

SIDEWINDER II™ SPECIFICATIONS

Fully automatic trailer covering system to be Donovan Enterprises' **SIDEWINDER II™** model for use with all open top trailers.

- Part # 1059 (Drivers Side Mount) or Part # 1059C (Curb Side Mount) – Self Contained Hydraulic / Electric Pump
- Part # 1059W (Drivers Side Mount) or Part# 1059CW (Curb Side Mount) – Hydraulic Wet Kit

INSTALLATION AND OPERATION

- Fits on trailers from 15' to 53' long and 91" to 104" wide.
- All hinges mount on the same side of trailer, leaving other side clear for unobstructed loading.
- Actuator assembly hydraulically rotates arm 270° moving tarp from top of trailer to flush against side of trailer without the use of springs or chains.
- Two **SIDEWINDER II™** configurations are available. When ordering, customer specifies which side of the trailer unit will mount on (**SIDEWINDER II™** tarp rotates to hinge side of trailer).

HINGE ASSEMBLIES

Hinge assemblies are located on three separate mounting brackets. There are two hinge assemblies on front mounting bracket and the rear mounting bracket, and one hinge assembly on center mounting bracket.

Each hinge assembly contains the following parts:

- (1) 1 1/2" – 14 gage X 12 1/2" CRS hinge pin.
- (2) 1 1/2" split shaft collars.
- (6) 1 1/2" inside diameter oil impregnated bronze bushings.
- (3) 1 1/2" schedule 80 hinge sleeves (2 attached to bracket and 1 attached to lid hinge). Sleeves include zirk fittings for greasing.

LADDER ASSEMBLY

Two sections of three ladder assemblies, that have been welded together, are cut to length to fit on trailers from 15' to 53'.

- (2) 1 1/2" – 14 gage square tubing 88" long welded together with (4) equally spaced 1 1/2" – 14 gage square tubing 9" long per ladder assembly.
- Ladder assemblies connected together with "H" connector made from (2) 1 1/2" – 14 gage square tubing 12" long welded together with (1) 1 1/2" – 14 gage square tubing 8 1/2" long.

MOUNTING BRACKETS

Tarp mechanism is attached to top rail of trailer by three mounting brackets (Front bracket, center bracket, and rear bracket) located at three places along the length of the trailer.

- Front bracket
 - (1) 1 1/2" 3 X 3 angle 28" long
 - Mounts on the top rail of the trailer in the corner where the front and side meet.
 - (4) Hinge sleeves attached on top of the 3 X 3 angle. This allows for two hinge assemblies to be installed to the front bracket.
- Center bracket
 - (1) 1 1/2" 3 X 3 angle 18" long.
 - Mounts on the top rail of the trailer approximately in the center of trailer length.
 - (2) Hinge sleeves attached on top of the 3 X 3 angle. This allows for two hinge assemblies to be installed to the center hinge.
- Rear bracket

- (1) 3 X 3 angle 28" long.
- Mounts on the top rail of the trailer at the rear of the trailer length.
- (4) Hinge sleeves attached to the top section of the 3 X 3 angle. This allows for two hinge assemblies to be installed to the rear bracket.

SELF-CONTAINED HYDRO-ELECTRIC POWER UNIT

12-volt (DC) hydro-electric power unit mounts to front of trailer. Power unit characteristics are:

- .75 gallon per minute flow rate.
- 1950 psi maximum operating pressure. 1750 psi minimum operating pressure.

Also includes:

- Pre-fabricated mounting bracket.
- (3) hydraulic fittings.
- (2) diameter hydraulic hoses (5000 psi) with hose fittings (one 30" section and one 26" section).
- (2) 12' long section of double strand 6 gage electrical wire with crimp on lugs and a quick disconnect.
- (2) .75 gpm pressure compensating flow control fitting (allows smooth, even operation in both directions).
- (1) Waterproof bi-directional remote operating switch with 12' of cord.

WET KIT HYDRALIC (OPTIONAL)

Wet Kit allows front actuator assembly to operate off of the trailers existing hydraulic system. Wet kit characteristics are:

- 1 gallon per minute flow rate.
- 1950 psi maximum operating pressure. 1750 psi minimum operating pressure.

Kit includes:

- (1) Priority flow control – 1 gallon per minute. Includes adjustment valve.
- (1) Single spool control valve
- (1) 1" Male branch tee fitting
- (2) 5' Hydraulic hose with #4 JICF end fittings
- (1) 8' Hydraulic hose with #4 JICF end fittings
- (1) 9' Hydraulic hose with #4 JICF end fittings

ACTUATOR

- (1) Actuator assembly – backhoe design
- (1) 2" x 15" Hydraulic cylinder
- (3) 3/8" Steel linkages - Provide increase in mechanical advantage of linear motion from hydraulic cylinder
- (7) Oil impregnated brass bushings
- (1) UHMW Roller on 1" zinc plated steel shaft - connects actuator arm and roller track on front lid
- (1) Black powder coated wind deflector

LIDS

There are three lids (front lid, center lid, and rear lid) with adjustable lid extensions that are welded in place to accommodate trailers from 91" to 104" wide.

- Front lid
 - (2) 1" – 14 gage square tubes with a 90° angle held together with multiple 1" gage square tubes to achieve overall dimensions of 88" long leg, 37" short leg and 11" wide.
 - 48" of trolley track welded to front of lid.
 - (1) 1" – 14 gage square tube 18" long with a thick 3 X 3 angle 3" long attached.
 - Adjustable length to fit trailers between 91" to 104" wide.

- Center lid
 - (2) 1 1/2" – 14 gage square tubes 24" long held together with two 1 1/2" – 14 gage square tubes 8 1/2" long.
 - (1) 1 1/2" – 14 gage square tube 78 1/2" long attached to make overall length 88".
 - (1) 1 1/2" – 14 gage square tube 18" long with a 1/2" thick 3 X 3 angle 3" long attached.
 - Adjustable length to fit trailers between 91" to 104" wide.
- Rear lid
 - (2) 1 1/2" – 14 gage square tubes with a 90° angle held together with multiple 1 1/2" gage square tubes to achieve overall dimensions of 88" long leg, 37 1/2" short leg and 11 1/2" wide.
 - (1) 1 1/2" – 14 gage square tube 18" long with a 1/2" thick 3 X 3 angle 3" long attached.
 - Adjustable length to fit trailers between 91" to 104" wide.

TARP

(Two Options)

#2857 (Standard)

One 106" wide length of tarp material used to accommodate trailers 15' to 53' long and 91" to 104" wide.

- (1) Roll of polypropylene dense weave tarp fabric 106" X 53' with 3/8" X 3/8" mesh.
- Material is UV protected.
- Finished straight edge along full length of tarp.

#1906

One 115" wide length of tarp material used to accommodate trailers 15' to 53' long and 91" to 104" wide.

- (1) Roll of polyester knit tarp fabric 115" X 53' with 1/4" X 1/4" mesh.
- Material is UV protected.
- Finished straight edge along full length of tarp.

FINISH

All steel components must be finished with a two part alkyd enamel primer and two part alkyd enamel finish.

HARDWARE

Covering system is to be supplied with all of the nuts, washers, mounting brackets, installation instructions, warning stickers/labels, and miscellaneous hardware necessary to install the mechanism onto trailer. Due to the various trailer configurations, it will be necessary to purchase approximately 2 dozen 1/2-13 bolts (length of bolts will vary by width of trailer's side wall and side wall's top lip).