



TARPING SYSTEMS & ACCESSORIES

P/N 1125271 Rev. B

# INSTALLATION INSTRUCTIONS

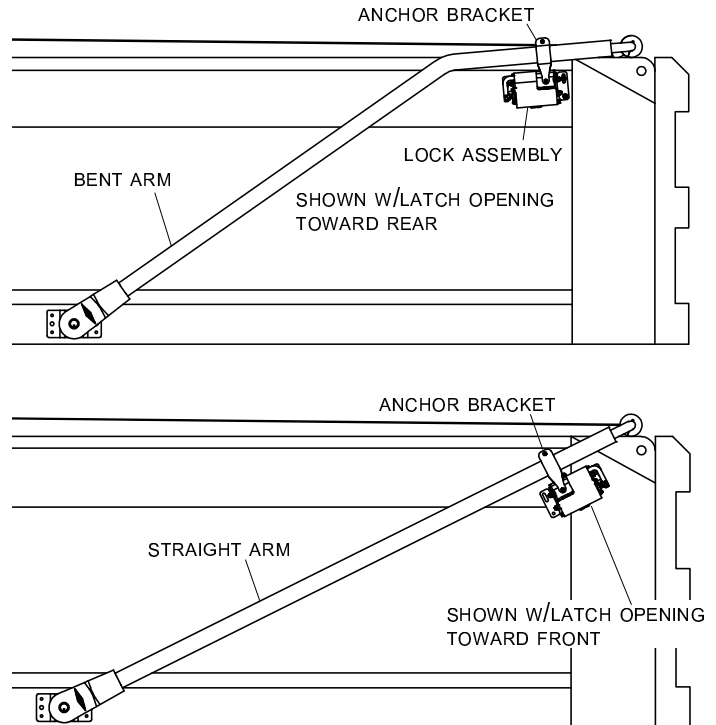
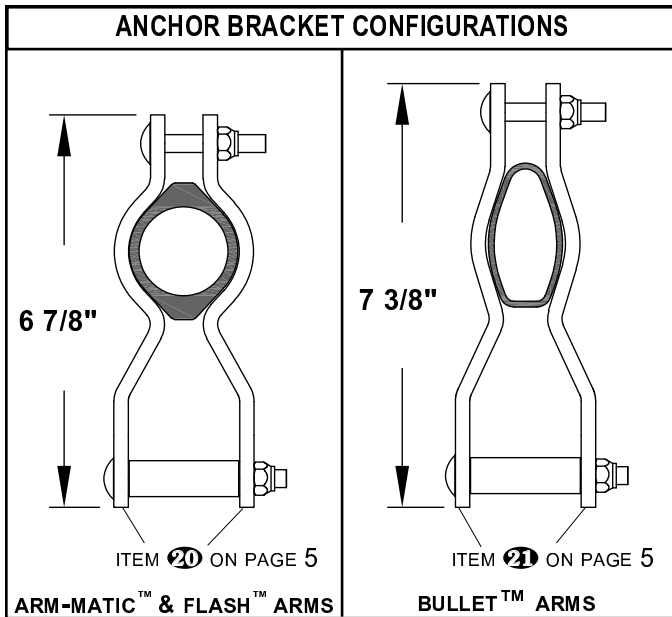


## Truck Kit

*READ BEFORE INSTALLING*

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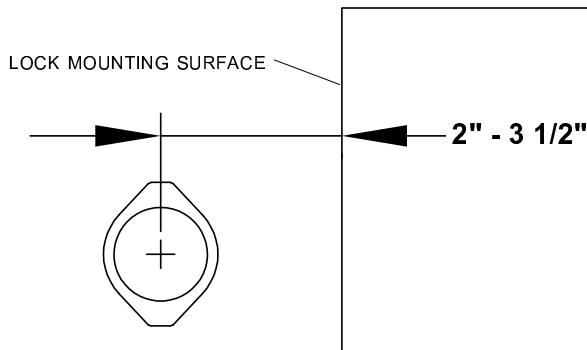
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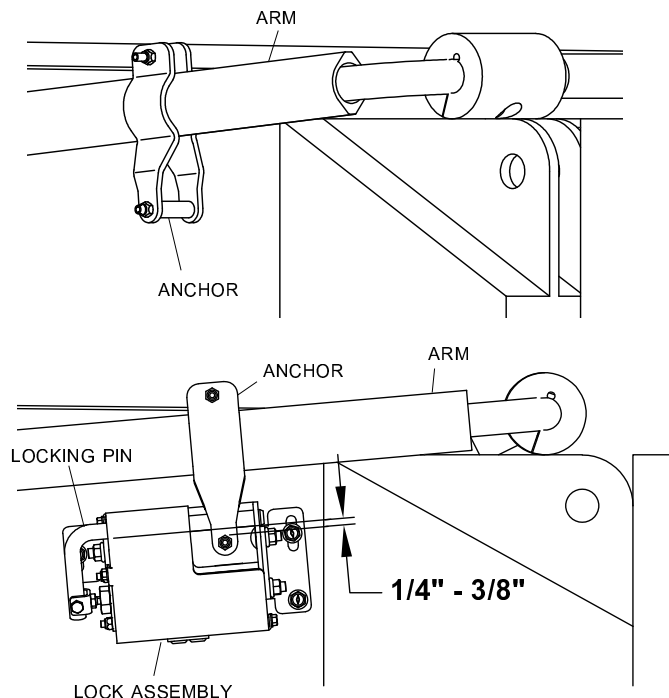
**MOUNTING LOCATIONS FOR LOCK ASSEMBLIES**

