FIRE APPARATUS

SERVICE AND MAINTENANCE

PROGRAM

P.O. BOX 57 • LYONS, SD 57041
605-543-5591

AKRON®

FIRE-FIGHTING EQUIPMENT

AKRON SWING-OUT™ VALVE

INSTALLATION INSTRUCTIONS

The improved Swing-Out Valve has several new features for better installation and operation. These include:

For 7800 Series Tork-Lok® Valves

- One piece trunnion plate and Tork-Lok sleeve for improved operation
- Stainless steel trunnion plate for improved corrosion resistance
- New stop plate allows the handle position to be changed easily
- 1″ valve upgraded to include the 1½″ Tork-Lok mechanism
- R-1 remote handle now cadmium plated solid steel
- The new 1½″ to 3½″ Tork-Lok mechanisms are interchangeable with existing valves

For 7600 Series Non Tork-Lok Valves

- New body design eliminates trunnion plate
- New stop plate allows the handle position to be changed easily
- New SZ Twist-Lok handle provides improved locking, durability and adjustment for wear

INSTALLATION INSTRUCTIONS

There are many different handles and adapters available to suit various requirements. Select the ones that best suit your application.

Install the valve in either direction. All Swing-Out Valves are equipped with two seats so that they can hold either pressure or vacuum in both directions.

The maximum operating pressure for 1½″, 2″, 2½″, 3″ and 3½″ valves is 500 PSI. The maximum operating pressure for 1″ valves is 1000 PSI.

When installing threaded adapters, always use a wrench on the adapter adjacent to the pipe being connected. DO NOT TIGHTEN THE PIPE WITH A WRENCH ON THE VALVE BODY, OPPOSITE ADAPTER OR PIPE AT THE OTHER END OF THE VALVE. The flange bolts are not designed to withstand the stress of tightening pipes.

Each valve has been tested in both directions at the factory. If possible do not disassemble the valve to install it.

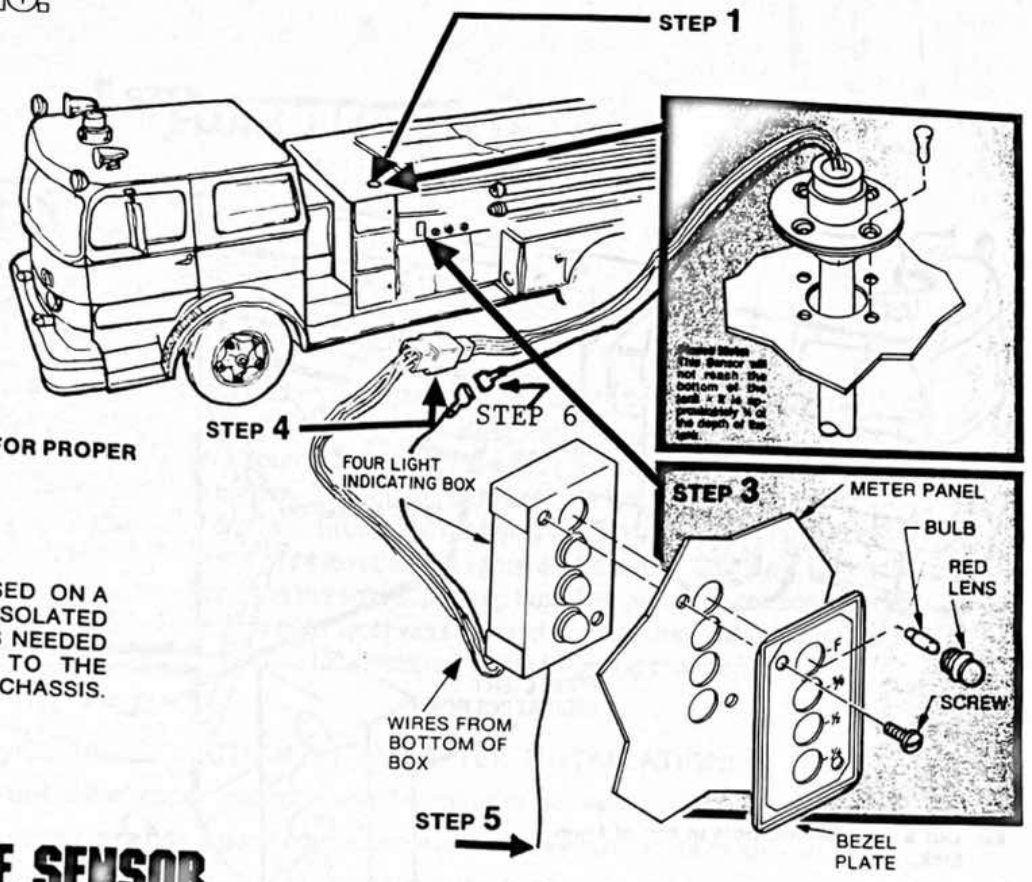
If it is necessary to disassemble the valve, always turn the ball to the open position before removing the flange bolts. In this position the valve body can be removed from between the flanges without affecting the plumbing. When reassembling the valve, THE BALL MUST BE IN THE CLOSED POSITION BEFORE THE BOLTS ARE TIGHTENED. The waterway through the ball is always parallel to the groove in the top of the handle trunnion.

