

# TARP SYSTEMS, PARTS & TARPS

P/N 1121423 Rev. F



# DuraPull™ Tarp System Belly Dumps, End Dumps, Dump Bodies & Pups

READ BEFORE INSTALLING

3353 SE GRAN PARK WAY **STUART**, FL 34997 PHONE 1-800-327-8287 **FAX** 772-287-0431 **www.donovan-tarps.com** 

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**WARRANTY.** We warrant all new products are free of defects in materials and workmanship.\* This warranty is effective if products are properly installed and used for the purpose for which they were intended and applies to the original buyer only. Except as set forth above or in any product-specific warranty documentation, we make no other warranties, express or implied, including but not limited to warranties of merchantability of fitness for a particular use.

Returns of a product for warranty must be accompanied by a Return Merchandise Authorization number (RMA#), obtained by by calling Customer Service at 866-748-7435, and sent, with freight paid by us, to Shur-Co®, LLC, 2309 Shur-Lok St., PO Box 713, Yankton, SD 57078. All products returned without an RMA# will be refused. When we issue the RMA#, we will also issue a call tag to have UPS (or other freight company) pick up the product. C.O.D. returns not accepted. We will pay no storage fees for a warranty product return prior to pick by us or the freight company. If a warranty product return is scheduled to be picked up by us, we will pick up the product at our earliest convenience.

If a product returned is found, in our judgement, to be defective in material or workmanship, our obligation under this warranty is limited to the repair or replacement of the product, which will be made by us. Repair or replacement will be at our discretion, with replacements being made using current products performing in the equivalent function. Labor charges, other than those incurred at our factory, including, but not limited to, any labor to install a repaired or replacement product, are not covered under this warranty. All expenses associated with delivering defective products to our factory and delivering repaired or replacement products from our factory to the owner will be paid by us.

If the product returned is found, in our judgement, to be non-warrantable, the owner will be contacted to authorize repair work, purchase of a replacement product or return of the product, all of which will be at the owner's expense. Payment authorization must be received by us before any non-warrantable product is repaired, replaced or returned. All expenses associated with delivering the repaired non-warrantable product, a replacement product or the non-warrantable product from our factory to the owner will be paid by the owner.

In no event will we be liable for any damages of any kind to person, product or property, including but not limited to indirect, incidental, special, consequential or punitive damages, or damages for loss of profits or revenue, even if we have been advised of the possibility of such damages. There are no warranties for used products or products that have been repaired, altered, modified or subjected to misuse, negligence or accident. We will not repair or replace products that fail or malfunction due to ordinary wear and tear, except as expressly noted in a product-specific warranty. Use of non-Shur-Co®, LLC parts in conjuction with Shur-Co®, LLC products will void this product warranty.

\*Certain products have specific warranties that differ from this warranty, for example motors and electronics. Product-specific warranty documentation is available for these items. In the event of a conflict between this warranty and a product-specific warranty, the product-specific warranty will govern.

**RETURN POLICY.** All sales final. See WARRANTY above for return details.

**OTHER.** All prices, product listings, sizes, weights and manufacturing details are subject to change without notice. No person is authorized to modify the foregoing conditions of sale whatsoever.

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For more info, log on to our website:

www.shurco.com

#### MESSAGE TO OWNERS

Thank you for buying this tarping system from Shur-Co<sup>®</sup>. We appreciate your confidence in our products. Please read and thoroughly understand this manual before installing and/or operating this system.

Pay particular attention to important safety and operating instructions, as well as warnings and cautions. The hazard symbol is used to alert users to potentially hazardous conditions and is followed by caution, warning or danger messages.

Failure to READ AND FOLLOW INSTRUCTIONS could result in failure of your tarping system and/or personal injury. Your trailer requirements may, however, call for minor variations to these instructions.

Please inspect your tarping system periodically. Repair or replace worn or damaged parts to your system.