**NOTE:** Lock assemblies are not driver/passenger side specific; can be mounted on either side of box. Latch openings can be positioned towards rear or front of box.

**STEP 1:** Close tarp so return arms and tarp crossover tube are resting on rear of truck box. Position lock assembly as close as possible to end of arm. Mount lock assembly parallel to section of arm that lock assembly will lock on to. Measure distances between desired mounting locations for lock assemblies and center of each arm. Distances may differ, as arms usually do not track perfectly straight. If measurements are between 2" and 3 1/2", built-in adjustment in brackets should be adequate. If not, fabricate spacers or mounting brackets to center arms with lock pin (keep this in mind while determining mounting location).

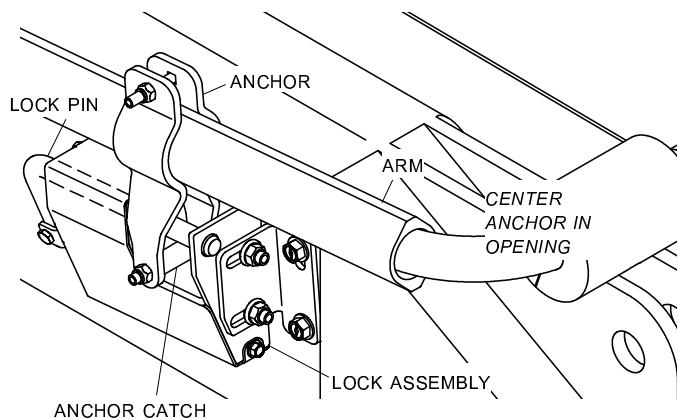


**STEP 2:** Loosely install arm anchors on arms so anchors are still moveable. Hold lock assembly up to box and adjust arm anchor with lock assembly to find suitable mounting location. Lock assembly must be close enough to arm so sliding lock pin has about 1/4" to 3/8" clearance above anchor catch. Determine if mounting brackets or spacers need to be fabricated to mount lock assembly as desired.



**NOTE:** To ease installation, hang lock assembly from arm anchor by latching assembly to arm anchor (lock pin can be pulled open by hand).

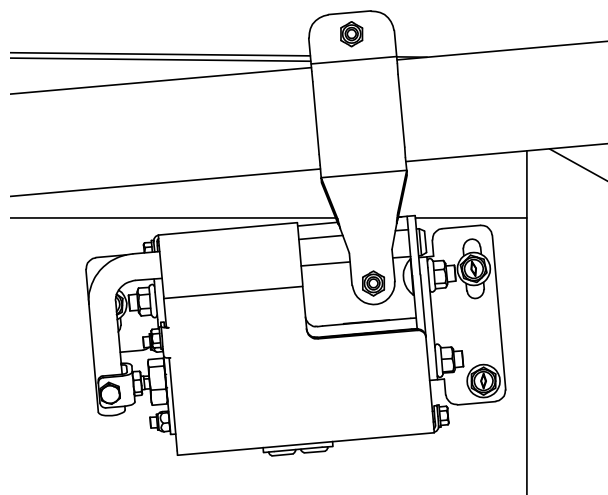
**STEP 3: Install lock assemblies.** Position anchor on arm in desired location and tighten anchor bolts to secure. Locate anchor catch 1/4" to 3/8" below lock pin on lock assembly. Hold lock assembly in place and center anchor as shown. If mounting lock assembly to minimum of 1/8" thick steel or minimum of 3/16" thick aluminum, mark center of slots on mounting bracket, drill 5/16" holes and secure with 3/8" x 1" self-tapping screws.



