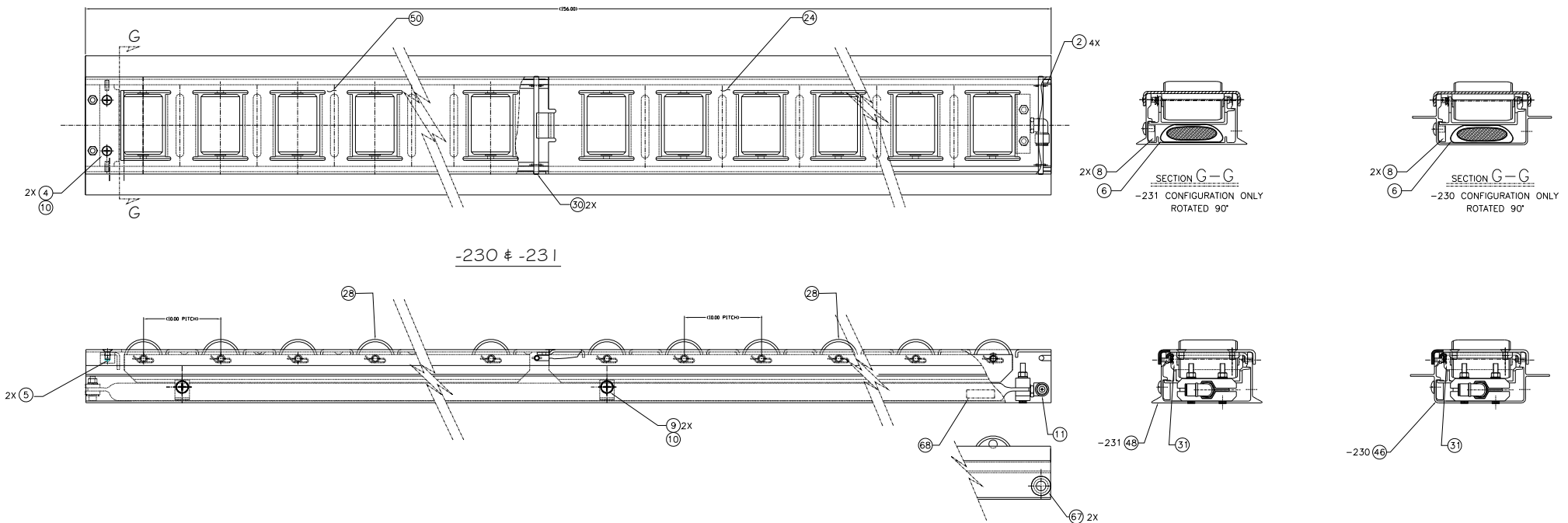


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## Operation and Maintenance Manual

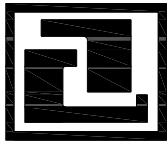
### RAR II Replacement Parts, cont.

