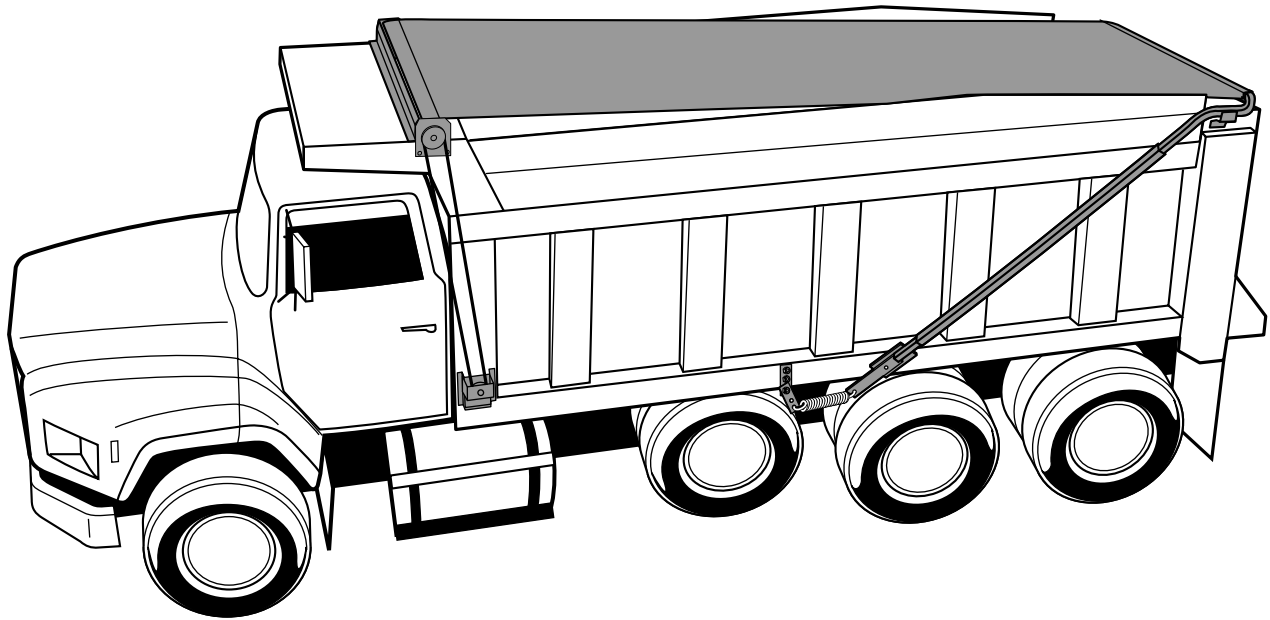


Economy Easy Cover

Model 40 VI.0

Installation, Maintenance,
and Safety Instructions



Attention Dealers:
Please give this manual to
the customer when the
product is delivered.

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 **Aero**
Industries, Inc.

Economy Easy Cover



Economy Easy Cover

Important: This manual explains how to install, operate, and maintain the model 40 Economy Easy Cover. Before installing or operating the Easy Cover, read the entire manual.

Three kinds of special explanations will appear throughout the manual. These are Warning, Caution, and Note. Be sure to read and follow them.

⚠ Warning: Possible danger to the operator or a bystander. The operator or bystander could be injured if you ignore this information.

CAUTION: Risk to the product. If you ignore this information, the Easy Cover or the truck could be damaged.

Note: Contains additional information about a feature or step critical to the operation of the cover.

STEP 1

How to Install the Mounting Plates

Parts you will need:

Side mounting plates (2)

$\frac{3}{8}$ " x $1\frac{1}{2}$ " bolts (6)

$\frac{3}{8}$ " hex nuts (6)

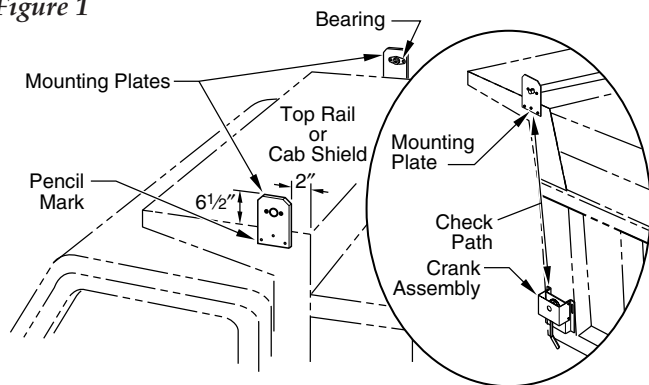
$\frac{3}{8}$ " lock washers (6)

Note: If a mounting plate does not set squarely against the top rail, use shims to square the plate. Shim material is not included in the assembly package.