**NOTE:** If needed, bolt through structure to ensure assembly is mounted securely.

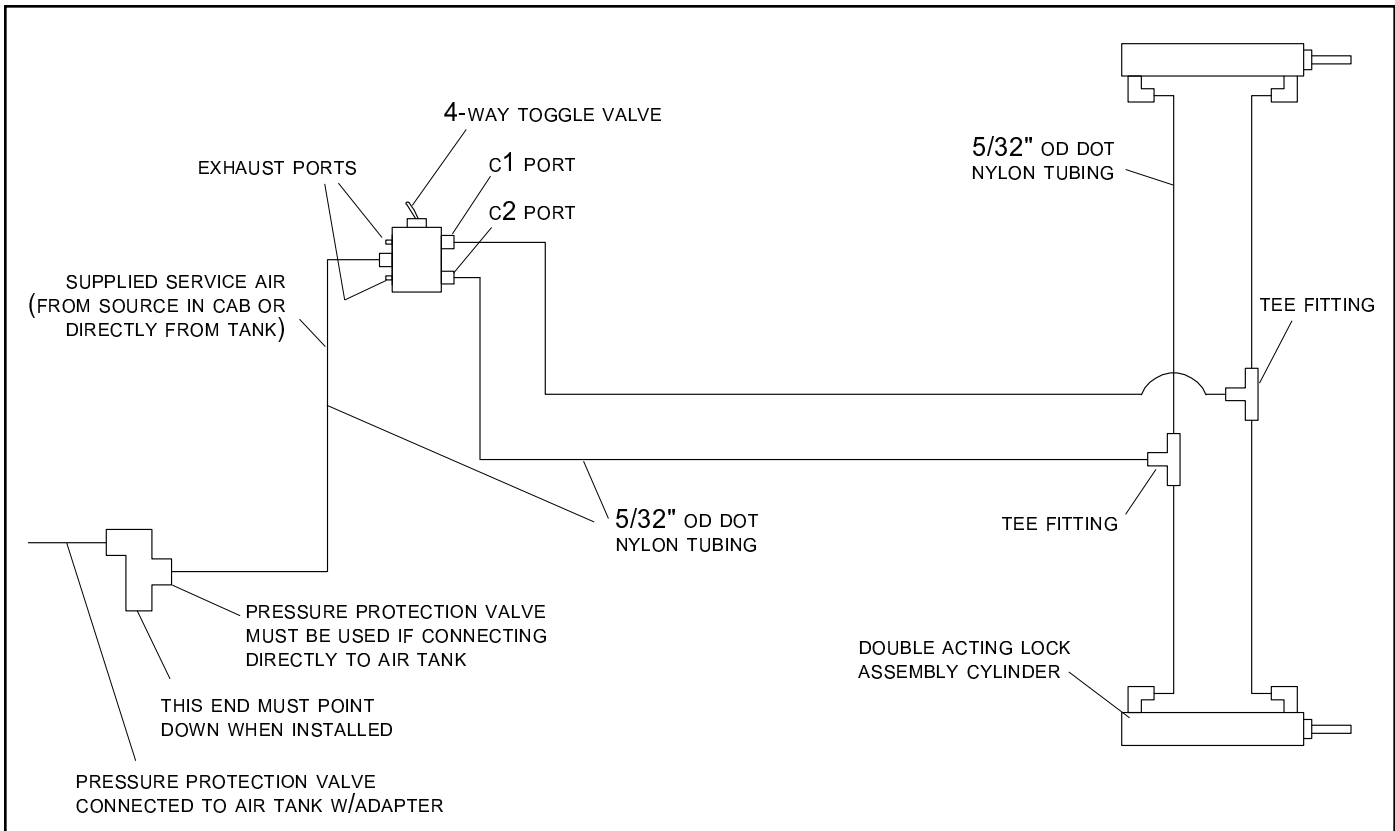
**STEP 4:** Slots in mounting brackets can be used to adjust for pin clearance and move lock housing toward or away from side of box to help center arm anchor. Center anchors with lock pin and adjust lock assembly to obtain at least 1/4" of clearance between lock pin and anchor catch. Tighten adjustment nuts on mounting bracket, then fully tighten self-tapping screws. Use remaining mounting hole as guide to drill 5/16" hole and fasten self-tapping screw through hole. Install lock assembly on other side of box in same manner.

