

Donovan Enterprises
“7800GL”
ELECTRIC OPERATED TARPING SYSTEM

Truck covering system to be Donovan Enterprises model 707 (7800GL) for use on trailer bodies up to 30' in length.

SYSTEM WEIGHT

The complete Hammer as packaged weighs 325 lbs, is weight class 55, and comes in one box.

GROUND LEVEL DRIVE SYSTEM

Covering system to be operated with a ground level control box mounted on the side wall of the dump trailer on driver's side. The control box has sealed bearings and a spring loaded disengaging crank handle. The safety brake handle is mounted on control box shaft with synthetic brake pad acting as an intermediate barrier between the braking surface and rotation shaft. Brake handle must provide enough force to immediately stop the movement of the pivot arms when operator's hand is depressing brake handle at any point throughout the pivot arm's full range of motion. The control box has secondary positive locking system in addition to brake handle. The control box sprocket is mounted inside of control box housing and has 20 teeth. The roller bar sprocket has 18 teeth. Both sprockets are to drive #40 chain. All chain guards are made of galvanized steel and are to cover front, rear, side and top of entire length of chain and top sprocket.

ROLLERBAR ASSEMBLY

Roller bar assembly to be a one-piece extruded aluminum design. Roller bar spline groove will be routed 3" minimum at center for tarp change. Roller bar has a 1 1/2" inside diameter. The extrusion pattern is such that a tarp may be installed using a spline or through bolts. 3/16" Steel bearing plates mount on front of trailer to support roller bar. Bearing plates include a 1 1/2" inch diameter sealed flange bearing to support roller bar.

WIND DEFLECTOR ASSEMBLY (OPTIONAL)

Wind deflector to be constructed of 2 pieces of 16 gauge galvanized steel, and adjustable to accommodate various width of roller bar. Wind deflector to be mounted on cab shield in front of roller bar assembly to facilitate airflow over tarp.

PIVOT ARM AND TORSION SPRING ASSEMBLY

The pivot arms are constructed in a 2-piece arm configuration. The lower pivot arms are 144" long and are constructed of 14 gauge steel 1 1/2" square tubing. The lower pivot arms are oriented differently to mount to the driver side or passenger side pivot mounts. The lower pivot arms include a 1 1/2" x 1 1/2" x 12' steel flat bar reinforcement that is welded to the rear of the arm. The upper arms are 61" long and are constructed of 13 gauge steel 1 1/4" square tubing. The upper arm is bent at a 90 degree angle for insertion into the rear cross piece. The rear cross piece is constructed of 11 gauge steel square tubing 96" inches in length.

Springs are 5 coil heavy duty silicone chrome torsion springs with a 5/8" wire size. They are 3 1/2" wide and have a coil diameter of 6". The springs are oriented differently to mount to the drives side or passenger side pivot mounts and lower pivot arms. Each spring has a stop end that is 4 _" in length and an insert end that is 24" in length. Each unit uses 1 spring per side, mounted to a circular pivot mount. The stop end of the spring is installed to the inside on the assembly. The insert end is mounted to the outside and is inserted into the square tubing lower pivot. Pivot arm mounting brackets are constructed of steel with 1" shaft and will be welded to steel trailer body. The pivot mount shaft supports the lower pivot arm and spring assembly.

FINISH

All steel components are finished with a two part alkyd enamel primer and two part alkyd enamel finish (black).

HARDWARE

Covering system is to be supplied with all of the nuts, bolts, mounting brackets, installation instructions and miscellaneous hardware necessary to install the mechanism onto the truck body. All hardware is of grade 5 or higher.

PRODUCT DIAGRAMS

Diagram 1: Heavy duty ground level crank box with positive safety locking system