⚠ Warning: Before installing the mounting plates, visually check the path of the mounting plates to the crank assembly. Make sure when the chain is assembled it does not obstruct the door or create a hazard to the operator.

1. Refer to figure 1. Make a pencil mark 2" back from the front of the top rail (or cab shield).

Figure 1



2. Align the forward edge of the driver's side mounting plate with the pencil mark, and position its top edge $6\frac{1}{2}$ " above the top rail. The bearing on the mounting plate should face inward.
3. Mark the three mounting holes on the top rail. Remove the plate.
4. Drill three $\frac{13}{32}$ " holes through the top rail where marked.
5. Bolt the mounting plate in place with the bolts, nuts, and lock washers.
6. Repeat instructions 1–4 to position the passenger side mounting plate. Position it directly across from the driver's side mounting plate, but do not bolt at this time. (See STEP 2, instruction 2.)
7. Refer to figure 4. Measure the distance between the two bearings on the mounting plates. It must be a minimum of 94". If it is less than 94", cut tube to length on open end of roll-up bar.

STEP 2

How to Install the Tarp Roll-up Bar

Parts you will need:

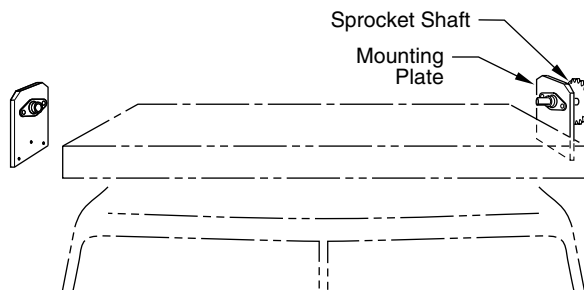
Tarp roll-up bar (1)

Passenger side mounting plate (1)

Sprocket shaft (1)

1. Refer to figure 2. Insert the sprocket shaft through the bearing on the driver's side mounting plate.

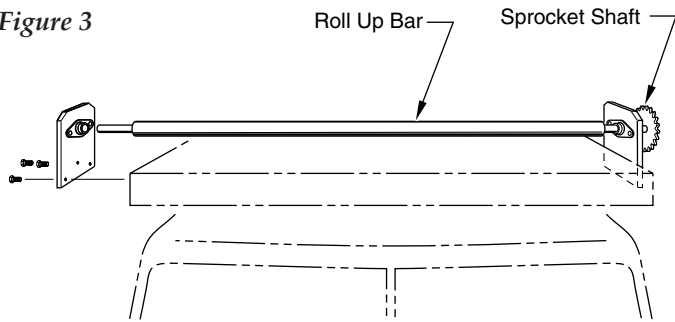
Figure 2



2. Refer to figure 3. Insert the tarp roll-up bar through the bearing on the passenger side mounting plate. Slide this roll-up bar into the sprocket shaft until the passenger side mounting plate can be bolted onto the truck.

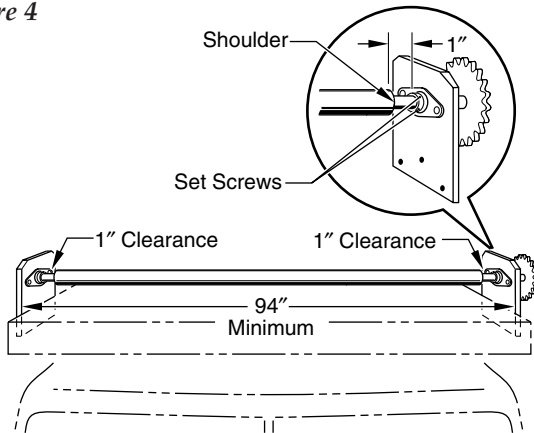
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Figure 3



3. Bolt the passenger side mounting plate to the truck. Be sure to maintain a 1" clearance from the bearing. Figure 4 shows the completed assembly.

Figure 4



STEP 3

How to Install the Crank Assembly

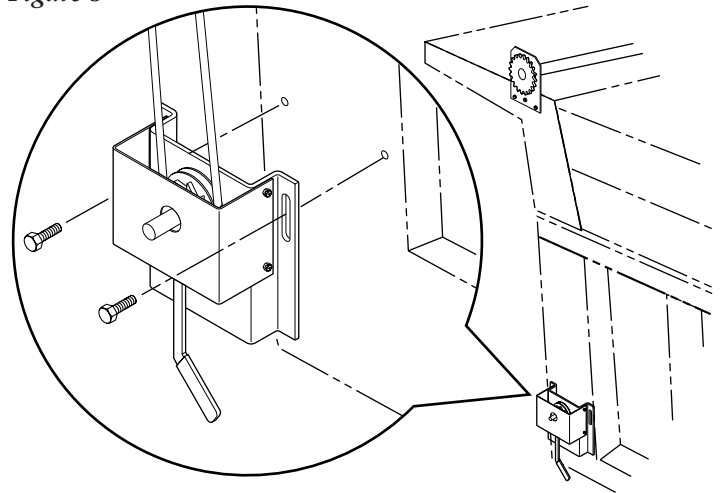
Parts you will need:

- Crank assembly (1)**
- $\frac{3}{8}$ " x 1" hex bolts (2)**
- $\frac{3}{8}$ " washers (2)**
- $\frac{3}{8}$ " hex nuts (2)**

Note: If you need to mount the crank assembly in a space where you cannot use bolts and nuts, use self-tapping bolts and lock washers. Not included in package.

1. Remove the cover on the crank assembly. Lay the cover aside until after the chain is installed. (See STEP 4.)
2. Refer to figure 5. Place the crank assembly at or near the bottom front corner of the box on the driver's side. Rotate the crank assembly so that it angles toward the tarp roll-up bar.

Figure 5



3. Mark the mounting holes on the box. Remove the crank assembly.
4. Drill two $\frac{13}{32}$ " holes in the box where marked.
5. Fasten the crank assembly to the box with bolts, washers, and nuts. Make sure to bolt the assembly in the highest upward position.

STEP 4

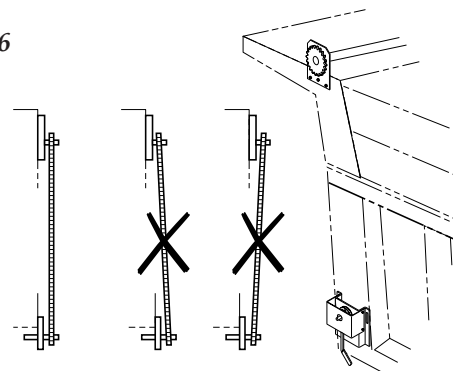
How to Install the Chain

Parts you will need:

- Chain (1)**
- Master link (1)**
- Crank assembly cover (1)**
- #14 x $\frac{1}{2}$ " screws (4)**
- Crank handle (1)**
- $\frac{1}{4}$ " bolt (1)**
- $\frac{1}{4}$ " nut (1)**

1. Refer to figure 6. Wrap the chain around both sprockets and mark the overlap. Unwrap the chain and remove the excess links.

Figure 6



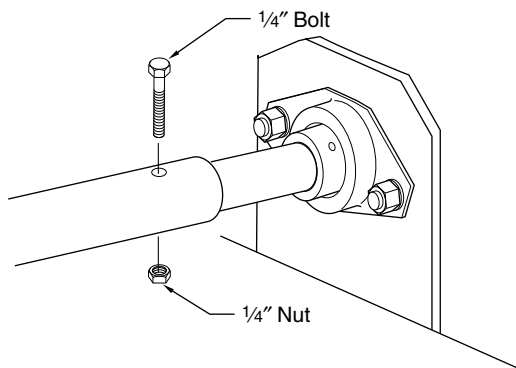
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2. Wrap the shortened chain around the sprockets and fasten the two ends with the master links.

Note: To remove any slack in the chain, loosen the crank assembly mounting bolts and slide the crank assembly away from the tarp roll-up bar. The chain should be snug but not overly tight. Retighten the mounting bolts.

3. Adjust the sprocket inward or outward to align with crank assembly sprocket. (See figure 6) When accomplished, drill $\frac{1}{4}$ " hole through tarp roll-up bar and sprocket shaft. Insert $\frac{1}{4}$ " bolt and fasten tightly with $\frac{1}{4}$ " nut. (See figure 7) Tighten the two bearing set screws on each mounting plate.

Figure 7



STEP 5

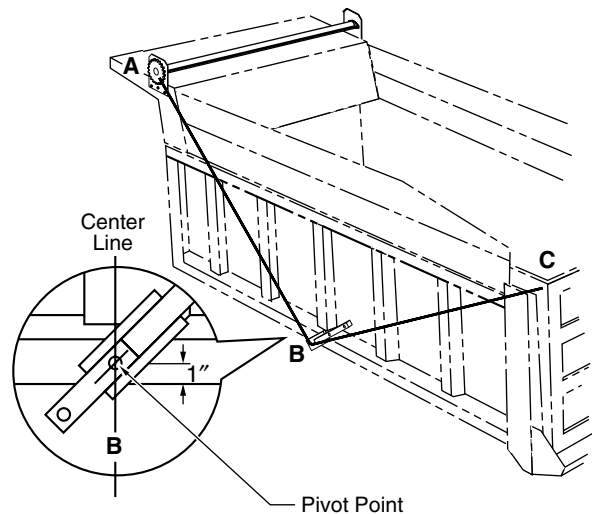
How to Install the Tension Spring Assembly