Do not weld to or bend the steel handle. Contact Akron Brass for a special offset handle. Drilling an extra hole in the R-1 handle will not adversely affect the strength of the handle.

FIRE PUMPER INSTALLATION FOR LIQUID LEVEL FLUIDMETER

MC PRODUCTS, INC.

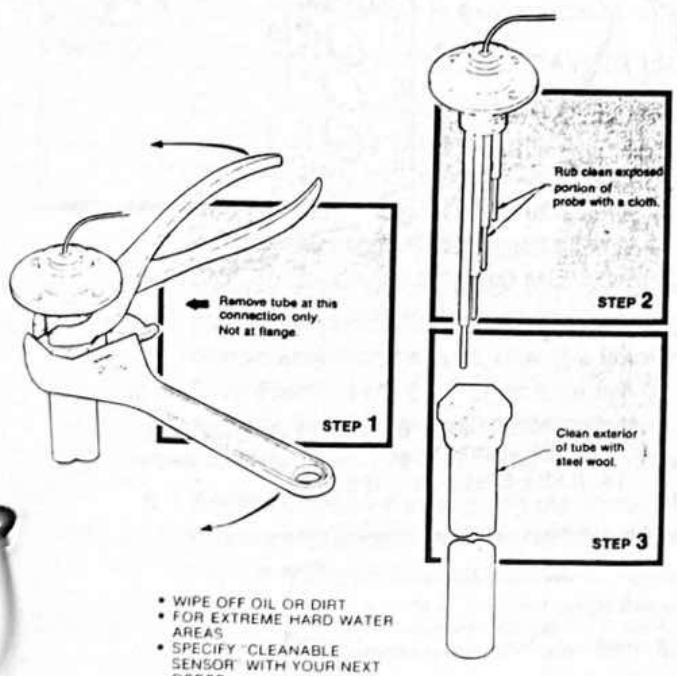
One Rabro Drive
Hauppauge, NY
11788-4210 USA
(516) 582-5252
Telex: 64-7034
1-800-843-6465
FAX-516-582-5341



CHECK ALL GAGES DAILY FOR PROPER OPERATION.

IF THIS UNIT IS TO BE USED ON A FIBERGLAS OR CHASSIS ISOLATED TANK, A GROUND WIRE IS NEEDED FROM THE SENSOR HEAD TO THE READOUT BOX AND TRUCK CHASSIS.

CLEANABLE SENSOR



- WIPE OFF OIL OR DIRT
- FOR EXTREME HARD WATER AREAS
- SPECIFY "CLEANABLE SENSOR" WITH YOUR NEXT ORDER
- MORE YEARS OF SERVICE

STEPS

1. Drill 1½" (38mm) hole in top of water tank.
2. Insert sensor thru newly drilled hole in top of tank and using sensor head as a template, transfer drill and tap (4) 1/4" (6mm) screws. After tapping, firmly screw down sensor and route cable to back of meter panel.
3. Using bezel plate as a template, mark off holes on meter panel and drill (4) 3/4" (19mm) holes and (2) 3/16" (5mm) holes. Then sandwich together as shown with furnished mounting screws.
4. Plug molded connectors together.
5. Splice yellow wire to ignition or hot line as very last step.
6. Plug insulated connectors together-grey wires (or both to chassis ground).