**STEP 5:** Make final adjustments to anchor assemblies. Pull lock pin entirely open and push arm up and out of latch opening. Make sure there is enough clearance for anchor to come out without catching on lock pin or either side of opening. Adjust anchor location as necessary, then tighten anchor nuts securely.



**NOTE:** In most cases, best anchor position for optimal clearance is slightly off center and toward rear of box.

**PNEUMATIC DIAGRAM/SCHEMATIC**



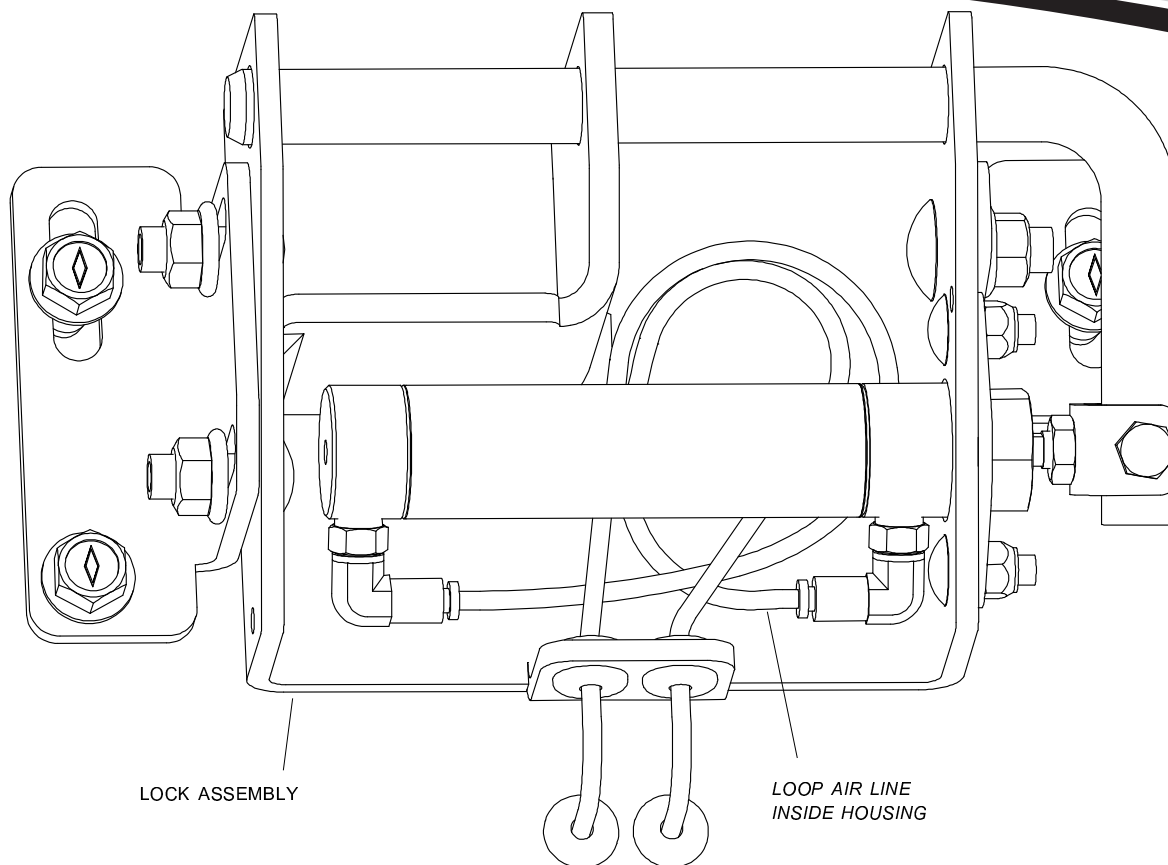
**STEP 6:** Fasten toggle valve/switch to existing mounting bracket or panel in cab. Locate valve in cab within easy reach of operator. If possible, mount close to switch for tarp.

**STEP 7:** Install air system components as shown in pneumatic diagram/schematic above. Locate two PTC tee fittings at rear of truck and route two lines of tubing from each cylinder to tee fittings. Connect lines from rod end of each cylinder to one tee fitting and connect lines from base end of each cylinder to other tee fitting. Run air line from each tee fitting along frame and up to toggle valve in cab.

**NOTE:** Kit uses 5/32" DOT-approved nylon tubing and DOT-approved PTC fittings. Use sharp utility knife to cut tubing. Cut square and burr free for good seal. Use assorted straight PTC fittings and elbows as needed. Fittings for cylinders in lock assemblies come pre-installed.