QUESTIONS? CALL OUR HELP LINE:

1-866-748-7435

MON-FRI 8 AM-5 PM CENTRAL TIME

# **SAFETY**

We at Shur-Co® are concerned with your safety and the safety of all those operating this system. Therefore, we have provided safety decals at various locations on your tarping system. Keep decals as clean as possible at all times. Replace any decal that has become worn or damaged, painted over or otherwise difficult to read. Replacement decals are available through Shur-Co® dealers.

# SAFETY INSTRUCTIONS

- 1. Always wear safety glasses during installation and operation.
- 2. Stay clear of moving parts.
- 3. Do not operate under low-hung power lines. Always check for overhead obstructions before opening or closing.
- 4. Open and close tarp only at the job site.
- 5. Use caution when operating tarp system in windy conditions. Face vehicle into wind when opening and closing tarp.
- 6. Place safety decals in visible locations. Replace worn or damaged decals.
- 7. No other use of this system is authorized, except as designed.

## **TABLE OF CONTENTS**

| Hardware Identification      | 1 |
|------------------------------|---|
| Mounting Locations           | 2 |
| Tarp Housing Installation    |   |
| Pull Bar Hook Installation   |   |
| Tarp Installation            | 5 |
| Pull Bar Assembly            |   |
| Rope & Box Hook Installation |   |
| Setting Spring Tension       |   |
| Replacement Parts            |   |

# **TOOLS REQUIRED**

- 1. Wrenches 1/2", 9/16", 7/8"
- 2. Ratcheting Socket Wrench
- 3. Sockets 1/2", 9/16"
- 5. Drill Bit (metal cutting) 5/16"
- 6. Center Punch
- Hammer
- 8. Tape Measure
- 10. Grinder
- 11. Air or Electric Impact Wrench w/9/16" Socket
- 12. Metal Saw
- 13. Steel Welder or Aluminum Welder
- 14. Hex Driver Bit 5/16"
- 15. Phillips Driver Bit for Drill #3

#### **MAINTENANCE**

- Tighten any loose bolts.
- Replace worn/damaged/bent parts.
- Replace/repair worn or damaged tarps.

#### **RUST PREVENTION**

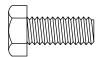
To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint.





1700398 Self-Drilling Screw - 1/4" x 3/4"





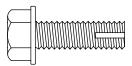
1701045 Cap Screw - 5/16" x 3/4"





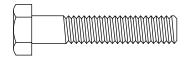
1703171 Cap Screw - 5/16" x 1/2"





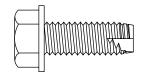
1701059 Self-Tapping Screw - 5/16" x 1"





1704451 Cap Screw - 5/16" x 1 5/8"





1700400 Self-Tapping Screw - 3/8" x 1"





1704454 Nylon Lock Nut - 5/16"





1700433 Lock Washer - 5/16"

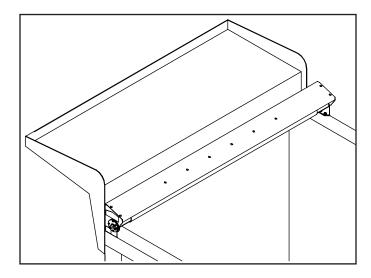


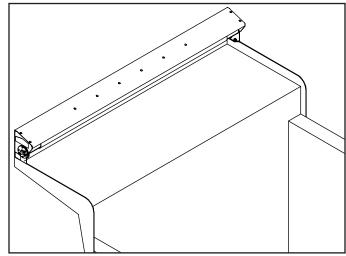


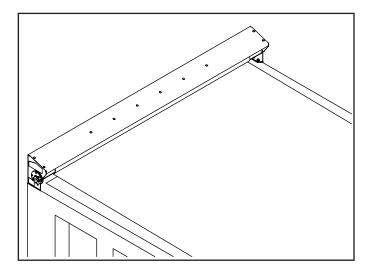
1700428 Flat Washer - 5/16"

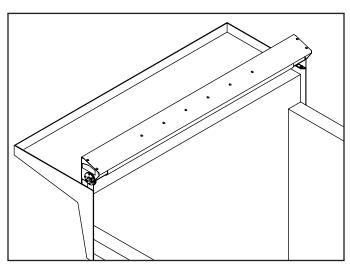
**STEP 1:** Determine desired mounting location for tarp housing.