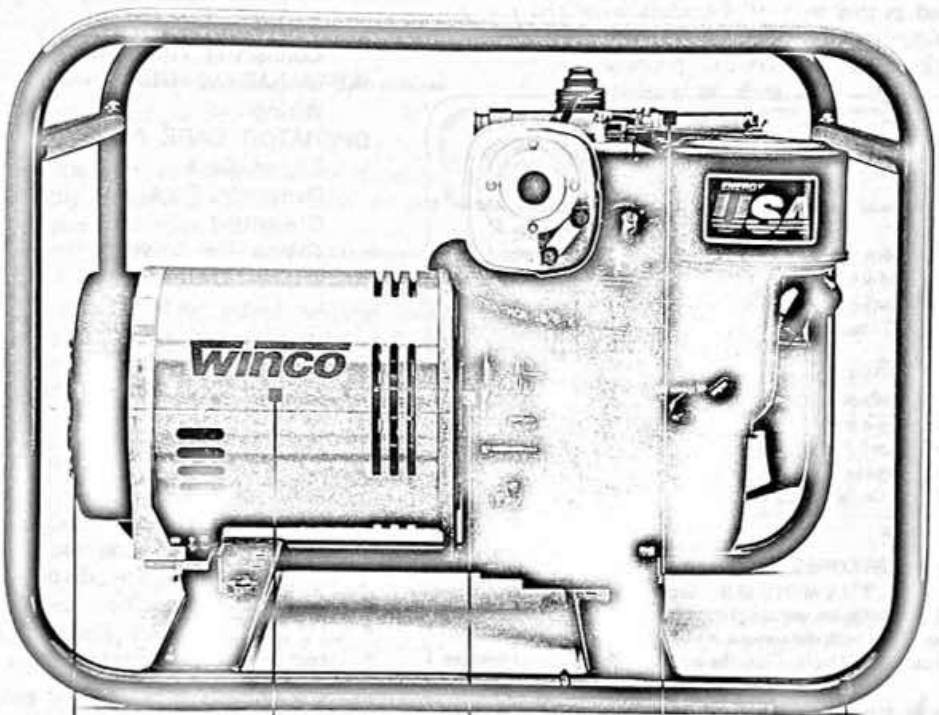
11-FOOT EXTENSION CABLES FURNISHED ON REQUEST.

Winco®

POWERMIGHT Series

OWNERS MANUAL

DP4500/N
DP4500E/N
DP6000E/M



POWER PANEL
Receptacles mounted in generator end cover

GENERATOR
Powerful, efficient "Maxi-Watt II" brushless A.C. Generator

ENGINE
Briggs & Stratton, 4-cycle, air cooled, gasoline engine
Extra-quiet muffler with USDA approved spark arrester

FUEL TANK
Compact engine mounted fuel tank

FRAME
Full wraparound frame for complete protection

WINCO®
GENERATORS

225 South Cordova Avenue
Le Center, Minnesota 56057

60706-079

UNDERWRITERS LABORATORIES INC.
333 PFINGSTEN ROAD · NORTHBROOK, ILLINOIS 60062

an independent, not-for-profit organization testing for public safety

CERTIFICATE OF INSPECTION FOR FIRE DEPARTMENT PUMPER

The scope of the UL Certification Program is limited to witnessing the conduct of the tests reported below and the checking of only those controls, instruments, and equipment necessary to accomplish this testing against the requirements of the Edition of the NFPA Standard No. 1901 in effect as of the date of this certificate unless otherwise noted.

RATED CAPACITY 750 gpm Date Jan. 23, 1991

This certifies that the pumper described below has performed acceptably and is provided with items of equipment as shown.

Manufacturer: Central States Fire App., Inc. Model No. CM750 Serial No. 127691
For: Auburn Fire Dept. Location Auburn, NE 68305
Chassis: Mfr. Chev. Model No. Kodiak Serial No. 9LT203457
* Engine: Mfr. Chrysler Model No. 318QYJ Serial No. K1120658
Transmission: Mfr. Fuller Model No. FS4005B Serial No. 86101806
Pump: Mfr. W.S. Darley Model No. TF-750 Serial No. 5817
Test Conditions: Barometric Pressure 29.84 in. Hg. (corrected to Sea Level); Temp. 15 F; Elevation 1451 ft.;
Suction Hose: Size 4 in.; Length 20 ft.; Pump elev. above water source 7 ft.;
Performance Certified to 2000 ft. Elevation above Sea Level.