### 62022-230 & -231; 3" Roller Conveyor Assemblies; 4" Pitch, Reversed



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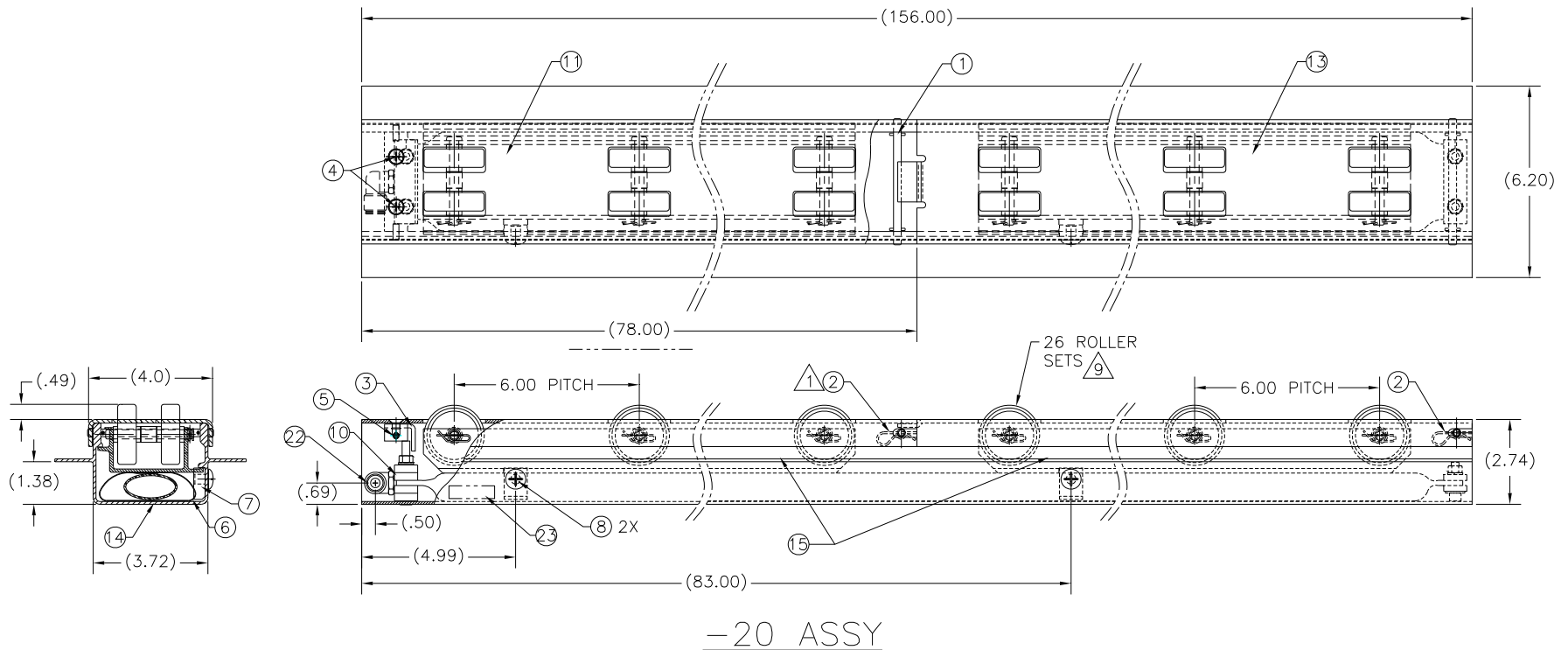


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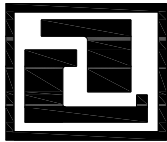
## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 65022-20; Skate Wheel Conveyor Assembly; 6" Pitch



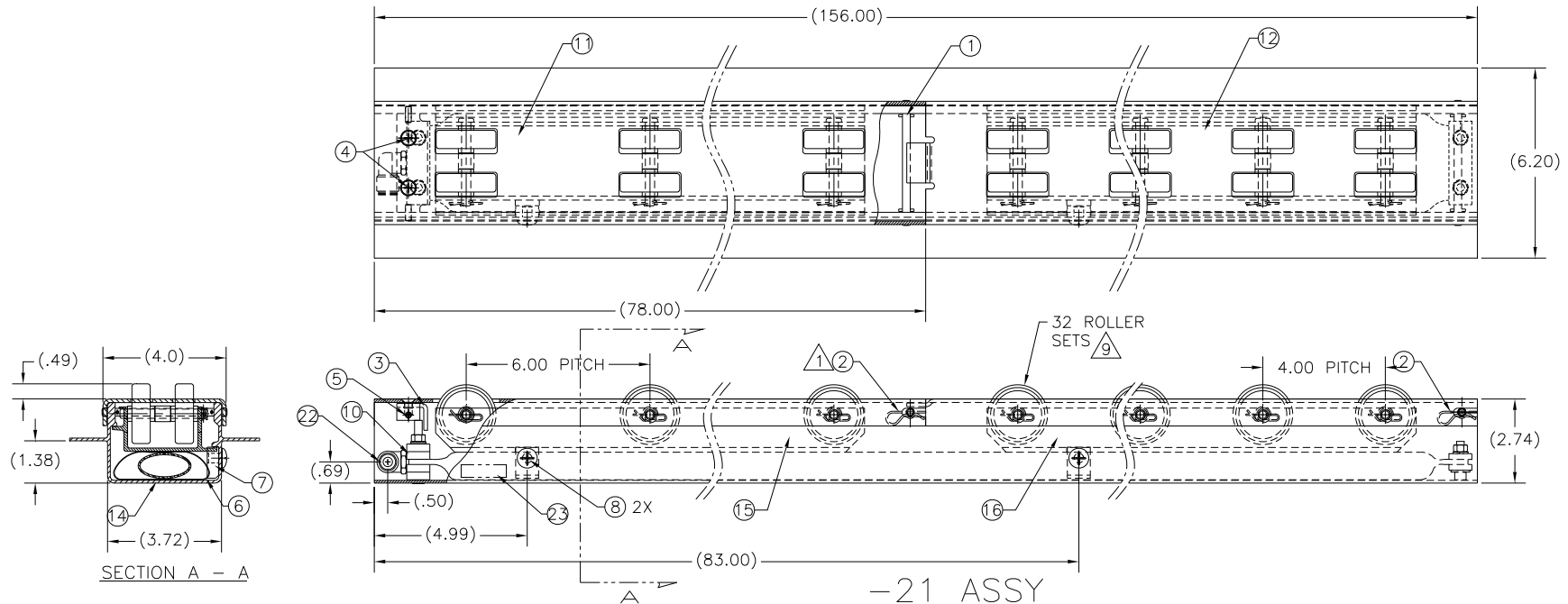
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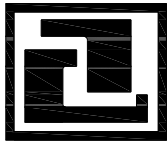


## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 65022-2; Skate Wheel Conveyor Assembly; Dual Pitch



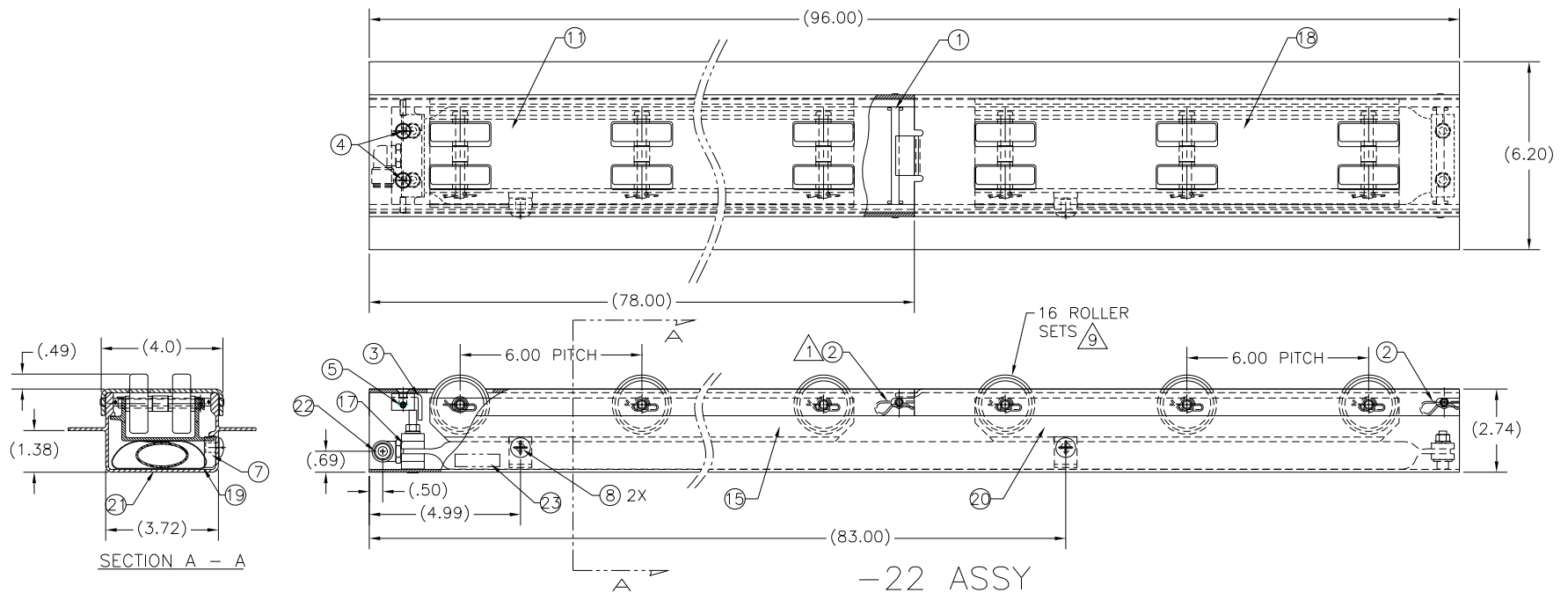


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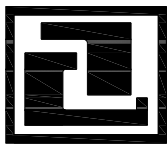
### RAR II Replacement Parts, cont.