**STEP 8:** Route air from truck's service air system to toggle valve. This can be done by teeing into existing air accessory inside cab (example: seat), tapping into air accessory manifold inside cab (if applicable) or by connecting directly to tank. If connecting directly to tank, use pressure protection valve (provided) to keep tank from dropping below 70 PSI in case of leakage.

**NOTE:** Adapter fitting for common air tank port is included in kit for adapting protection valve to tank (additional or different fittings may be required). If connecting to existing air line or manifold inside cab, no pressure protection valve is needed, as lines should already be pressure protected. For added protection, valve may be installed between source and toggle valve, if desired. Additional fittings not included in kit may be needed. All PTC fittings come with pre-applied sealant, but additional fittings or adapters require thread sealant to be applied.



### ROUTE AIR LINES

**STEP 9:** Locate protected path at rear of truck to route air lines from tees to lock assemblies.

**TIP:** Rear corner post on most dump bodies is good place to route air line. Material thickness must be 3/16" or less to fit included grommets.

- To run air line through corner post or tube, drill 3/8" holes and install grommets (included) into holes to protect air lines.
- To run airline into lock assembly from backside, instead of using existing holes in housing, drill hole through backside of housing. Be sure airline will not interfere with lock pin.
- Remove cover to route air line into lock assembly. Run both air lines through grommets at bottom or backside of housing for new drilled holes, then loop air line inside housing. Connect to fittings on cylinder and reinstall cover.

### TEST OPERATION

- Start truck engine to bring air system to operating pressure.
- Flip toggle valve ON to pressurize piston end of cylinders and open locks while letting exhaust flow out rod side of cylinder.
- Flip toggle OFF to pressurize rod end of cylinder and push lock closed while letting exhaust flow out piston end of cylinder.

**NOTE:** Make sure locks are operating correctly. While system is pressurized, check for leaks.

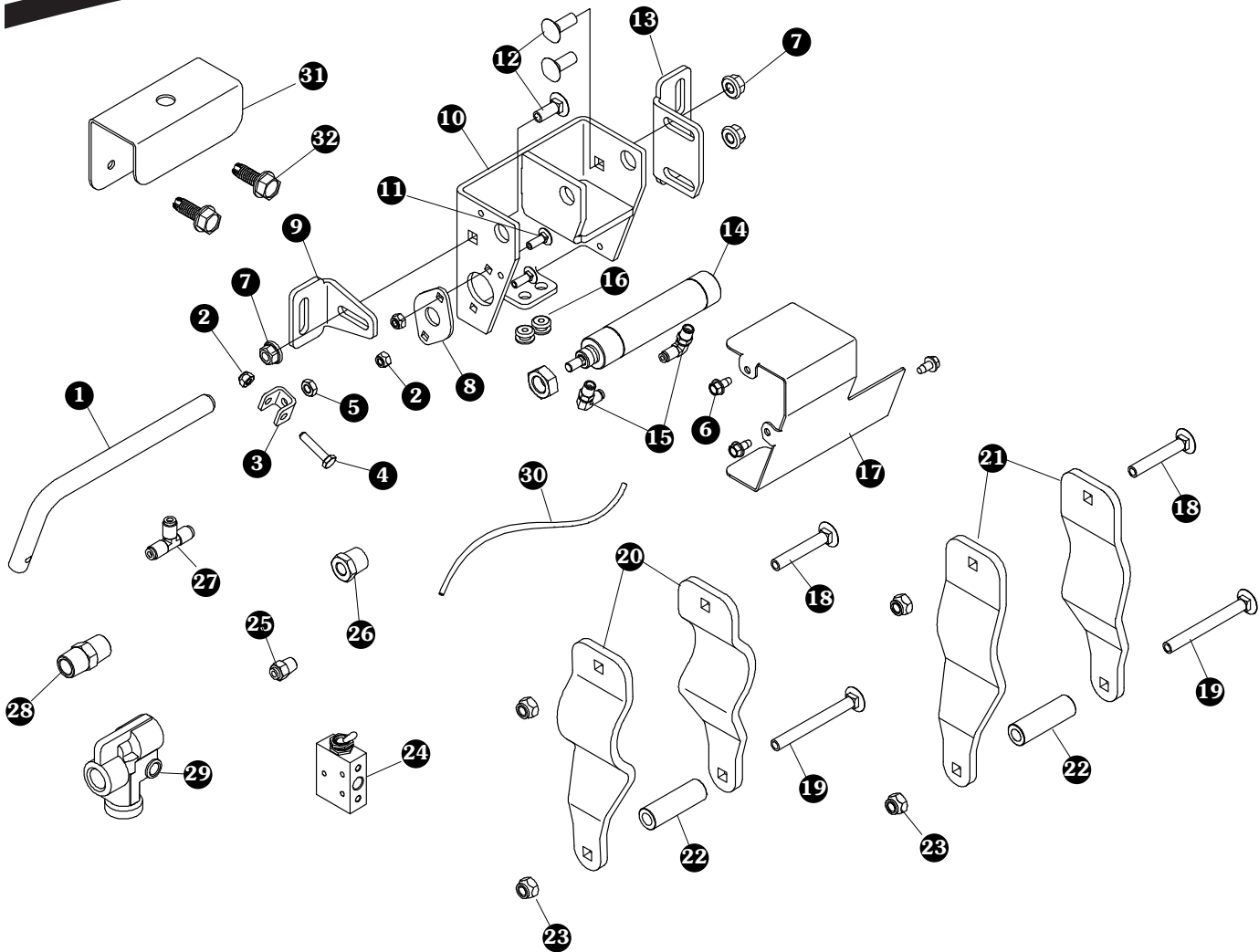
- Run tarp system open and closed several times to make sure arm anchors are correctly aligned with lock assemblies. Adjust as needed.