Parts you will need:

- Lower swing arms (2)
- Swing arm inserts (2)
- Extension brackets (2)
- Spring mounting brackets (2)
- Tension springs (2)
- $\frac{1}{2}$ " x $2 \frac{1}{2}$ " bolts (2)
- $\frac{1}{2}$ " nylon insert nuts (2)
- $\frac{1}{2}$ " flat washers (6)
- $\frac{3}{8}$ " x $1 \frac{1}{2}$ " bolts (6)
- $\frac{3}{8}$ " nylon insert nuts (6)
- $\frac{3}{8}$ " flat washers (6)

Note: Refer to figure 4. Notice that the tension spring assembly (B) is one point of a triangle. The other two points (A and C) are on the top of the truck. The two downward-pointing legs of the triangle must be the same length. These steps will make sure that the two legs are equal.

Figure 8



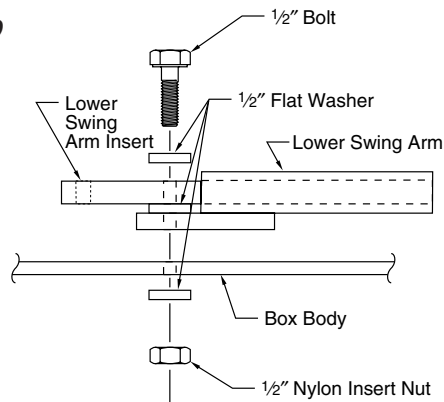
1. Mark the rear edge of the crank assembly or mounting plate in line with the tarp roll-up bar on the driver's side and passenger side. Mark these points and call them A.
2. Determine where you want the rear of the tarp to be when it fully covers the box. Mark these points on both sides of the box and call them C.
3. Find a point at the side of the box that is the same distance from A and C. This is point B, where the tension spring assembly will be mounted. Mark this point on both sides. Once point B center line is marked, measure 1" up from box body and mark.

Note: If box body construction does not allow you to thread nuts on from the interior wall, refer to alternate instructions on figure 11.

4. Drill $\frac{1}{2}$ " hole where center line (point B) and 1" mark intersect. Position the driver's side lower swing arm assembly to the point marked on the driver's side ("B"). Clamp the lower swing arm so the $\frac{1}{2}$ " hole (on the arm) is at point B and up 1" from bottom of the box. Drill $\frac{1}{2}$ " hole through. (See figure 8)Figure 9

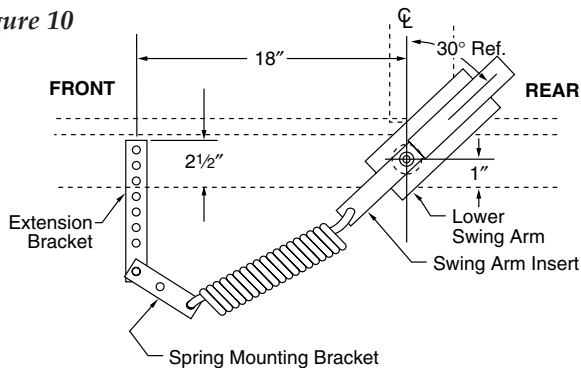
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Figure 9



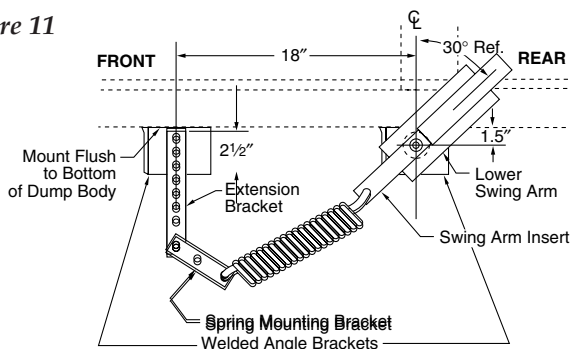
5. Refer to figure 9. Position one 1/2" washer in between swing arm insert and lower swing arm. Insert one 1/2" bolt into arm and through 1/2" hole. Use washer on each side of bolt. Thread 1/2" nylon insert nut on other side and secure tightly.

Figure 10



6. Refer to figure 10. Place extension bracket into position and clamp. Mount bracket as low as possible. (Leave clearance for tires.) Drill two 3/8" holes and use nuts, bolts and washers to fasten tightly.
7. Bolt second spring mounting bracket loosely to first spring mounting bracket using 3/8" nuts, bolts and washers.
8. Position tension spring as shown.
9. Repeat on passenger side.