#### 65022-22; Skate Wheel Conveyor Assembly; 6" Pitch



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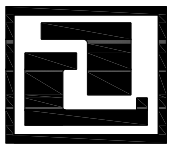


## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 65022 Skate Wheel Conveyor Assemblies Parts list

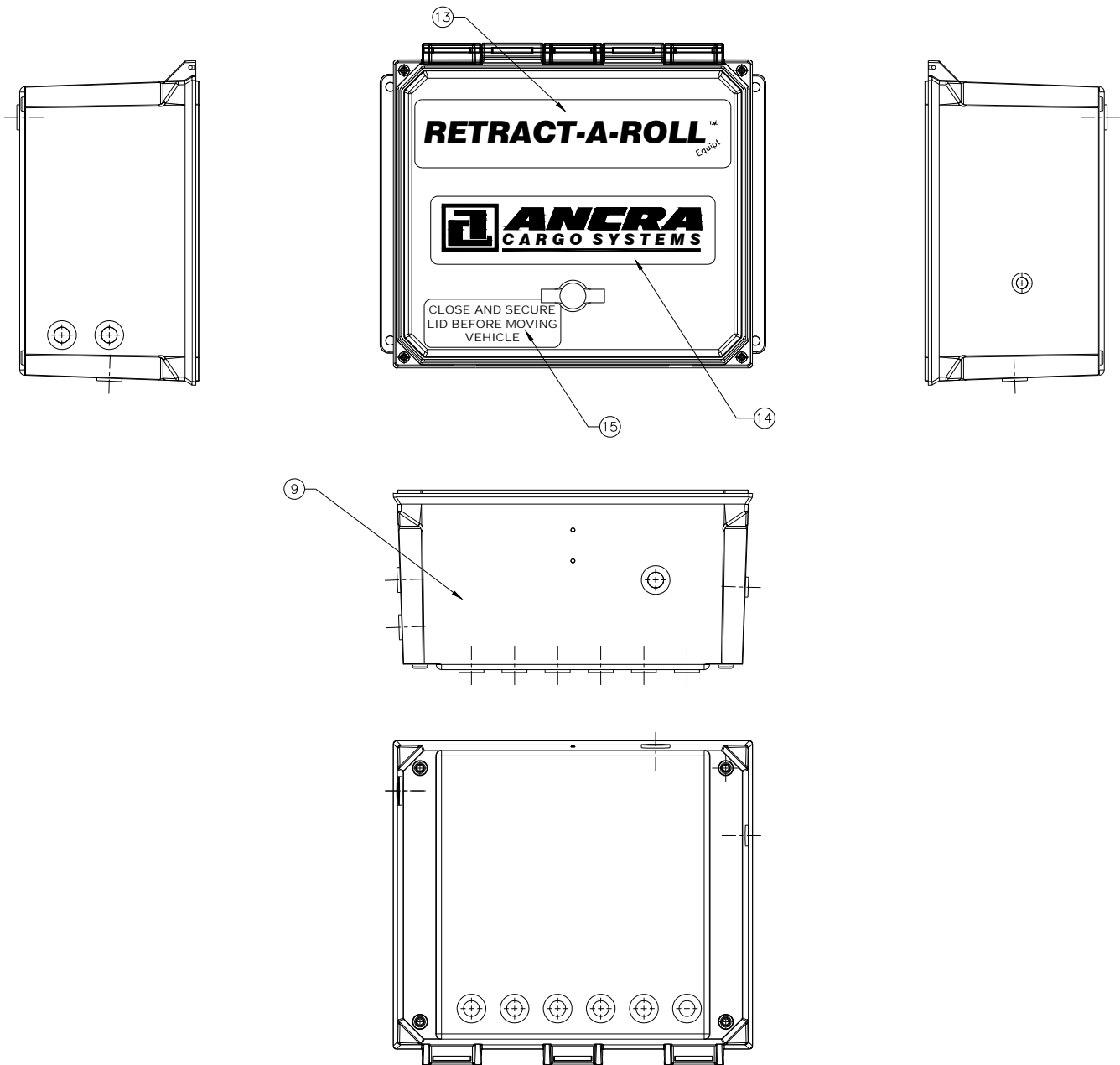
△6	△6	△6	23	49219-10	NAMEPLATE			
2	2	2	22	452	△4 GROMMET	#1/2" I.D. #7/8" O.D. #3/4" X 3/32" WIDE GROOVE	NEOPRENE	ATLANTIC INDIA RUBBER CO.
1	-	-	21	62018-12	CHANNEL	96.00" LONG	2" DUAL ROLLER	
1	-	-	20	65018-12	TRAY ASSEMBLY	6" PITCH X 14" LNG	2" DUAL ROLLER	
1	-	-	19	62024-12	SLEEVE, AIR BAG PROTECTOR	3.25" W X 93.00" LG		
1	-	-	18	65017-16	COVER PLATE, REAR	18.00" LNG, 6" PITCH		
1	-	-	17	62021-12	AIR BAG ASSY	94.00" LNG		
-	1	-	16	65018-10	TRAY ASSEMBLY	4" PITCH X 74" LNG	2" DUAL ROLLER	
1	1	2	15	65018-11	TRAY ASSEMBLY	6" PITCH X 74" LNG	2" DUAL ROLLER	