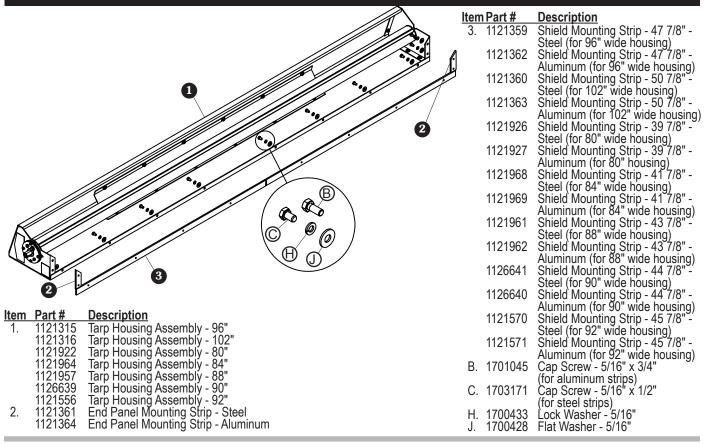
**NOTE:** The DuraPull™ system is designed to universally fit many different truck box designs. Brackets may need to be fabricated in order to mount tarp housing as desired.



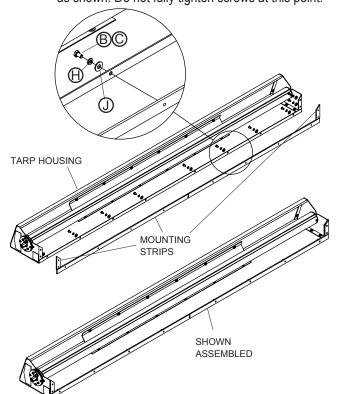




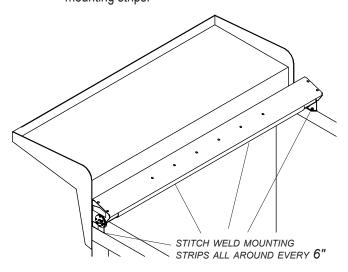




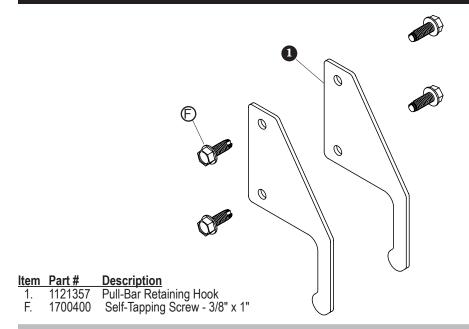
STEP 1: Fasten mounting strips to bottom of tarp housing with screws ③ or ⑥, lock washers ⑤ and flat washers ⑥, as shown. Do not fully tighten screws at this point.



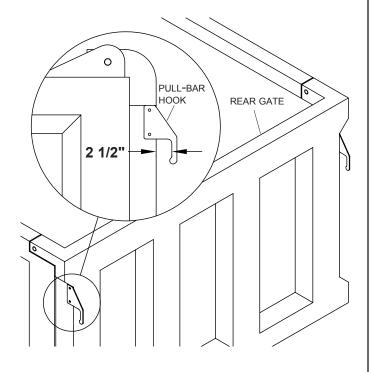
STEP 2: Place tarp housing in desired mounting location. Stitch weld mounting strips to truck box every 6" all around. Securely tighten fasteners holding tarp housing to mounting strips.



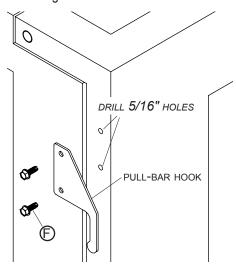
**NOTE:** To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint (not necessary for unpainted aluminum boxes).