**NOTE:** Lock pins will allow tarp to be back wound (tightened) to take slack out of tarp and reduce wind whip.

- After lock pins have closed, push button to open tarp. Anchors will pull up against lock pins, allowing tarp to be tightened. Tighten lock pins just enough to take slack out of tarp.

**NOTE:** Do not press button long enough to stall motor, which would apply heavy torque to system. Locks will not be damaged, but tarp system components could eventually be harmed.

- Before flipping toggle to open locks, run tarp motor in closed direction, just enough to remove tension from tarp.



Item	Part #	Description
	1125251	Arm-Lok™ Assembly - Driver Side
	1125261	Arm-Lok™ Assembly - Passenger Side
1.	1125256	Arm-Lok™ Pin
2.	1701543	Nylon Lock Nut - 1/4"
3.	1125260	Cylinder Rod Clevis
4.	1705599	Cap Screw - 1/4" x 1 1/4" GR5
5.	1705598	Jam Nut - 5/16"
6.	1700402	Self-Tapping Screw - 1/4" x 1/2"
7.	1704945	Flanged Nylon Lock Nut - 3/8"
8.	1125257	Lock Cylinder Mount Plate
9.	1125259	Lock Housing Mount Bracket
10.	1125252	Arm-Lok™ Housing - Driver Side
	1125262	Arm-Lok™ Housing - Passenger Side
11.	1705597	Carriage Bolt - 1/4" x 3/4" - ZP - GR5
12.	1705051	Carriage Bolt - 3/8" x 1" - ZP - GR5
13.	1125258	Lock Housing Mount Bracket - Driver Side
	1125266	Lock Housing Mount Bracket - Passenger Side
14.	1705600	Air Cylinder - Double Acting
15.	1705590	Air Fitting - 90° SW - 5/32" PTC x 1/8" NPTM - DOT
16.	1705594	Rubber Grommet - 3/16" x 5/8"
17.	1125255	Arm-Lok™ Housing Cover - Driver Side
	1125265	Arm-Lok™ Housing Cover - Passenger Side

Item	Part #	Description
18.	1705595	Carriage Bolt - 5/16" x 2" ZP - GR5
19.	1705596	Carriage Bolt - 5/16" x 3" ZP - GR5
20.	1125270	Anchor Bracket (Arm-Matic™ & Flash™ Arms)
21.	1125989	Anchor Bracket (Bullet™)
22.	1125274	Anchor Catch Sleeve
23.	1700419	Nylon Lock Nut - 5/16"
24.	1705586	Toggle Valve
25.	1705589	Air Fitting - 5/32" PTC x 1/8" NPTM - DOT
26.	1705591	Hex Bushing Adapter - 3/8" NPTM x 1/8" NPTF
27.	1705588	Air Fitting - Union Tee - 5/32" PTC - DOT
28.	1705593	Hex Nipple Adapter - 3/8" NPTM x 3/8" NPTM
29.	1705587	Pressure Protection Valve - 70 PSI
30.	1705585	Air Brake Tubing - Nylon DOT - 5/32" - Black
31.	1125267	Valve Mount Bracket
32.	1700400	Self-Tapping Screw - 3/8" x 1"



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