-	1	1	14	62018-10	CHANNEL	156.00" LONG	2" DUAL ROLLER	
-	-	1	13	65017-10	COVER PLATE, REAR	78.00" LNG, 6" PITCH	2" DUAL ROLLER	
-	1	-	12	65017-12	COVER PLATE, REAR	78.00" LNG, 4" PITCH	2" DUAL ROLLER	
1	1	1	11	65017-11	COVER PLATE, FRONT	78.00" LNG, 6" PITCH	2" DUAL ROLLER	
-	1	1	10	62021-10	AIR BAG ASSY	154.00" LNG		
2	2	2	8	60466-10	SCREW, SELF-LOCKING, BH	5/16-18 X .50 LNG	ZINC PLATED STEEL	
2	2	2	7	47410-11	STOP, ROLLER TRAY			
-	1	1	6	62024-12	SLEEVE, AIR BAG PROTECTOR	3.25" W X 153.00" LG		
2	2	2	5	91385A355	SET SCREW, SELF LOCKING	1/4-28 X .50 LNG		
2	2	2	4	60467-10	SCREW, SELF-LOCKING, FH	100, 1/4-28X .50 LNG	STAINLESS STEEL	
1	1	1	3	62019-12	END BLOCK, CHANNEL			
4	4	4	2	1530PAC0508	PIN, SPIRAL - STANDARD DUTY			△5 ECS-300
2	2	2	1	62020-10	PIN, COVER PLATE RETAINER			
-22	-21	-20	ITEM	PART NO.	NOMENCLATURE	STOCK SIZE	MATERIAL	MATERIAL SPEC/SOURCE