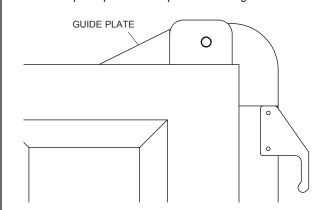
STEP 1: Align pull-bar hooks on rear gate. Space hooks far enough apart to allow tarp to fit between hooks. Mount hooks on rear gate as high as possible. Make sure pull bar can travel over gate to hooks without catching on any obstructions. Mount hooks to allow a 2 1/2" gap inside each hook for storing pull bar.



**STEP 2:** Mark and drill 5/16" holes and fasten pull-bar hooks to rear gate with screws **3** or weld hooks to gate.

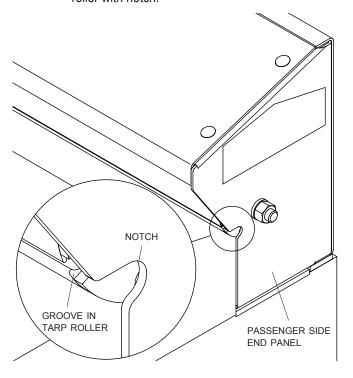


**NOTE:** If gate hinge is raised, a guide plate may need to be added to help the pull-bar ramp over the hinge.



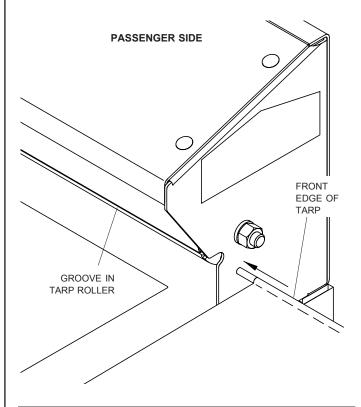
**Tarp Installation** P/N 1121423 Rev. F

**STEP 1:** On passenger side end panel, align groove in tarp roller with notch.



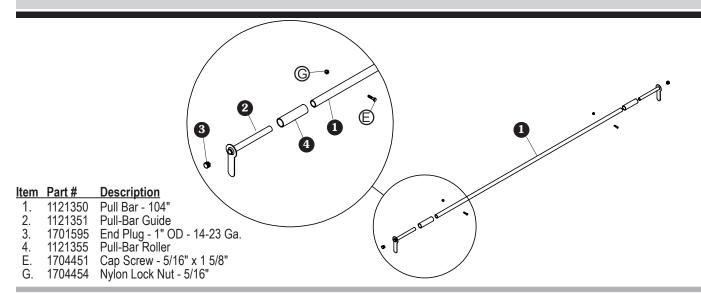
**STEP 2:** Lay out tarp, logo side up. Find front edge of tarp with plastic rod sewn in hem.

**STEP 3:** Install tarp into tarp roller. From passenger side of tarp housing, slide front edge of tarp into groove in tarp roller. Center tarp on tarp roller.



**TIP:** Before sliding tarp into tarp roller, spray tarp roller groove with silicone lubricant or soapy water, to help tarp slide more easily.

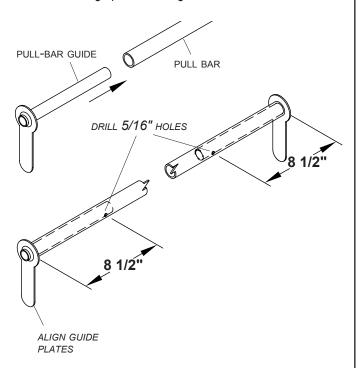
Pull Bar Assembly



STEP 1: Cut pull bar to fit truck box. Pull bar must be 2" wider than tarp housing or 2" wider than widest point on truck box, whichever distance is greater.

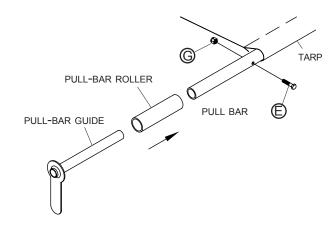
P/N 1121423 Rev. F

STEP 2: Insert pull-bar guides into ends of pull bar, aligning guide plates to face in same direction. Drill 5/16" holes through pull bar and guides as shown.