Figure 11



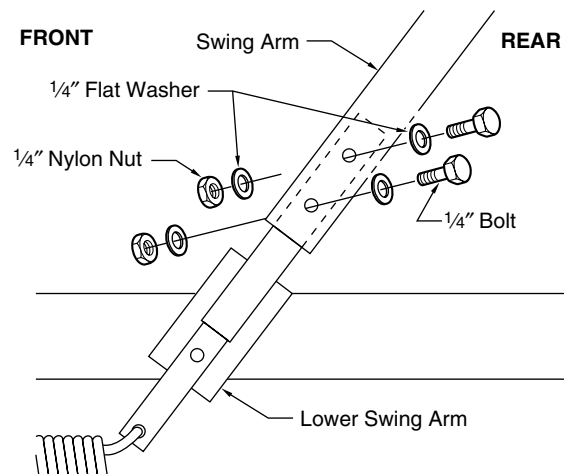
STEP 6

How to Install the Swing Arms

Parts you will need:

- Swing arms (2)
- 1/4" x 2" bolts (4)
- 1/4" nylon insert nuts (4)
- 1/4" flat washers (8)

Figure 12



1. Refer to figure 12. Place a swing arm on the driver's lower swing arm assembly shaft. Be sure that the arm is in the rear position.
2. Insert 1/4" x 2" bolts, nuts, and washers into holes as shown and tighten.
3. Repeat steps 1 & 2 on the passenger side.

Note: On rare occasions, the tension spring assembly may not have enough tension to pull the tarp to the rear of the truck. Test the completed tarp system. If the tension is not sufficient, increase distance from pivot point to spring mounting bracket to 18".

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STEP 7

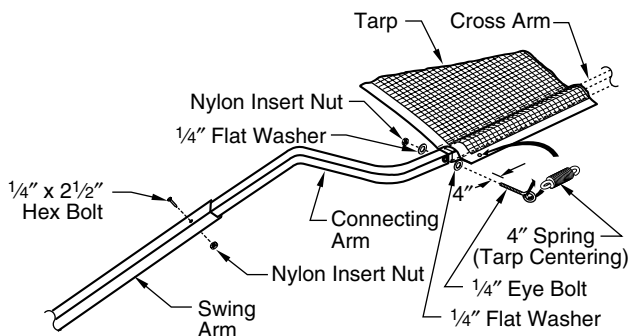
How to Install the Tarp, Cross Arm, and Connecting Arms

Parts you will need:

- Tarp (1)
- Cross arm (1)
- Connecting arm, driver's side (1)
- Connecting arm, passenger side (1)
- 4" tarp-centering springs (2)
- 1/4" x 2 1/2" hex bolts (2)
- 1/4" x 3/4" self-tapping Phillips screws (6)
- 1/4" eye bolts (2)
- 1/4" nylon insert nuts (4)

Note: The driver's side and passenger side connecting arms can be interchanged to provide greater clearance with the box. Each connecting arm has a different part number. Before ordering replacement parts, double-check the part number. (See the assembly drawing at the back of the manual).

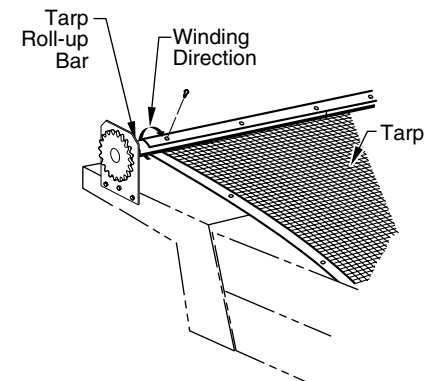
Figure 13



1. Refer to figure 13. Feed the cross arm through the pocket in the end of the tarp.
2. Raise the swing arm to the top of the tailgate and slide the ends of the connecting arms onto the swing arm.
3. Slide both connecting arms onto the swing arms.
4. Square the tarp and the rear cross bar with the top of the tailgate.

5. Drill a 3/32" hole through each swing arm and connecting arm.
6. Fasten the swing arms to the connecting arms with 1/4" x 2" hex bolts.
7. Center the tarp from side to side on the rear cross bar.
8. Measure 4" from the edge of the tarp on both sides. Drill a 3/32" horizontal hole through the connecting arm and the cross arm. *Do not drill through the tarp.*
9. Fasten the arms with eye bolts, washers, and nylon nuts. (See figure 9)
10. Attach the spring to the grommet in each corner of the tarp and to the eye bolt. Crimp the ends of the springs.