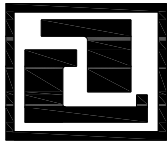


## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 62011-13; Control Box Assembly



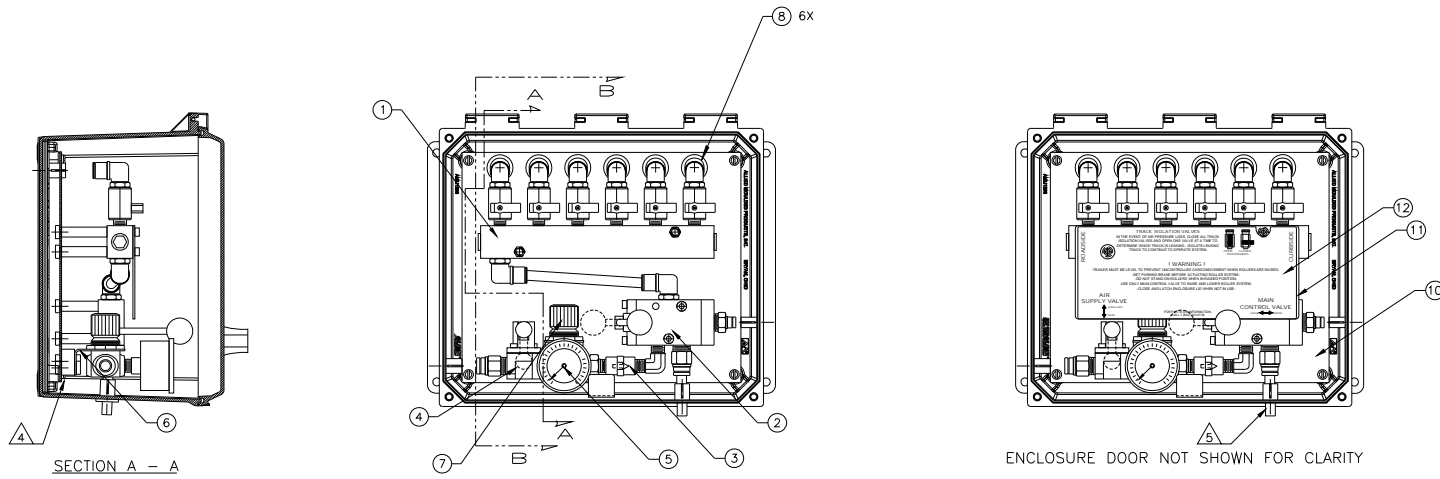


# ANERA INTERNATIONAL RETRACT-A-ROLL® II

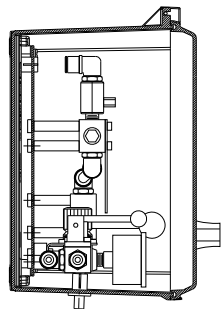
## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 62011-13; RAR II Control Box Assembly, cont.

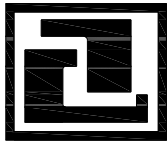


COVER PLATE (ITEM 10) AND  
ENCLOSURE DOOR NOT SHOWN FOR CLARITY



SECTION B - B

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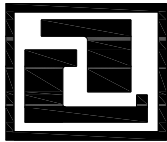


## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### ***62011-13; Control Box Assembly Parts List***

1	15	62069-10	DECAL, WARNING
1	14	62038-10	DECAL, ANCRA
1	13	47805-10	DECAL, RAR
1	12	AIR SUPPLY DECAL	FRONT PANEL DECAL
1	11	PA120S05	BACK PANEL
1	10	PA108S04	FRONT PANEL
1	9	AMU1206S014	ENCLOSURE
6	8	MV608-4	MINI VALVE
1	7	R07-200-RNKA	REGULATOR
1	6	18-025-003	GAUGE MTG BRKT
1	5	T6-E-L-1/8	PRESSURE GAUGE
1	4	1113A-021	SMALL 3-WAY VALVE
1	3	CMM20B	CHECK VALVE
1	2	E25LP	3-WAY VALVE
1	1	AHP-72007-A	MANIFOLD