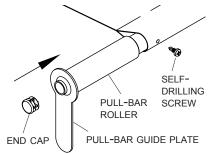
STEP 3: Remove guides and slide pull bar through rear pocket on tarp. Slide pull-bar rollers onto ends of pull bar and reinsert pull-bar guides into ends of pull bar. Fasten guides to pull bar with screws ③ and lock nuts ⑥, tightening securely.

**NOTE:** In most cases, screws will be hidden inside tarp pocket.

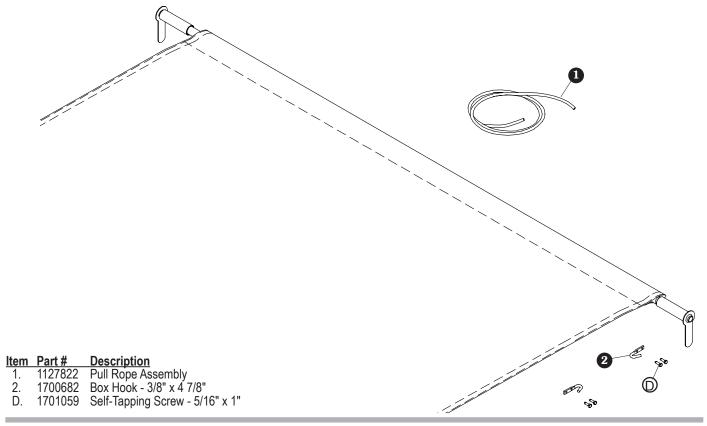


**NOTE:** Pull-bar rollers should fit between tarp edges and pull-bar guide plates. If tarp is wide enough for rollers to fit inside tarp pocket, cut rollers shorter so they fit between tarp and guide plates.

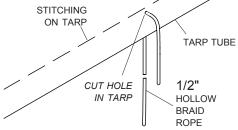
STEP 4: Install end caps into ends of pull-bar guides.



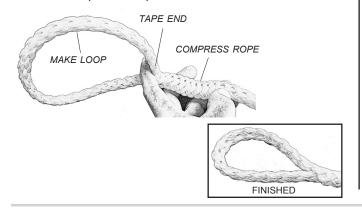
NOTE: Tarp can be fixed to pull bar with two self-drilling screws if desired. Make sure guide plates will point down during operation.



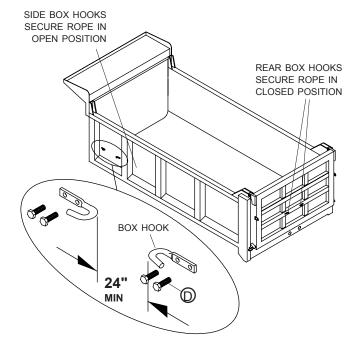
**STEP 1:** Rope return. Cut small hole in center of tarp just above tarp tube. Slide rope through hole in tarp and around tarp tube.



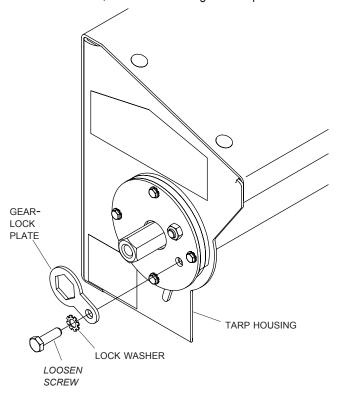
STEP 2: Wrap tape tightly around short end of rope and make loop in rope. Slide rope through rope braids and hollow center while compressing section of rope past loop. Insert rope minimum of 8".



STEP 3: Install box hooks at rear and on side of box for rope storage. Place in convenient location, spacing at least 24" apart. Mark and drill 1/4" holes and fasten with screws ①.