Figure 14



11. Refer to figure 14. Pull the loose end of the tarp under the tarp roll-up bar, winding from the underside. Make sure the tarp is centered from side to side.

CAUTION: The tarp must be rolled from underneath, for the cranking system to operate.

12. Mark the tarp roll-up bar for screw placement using the grommets in the tarp as a guide.
13. Drill six 7/32" holes.
14. Fasten the tarp to the roll bar with self-tapping Phillips screws.

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STEP 8

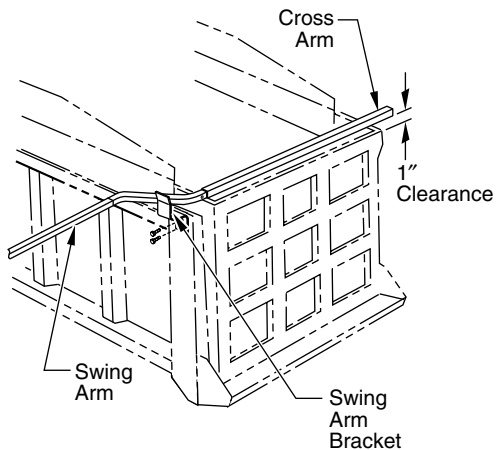
How to Install the Swing Arm Brackets

Parts you will need:

- Rear swing arm brackets (2)
- $\frac{5}{16}$ " x 1" self-tapping screws (4)
- $\frac{5}{16}$ " lock washers (4)

Note: The swing arm rear brackets keep the tarp from striking or rubbing the rear of the box when the tarp covers the load.

Figure 15



1. Refer to figure 15. Decide where to place the swing arm brackets by using the brackets to push the cross arm slightly upward off of the box (approximately 1"). Mark the location of the bracket.
2. Drill two $\frac{9}{32}$ " holes. Fasten the bracket in this location using $\frac{5}{16}$ " self-tapping screws and lock washers. Swing the cross arm down to double-check that the tarp is clear of the box.

CAUTION: Do not allow the cross arm to rest on the box or extend over the rear of the box. This will cause premature failure of the tarp.

STEP 9

How to Install the Wind Deflector (Optional)

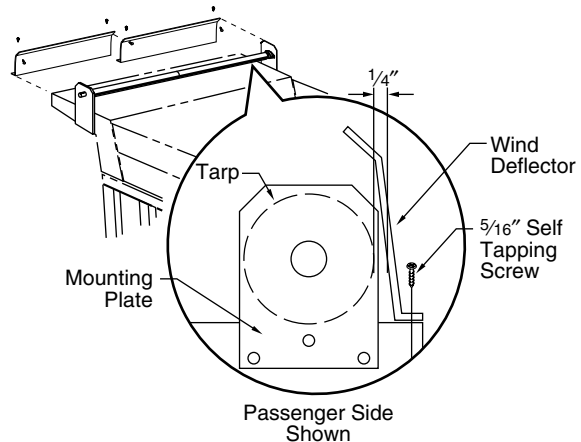
Parts you will need:

- Wind deflectors (2)
- $\frac{1}{4}$ " x $\frac{3}{4}$ " machine screws (4)
- $\frac{1}{4}$ " keps nuts (4)
- $\frac{5}{16}$ " self-tapping screws (5)
- $\frac{5}{16}$ " lock washers (5)

Note: If you are mounting the deflector somewhere other than across the front edge of the cab shield, you will have to place a support under the wind deflector to support the center of the deflector as well as to prevent air from getting under the tarp. Support is not included in the assembly package.

1. Refer to figure 16. Make sure dump is uncovered and tarp is wound around roll-up bar. Place one deflector on the passenger side mounting plate. Position deflector so there is $\frac{1}{4}$ " gap between deflector and tarp. Back the deflector up until it rests against the passenger side mounting plate (this provides support to the deflector). Fasten to cab shield with screws provided.

Figure 16



2. Place the other deflector on the driver's side mounting plate and fasten to the cab shield maintaining a $\frac{1}{4}$ " clearance between tarp and deflector. Where the two deflector plates meet, fasten the two deflectors together to support the center.

Economy Easy Cover

How to Operate the Tarp System

How to Uncover the Load

1. Insert the hand crank on the crank assembly, and turn clockwise. The tarp will roll up. You can stop at any point. The mechanism will hold the tarp in place.
2. Stop cranking when the tarp is completely rolled up.
3. Remove the hand crank and place in the cab for future use.







How to Cover the Load

1. Quickly pull the brake handle to the farthest-down position. The tarp will fly back a short distance and then stop. As long as you hold the handle down, the tarp will not move.