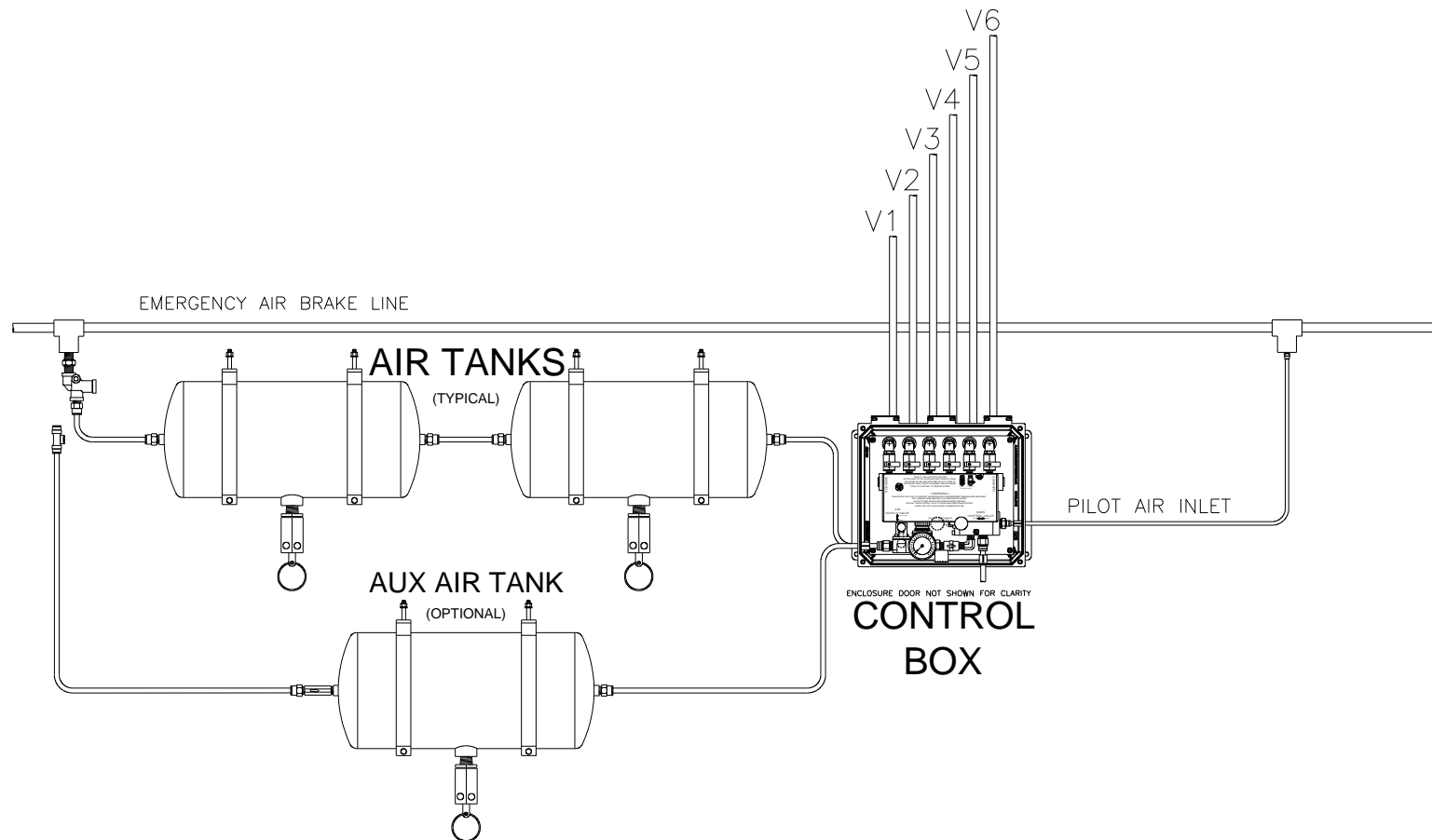


# ANCRA INTERNATIONAL **RETRACT-A-ROLL® II**

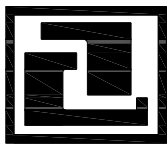
## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### *Typical System Layout*



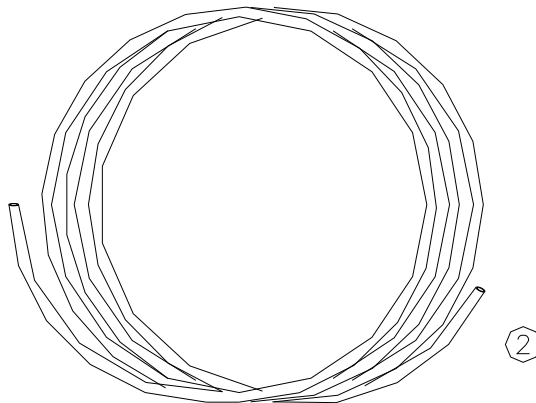
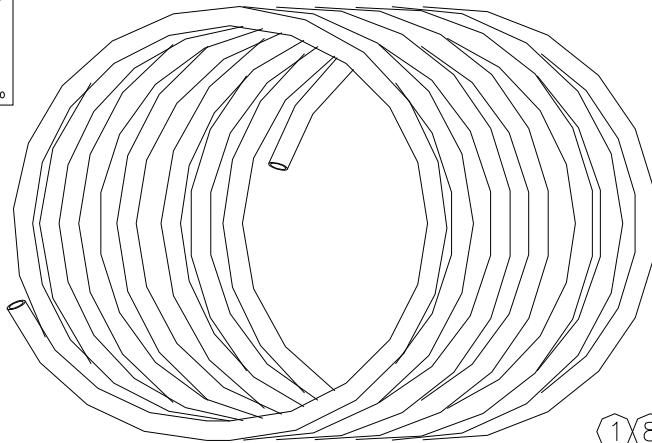
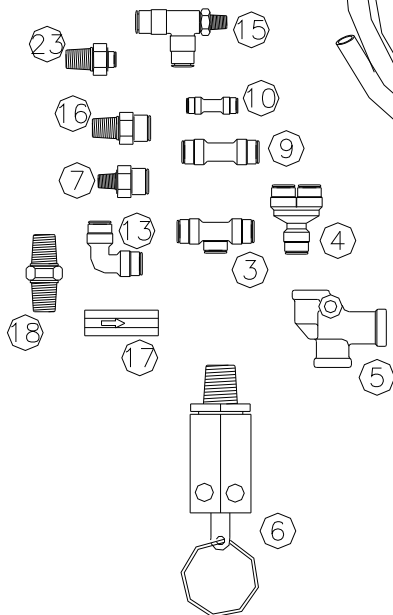
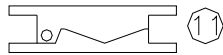
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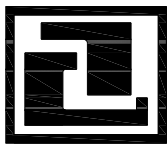