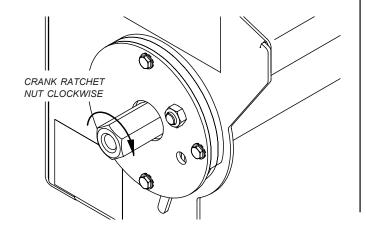


STEP 1: Before setting spring tension, pull tarp out and over tailgate as far as it will go. Secure tarp to tailgate with a rope to prevent tarp from retracting. Loosen screw holding gear-lock plate to tarp housing. Remove screw, lock washer and gear-lock plate.



STEP 2: Using a 7/8" wrench, crank ratchet nut clockwise to build spring tension. Count the number of turns and use the table below as a guide.

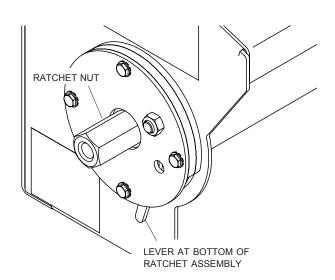
| APPROXIMATE PRE-LOAD TURNS |       |       |       |  |  |
|----------------------------|-------|-------|-------|--|--|
| Tarp Length                | 13'   | 18'   | 25'   |  |  |
| Turns                      | 30/35 | 35/40 | 40/45 |  |  |



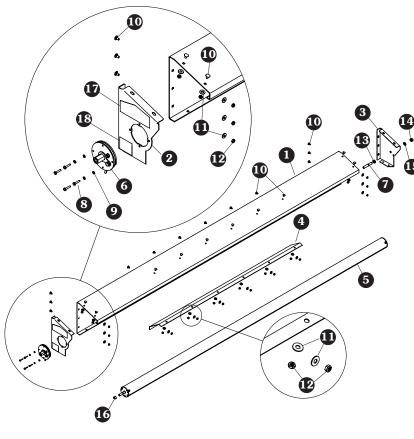
STEP 3: Untile rope from tailgate and open and close tarp a few times. If tarp does not fully retract, or if more tension is needed, pull tarp toward tailgate as far as possible and secure tarp to tailgate. Add five more turns to ratchet assembly and test operation again. Repeat this procedure until you reach desired spring tension. Do not exceed 60 turns.

STEP 4: When spring tension is adequate, reinstall gear-lock plate and fasten plate to tarp housing by replacing lock washer and screw, tightening securely.

STEP 5: To decrease tension or remove ratchet assembly, first remove gear-lock plate. Place 7/8" wrench onto ratchet nut and apply pressure in clockwise direction. Pull back lever at bottom of ratchet assembly to disengage ratchet pawl and slowly turn wrench counter-clockwise to reduce spring tension. Release lever to reengage ratchet. When ratchet has reengaged, remove wrench.



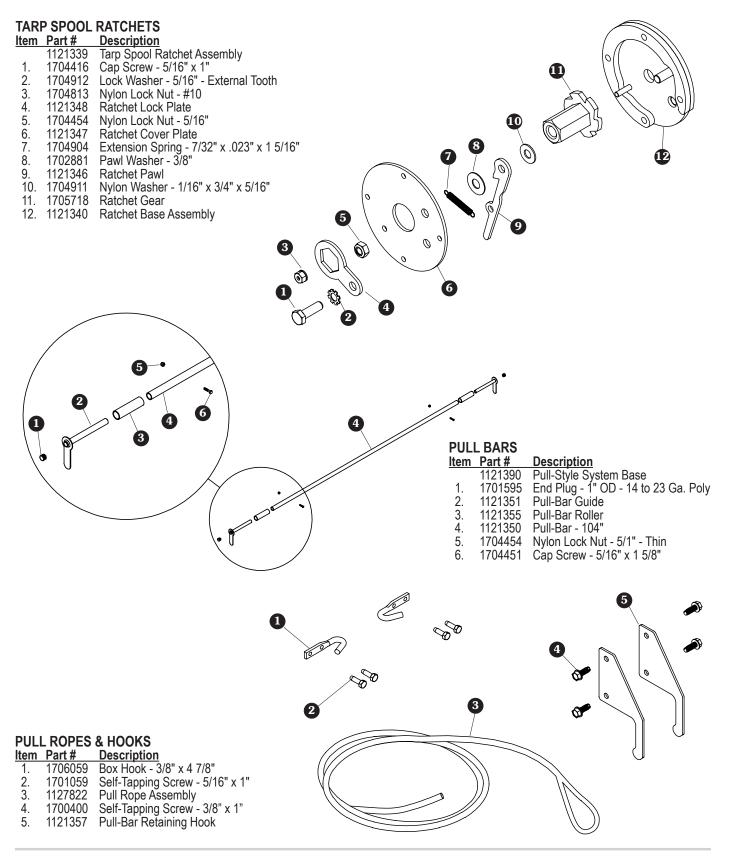
**NOTE:** If removing ratchet assembly, make sure all spring tension is removed before disassembling.



