

QUICK FLIP II SPECIFICATIONS

Hydraulic automatic roll-off truck covering system to be Donovan Enterprises' Quick Flip II model for use with 10 yard to 40 yard roll-off containers.

INSTALLATION AND OPERATION

- Base assembly hydraulically raises tarp 8 feet above truck frame.
- Tarp is automatically deployed using a hydraulic direct drive motor and the use of pivot arms and external springs.
- System delivered in four parts:
 - Fully assembled base assembly.
 - Fully assembled tarp housing and motor driven roller bar assembly.
 - Hydraulic kit for using existing truck control valves, or optional supplied control valve and diverter valve block to access the trucks hydraulics.
 - Unassembled aluminum pivot arms and assembled torsion spring housings.

BASE ASSEMBLY

2-Stage telescoping design capable of raising tarp 8 feet above truck frame utilizing one 2000-psi hydraulic cylinder.

- Base assembly legs are 3" and 2" square steel tubing with 7-gauge walls.
- Single hydraulic cylinder with 1" bore and 42" stroke, welded construction with integral mounting flange. Cylinder maximum operating pressure is 2000-psi.

TARP HOUSING AND ROLLER BAR ASSEMBLY

- Tarp housing is 100" long and deflects wind by covering front, top, and ends of roller bar.
- Hydraulic direct drive motor mounted to driver's side of housing and supporting the tarp roller bar.
- 1" flange bearing mounted on passenger's side of housing.
- Roller bar characteristics:
 - Extruded aluminum allowing tarp to be attached using spline, through bolts, or 1/2"-20 threaded bolt.
 - Length; 98".
 - Internal diameter of extrusion; 1 1/2".
- Hydraulic drive system characteristics:
 - Hydraulic, auto locking, direct drive motor.
 - 1 1/2" diameter drive shaft that supports the tarp roller bar.
 - All hoses supplied to motor and cylinder.
 - Motor driven by flow from existing trucks control valves or optional supplied control valve and diverter valve block allow forward and reverse operation of the roller bar.

UNASSEMBLED PIVOT ARM AND TORSION SPRING ASSEMBLY

- Pivot arms are constructed of one lower aluminum arm section with 40 degree bend and one short upper aluminum arm section with the following characteristics:
 - Arms are constructed of a bendable alloy. If bent they can be bent back into shape.
 - Upper and lower arms are connected using a 1 1/2" OD x .125 wall tube.
 - Arms pivot on one piece forged steel insert and shaft.
- Rear crosspiece is constructed of 1.90" OD aluminum tube with .140" wall.
- The heavy duty silicone chrome torsion springs are .625" wide and have a coil diameter of 3.46".
- The heavy duty spring housings are assembled with (9) torsion springs, and the forged pivot shaft installed.

FINISH

- All steel components must be finished with a primer and a gloss enamel finish (black).

HARDWARE

- Covering system is to be supplied with all of the nuts, washers, bolts, mounting brackets, installation instructions and miscellaneous hardware necessary to install the mechanism onto the truck frame. Bracing that may be necessary for accommodations around tires or to reinforce tire guards are not supplied.