## Operation and Maintenance Manual

### RAR II Replacement Parts, cont.

#### 62023; Fittings Kit





## Operation and Maintenance Manual

### 62023 Fittings Kit Parts List

#### KIT DEFINITIONS

DASH NO.	AIR TANKS	No. OF LANES	CONVEYORS/ LANE
-10	2	6	2
-13	1	6	2
-14	1	4	2
-30	2	2	4
-41	2	6	4
-42	2	4	4
-45	2	4	5
-46	3	6	4
-47	3	4	4
-48	1	6	4
-49	2	6	4

#### KIT CONTENTS

-	-	-	2	-	-	-	-	-	-	-	24	GALLON-POLYBAG	GALLON POLY BAG		
1	1	1	1	1	1	1	1	1	1	1	23	47061-12	ADAPTOR, PIPE TO TUBE	3/8 NPT TO 1/4 TUBE	
1	1	1	1	-	-	-	-	-	-	-	22	47082-11	WARNING DECAL, NO DRIVE		
1	1	1	1	-	-	-	-	-	-	-	21	47082-10	WARNING DECAL, NO STEP		
2	1	3	3	-	-	-	-	-	-	-	20	60169-10	AIR TANK KIT		
2	2	2	-	-	-	-	-	-	-	-	18	47051-13	NIPPLE - HEX	1/4 NPT TO 3/8 NPT	
-	-	1	1	-	-	-	-	-	-	-	17	47046-12	VALVE, CHECK		
4	4	4	4	4	4	4	-	2	2	4	16	47061-14	ADAPTOR, PIPE TO TUBE	3/8 NPT TO 3/8 TUBE	
-	-	-	-	-	-	-	1	-	-	-	15	48951-10	TEE, MALE		
-	-	-	-	-	-	-	-	-	-	-	13	47067-10	FITTING, TUBE TO TUBE, ELBOW		
1	1	1	1	1	-	1	-	-	-	-	12	47049-11	TUBING	ø3/8 X 220FT	NYLON
1	1	1	-	1	1	1	1	1	1	1	11	47056-10	TUBE CUTTER		
1	1	1	1	1	1	1	1	1	1	1	10	62034-11	FITTING, TUBE TO TUBE, 1/4		
2	2	2	-	1	1	1	1	1	1	1	9	62034-10	FITTING, TUBE TO TUBE, 3/8		
-	-	-	-	-	1	-	-	-	-	-	8	47049-11	TUBING	ø3/8 X 200FT	NYLON
3	3	3	3	1	1	1	3	1	1	1	7	47061-13	ADAPTOR, PIPE TO TUBE	1/4 NPT TO 3/8 TUBE	
2	1	3	3	2	2	2	2	1	1	2	6	47230-10	VALVE, DRAIN-AIR TANK		
1	1	1	1	1	1	1	1	1	1	1	5	47058-13	VALVE, PRES. PROTECTION		
12	12	6	12	4	4	6	8	4	6	6	4	49267-10	FITTING, TUBE TO TUBE, Y		
7	7	13	7	12	8	12	2	-	-	-	3	47065-10	FITTING, TEE TUBE		
1	1	1	1	1	1	1	1	1	1	1	2	47049-10	TUBING	ø1/4 X 5FT	NYLON
-	-	-	-	-	1	-	1	1	1	1	1	47049-11	TUBING	ø3/8 X 100FT	NYLON
-49	-48	-47	-46	-45	-42	-41	-30	-14	-13	-10	ITEM	PART NO.	NOMENCLATURE	STOCK SIZE	MATERIAL