# TARP HOUSINGS

| Tari     | P HOUSIN           | IGS  |   |
|----------|--------------------|--|---|
| ltem     |                    | <u>Description</u>                                       |   |
|          | 1121315            | Tarp Housing Assembly - 96"                              |   |
|          | 1121316            | Tarp Housing Assembly - 102"                             |   |
|          | 1121922            | Tarp Housing Assembly - 80"                              |   |
|          | 1121964            | Tarp Housing Assembly - 84"                              |   |
|          | 1121957            | Tarp Housing Assembly - 88"                              |   |
|          | 1126639            | Tarp Housing Assembly - 90"                              |   |
|          | 1121556            | Tarp Housing Assembly - 92"                              | 1 |
| 1.       | 1121319            | Tarp Housing Shield - 96"                                | 1 |
|          | 1121320            | Tarp Housing Shield - 102"                               | ١ |
|          | 1121923            | Tarp Housing Shield - 80"                                |   |
|          | 1121965            | Tarp Housing Shield - 84"                                |   |
|          | 1121958            | Tarp Housing Shield - 88"                                |   |
|          | 1126643            | Tarp Housing Shield - 90"                                |   |
| •        | 1121557            | Tarp Housing Shield - 92"                                |   |
| 2.<br>3. | 1121317            | Tarp Housing End Panel - Driver Side                     |   |
| 3.       | 1121318            | Tarp Housing End Panel - Pass. Side                      |   |
| 4.       | 1121321            | Tarp Housing Shield Brace                                |   |
| 5.       | 1121322            | Tarp Spool Assembly - 96"                                |   |
|          | 1121323            | Tarp Spool Assembly - 102"                               |   |
|          | 1121924            | Tarp Spool Assembly - 80"                                |   |
|          | 1121966            | Tarp Spool Assembly - 84"                                |   |
|          | 1121959            | Tarp Spool Assembly - 88"                                |   |
|          | 1126644            | Tarp Spool Assembly - 90"                                |   |
| 6        | 1121558            | Tarp Spool Assembly - 92"                                |   |
| 6.<br>7. | 1121339<br>1121349 | Tarp Spool Ratchet Assembly                              |   |
| 7.<br>8. | 1704905            | Tarp Spool Idler Stud<br>Hex Flange Cap Screw - #10 x 1" |   |
| 9.       | 1704913            | Lock Washer - #10 - External Tooth                       |   |
| 10.      | 1704916            | Carriage Bolt - 1/4" x 1/2" - Zinc Plated                | 4 |
| 11.      | 1704300            | Flat Washer - 1/4 USS                                    | ı |
| 12.      | 1700427            | Nylon Lock Nut - 1/4" - Thin                             |   |
| 13.      | 1700413            | Hex Jam Nut - 1/2"                                       |   |
| 14.      | 1700413            | Hex Nut - 1/2" ZP  |   |
| 15.      | 1700437            | Lock Washer - 1/2"                                       |   |
| 16.      |                    | Manual Crank Pulley Spacer                               |   |
| 17.      | 1704935            | Decal - DuraPull™  |   |
| 18.      | 1704936            | Decal - Ratchet Warning - DuraPull™                      |   |
|          | . 7 0 1000         | 200a. Ratoriot Harring Barar an                          |   |