CAUTION: Do not let go of the brake handle until the tarp is fully over the load. The handle provides braking action for the tarp swing. If you let go of the handle before the tarp is over the load, it could cause damage to the crank assembly.





2. Carefully release brake handle until the tarp begins to move again. The tarp should move slowly. If the tarp is moving too fast, pull the handle slightly, to apply pressure on the brake.

Safety Considerations

-  **Warning:** Never operate the tarp system under obstructions, such as trees or power lines.
-  **Warning:** Always check to make sure that no one is at the rear of the box or in the immediate area of the tarp as it operates. Keep everyone clear of the area.
-  **Warning:** Make sure that all safety guards are in place before operating the tarp system.
-  **Warning:** Keep all clothing clear of moving parts.
-  **Warning:** Make sure the hand crank is removed before covering the load.
-  **Warning:** Be sure that your working platform is secure as you work on the truck. Use OSHA approved ladders or scaffolding to work above ground level.

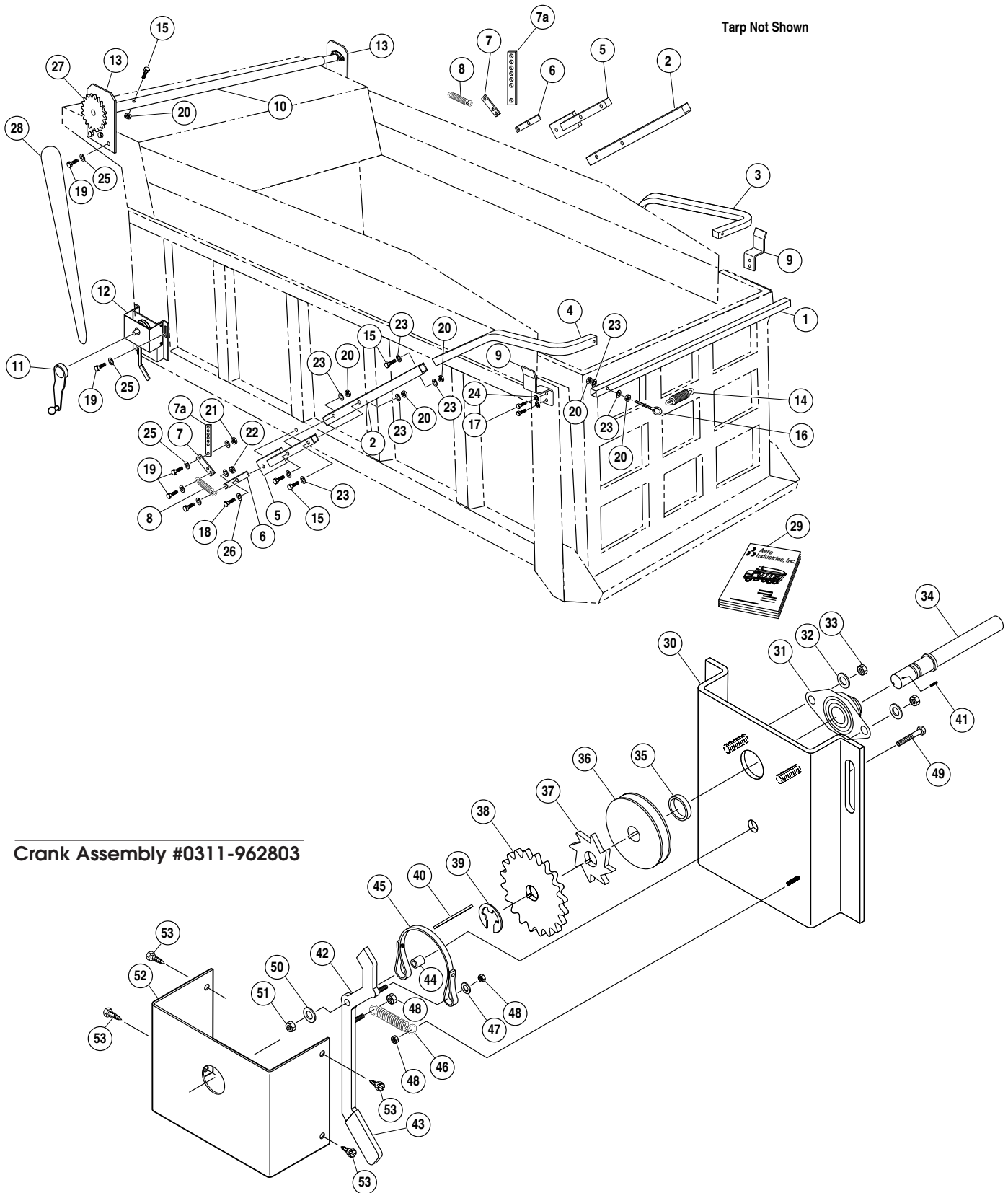
How to Maintain the Easy Cover

Minimal maintenance is required for the Easy Covers. Individual usage and operating conditions will determine when to check the Easy Cover. Aero Industries recommends a weekly inspection of the following items:

-  **Bearings:** Pull the shafts from side to side and in and out. If there is excessive play, replace the bearings. Lubricate as often as necessary with penetrating oil. Operating conditions will determine how often to lubricate. Do not use an excessive amount of lubricant.
-  **Springs:** Examine springs for breakage or stretching. Lubricate the tension springs with penetrating oil as often as conditions dictate.
-  **Screws:** Make sure that all mounting bolts and screws are in place and tight and that no parts are worn or damaged.
-  **General:** Replace all worn or broken parts immediately.

Replacement parts may be obtained from the dealer or by contacting Aero Industries.

Economy Easy Cover



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Economy Easy Cover

No.	Part No.	Description	Qty.	Crank Assembly Parts #0311-962803			
1	0311-862822	Cross Arm	1	No. Part No.	Description	Qty.	
2	0311-862823	Swing Arm	2	30	0311-962804	Mounting Plate w/Studs	1
3	0311-862828	Connecting Arm P.S.	1	31	0710-602175	Bearing 2 Bolt Flange	1
4	0311-862829	Connecting Arm D.S.	1	32	0820-680620	Washer Flat 3/8 Zinc	2
5	0311-962800	Lower Swing Arm	2	33	0815-660660	Nut Hex 3/8-16 Nylok Zinc	2
6	0311-862801	Swing Arm Insert	2	34	0311-860753	Shaft Crank Direct Drive	1
7	0311-862830	Spring Mounting Bracket	2	35	0311-862818	Spacer Crank Shaft Econo	1
7a	0311-862860	Extension Bracket	2	36	0311-860245	Brake Hub Economy E/C	1
8	0715-619305	Underbody Spring	2	37	0311-860750	Ratchet Economy E/C	1
9	0311-960249	Swing Arm Saddle	2	38	0311-862816	Sprocket Lower Econo E/C	1
10	0311-962521	Roll-up Bar	1	39	0840-618525	Snap Ring E-Style 3/4"	1
11	0311-962801	Crank Handle	1	40	0840-618529	Keystock 3/16" x 2 3/4"	1
12	0311-962803	Crank Assembly	1	41	0835-619610	Pin Spring 1/8" x 3/4"	1
13	0311-962805	Mounting Plate	1	42	0311-962807	Handle/Pawl w/Studs	1
14	0715-619601	Spring Tension 4" -2	2	43	0765-618839	Rubber Brake Handle Grip	1
15	0810-650473	Bolt HHCS 1/4" -20 x 2"	10	44	0311-862820	Spacer Brake Handle Econo	1
16	0810-650915	Bolt Eye 1/4 -20 x 1 1/2"	2	45	0311-962808	Brake Belt Assembly Econo	1
17	0810-650510	Bolt 5/16" x 1" Type F	12	46	0715-619810	Spring Extension Econ E/C	1
18	0810-650602	Bolt HHCS 1/2" -13 x 2 1/2"	2	47	0820-680410	Washer Flat 1/4 Zinc	1
19	0810-670660	Bolt HHCS 3/8" -16 x 1 1/2"	16	48	0815-660451	Nut 1/4-20 Nylon Insert	3
20	0815-660451	Nut Hex Nylon Lock 1/4" -20	12	49	0810-650102	Bolt HHCS 5/16-18 x 20 GR8	1
21	0815-660660	Nut Hex Nylon Lock 3/8" -16	16	50	0820-680510	Washer Flat 5/16 Zinc	1
22	0815-660855	Nut Hex Nylon Lock 1/2" -13	2	51	0815-660550	Nut Hex 5/16-18 Nylon	1
23	0820-680410	Washer Flat 1/4"	24	52	0311-960759	Crank Cover #040	1
24	0820-680520	Washer Split Lock 5/16"	4	53	0825-670459	Screw HH #14 x 1/2" Type F	2
25	0820-680620	Washer Flat 3/8"	32				
27	0311-962809	Sprocket Shaft Weldment	1				
28	0720-603545	Chain #35 x 14'	1				
29	0930-861807	Installation Manual	1				

You're Covered With Aero!

WARRANTY

Aero products come with a one year warranty on all parts. It's another example of our ongoing commitment to customer satisfaction and quality.

CUSTOMER SERVICE

1-800-535-9545

Our customer service technicians are trained to help you. Whether it's ordering, installation, or just general information on our products, you can count on expert advice from Aero.

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0930-861807

03/12/02



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