#### TARP HOUSING MOUNTING STRIPS Item Part # Description End Panel Mounting Strip - Steel 1121361 1121364 End Panel Mounting Strip - Aluminum 2. 1121359 Shield Mounting Strip - 47 7/8" - Steel (for 96" wide housing) Shield Mounting Strip - 47 7/8" - Aluminum 1121362 (for 96" wide housing) Shield Mounting Strip - 50 7/8" - Steel 1121360 (for 102" wide housing) 1121363 Shield Mounting Strip - 50 7/8" - Aluminum (for 102" wide housing) 1121926 Shield Mounting Strip - 39 7/8" - Steel (for 80" wide housing) 1121927 Shield Mounting Strip - 39 7/8" - Aluminum (for 80" wide housing) Shield Mounting Strip - 41 7/8" - Steel 1121968 (for 84" wide housing) Shield Mounting Strip - 41 7/8" - Aluminum 1121969 (for 84" wide housing) 1121961 Shield Mounting Strip - 43 7/8" - Steel (for 88" wide housing) 1121962 Shield Mounting Strip - 43 7/8" - Aluminum (for 88" wide housing) Shield Mounting Strip - 44 7/8" - Steel 1126641 (for 90" wide housing) Shield Mounting Strip - 44 7/8" - Aluminum 1126640 (for 90" wide housing) 1121570 Shield Mounting Strip - 45 7/8" - Steel (for 92" wide housing) 1121571 Shield Mounting Strip - 45 7/8" - Aluminum (for 92" wide housing) 1703171 Cap Screw - 5/16" x 1/2" 3. (for steel strips) 1701045 Cap Screw - 5/16" x 3/4" (for aluminum strips) 1700433 Lock Washer - 5/16 5. 1700428 Flat Washer - 5/16" **TARP SPOOLS** Item Part # **Description** Tarp Spool Assembly - 96" 1121322 1121323 Tarp Spool Assembly - 102" Tarp Spool Assembly - 80" 1121924 Tarp Spool Assembly - 84" 1121966 Tarp Spool Assembly - 88" 1121959 1126644 Tarp Spool Assembly - 90" Tarp Spool Assembly - 92" Flange Bearing - 1/2" - Snap In Tarp Spool End Cap 1121558 1704908 2. 1128200 Self-Drilling Screw - 1/4" x 3/4" 3. 1700398 1121332 Spring Shaft Tarp Spool Tube - 94 3/4" 1121337 Tarp Spool Tube - 100 3/4" 1121338 Tarp Spool Tube - 78 3/4" 1121925 1121967 Tarp Spool Tube - 82 3/4" Tarp Spool Tube - 86 3/4" Tarp Spool Tube - 88 3/4" 1121960 1126647 Tarp Spool Tube - 90 3/4" 1121559 Torsion Spring - 1 1/2" x 1/8" x 47" 1704765 1121327 Spring Spacer Tube 7. Spring Tube Catch 8. 1121328 1704919 Flat Washer - 1/2" 10. 1704907 Cotter Pin - 1/8" x 1"



P/N 1121423 Rev. F **Notes** 

# MORE QUALITY PRODUCTS FROM DONOVAN<sup>TM</sup>

# **■** Construction Products

- Arm-Matic<sup>™</sup>
- DuraPull™
- Econo-Pull™
- Turbo Tarp2™
- 2000 Series
- 5000 Series
- Hammer™
- Bullet™
- Flash™
- Long Arm<sup>TM</sup>

# **■** Waste Products

- SWAT TM
- The  $Ox^{TM}$
- Quick-Flip III™
- Sidewinder™
- Sidewinder™ 350
- HyTower™ SL
- $HyTower^{TM}$  DL
- Double-Flip™
- Donovan Belt & Ratchet (DBR)