TEST CONDITIONS	PUMP CONTROL POSITION	FLOW GPM	DISCHARGE PRESSURE PSIG	SUCTION ALLOWANCE PSIG (NEG.)	NET PUMP PRESSURE PSI	PUMP SPEED RPM	ENGINE SPEED RPM	GEAR RATIO ENGINE TO PUMP
Capacity 150-psi—2 Hrs.	Single Stage	750	144	6	150	2753	2753	1:1
Overload 165 psi—10 Min.	Single Stage	750	159	6	165	2884	2884	1:1
70% Capacity 200 psi—30 Min.	Single Stage	525	195	5	200	3027	3027	1:1
50% Capacity 250 psi—30 Min.	Single Stage	375	245	5	250	3285	3285	1:1

Automatic Pressure Control Test: Max. Increase 12 psi. Vacuum Test: 1 in. Hg. drop in 5 Min.
No Load Governor Speed 3600 rpm; Specified 4000 rpm. Pump Location Midship Crossmount
Water Tank Capacity 750 Gal; Tank Flow Test: 695 Gal. discharged at 250 gpm
4½ In. Suction gauge 30 In. Hg. to 600 psi 4½ In. Discharge gauges -30 to 600 psi

REMARKS

* Aux. Pumping Engine

Not Valid Unless Countersigned
Donald K. Olson
UNDERWRITERS LABORATORIES INC.

Signed: Robert H. Levine
ROBERT H. LEVINE
Vice President and Chief Engineer
Follow-Up Services

CERTIFICATE **NO.** 74689

* MANUFACTURER'S RECORD OF PUMPER CONSTRUCTION DETAILS *

DATE _01_/_23_/_91_

Owner___AUBURN FIRE DEPARTMENT_____Address__AUBURN, NE_____68305_____

Manufacturer_CENTRAL STATES FIRE AP._Model__750 CM____Ser.____127691_____

Engine Make___CHRYSLER_____Model__318OYJ_____Ser. #____K1120658_____

No.Cyl.__8___Bore___3.91_____Stroke___3.31_____Displ.___318_____Cubic Inch

Rated HP__175___at__4000__RPM No Load Governed RPM____3600_____

Compression Ratio____8.6_____ :1 Type_____GASOLINE_____

System Voltage_____12_____Volts Alternator Output___70____Amps

Battery:_____Dual_____Capacity each Battery___650 each_____CCA

Battery: Make and Model_____NAPA___The Legend_____

Fuel Tank Capacity:___50_____gallons Type of Feed__ELECTRIC_____

Cooling System: Heat Exchanger?___YES___Radiator Refill?_____NO_____

Transmission: Make_FULLER___Model_FS4005B__Ser.#_86101806____Type_MANUAL___

Drive to Pump through transmission?__NO_____Special Clutch___NO_____

Gear Ratio Engine to Pump___1____:1 Transmission gear ratio used_____

Pump Make__W.S. DARLEY_____Model__TF-750____Rated Capacity____750_____GPM

Serial #_____5817_____No. Stages____1_____Impeller Dia.__13"_____

Priming Device Type___Electric vaccum pump_____

Relief Valve?_____YES_____Pressure Governor?_____NO_____

Separate Booster Pump__NONE_____Make_____Model_____

Booster Tank Capacity____750_____gallons.

Chassis Make___CHEVROLET_____Model_KODIAK___Ser. #_1GBL7H1P9LT203457_____

GAWR Front _____10,860_____lbs. Rear _____21,000____lbs

Tires: Front Size ___10.00__X__20__rated Capacity Total___10,860____lbs

Tires: Rear Size ___10.00__X__20__rated Capacity Total___21,200____lbs

Chassis Weight Distribution with water and equipment FRONT_____6,360____lbs

Chassis Weight Distribution with water and equipment REAR_____14,860____lbs

COMPANY____CENTRAL STATES FIRE APPARATUS, INC._____

ADDRESS____100 Main Street_____Lyons, South Dakota___57041_____

Signed by____Al Hansen_____Title___TEST ENGINEER____

W. S. DARLEY & COMPANY
2000 ANSON DRIVE
MELROSE PARK, ILLINOIS

Test of pump for city of Auburn, NE. Date December 11, 199

Serial No. _____ Type of Pump Single Stage Centrifugal Model TF750

Pump No. 5817 Engine Make & Model 318 Chrysler

Certified Governed RPM _____ Brake Horsepower _____ at RPM _____

Transmission Gear _____ Pump Gear Ratio _____ Impeller Diameter 13"

Test Pressures in: Parallel _____ Series _____

Test Conditions:

ENGINE RPM	PUMP RPM	BRAKE HP	NOZZLE DIA. IN.	NOZZLE PSI	FLOW GPM	VACUUM IN. HG.	DISCH PSI	NET PUMP PRESS-PSI
2728		103.8	1-1/4" 1-1/4"	66 66	750	17.4"	142	150
3006		103.5	1-1/2"	62	525	12.7"	194	200
3245		106.2	1-1/4"	66	375	11"	245	250
2870		116.3	1-1/4" 1-1/4"	66 66	750	17,4"	157	165

This is to certify that a sufficient test has been made on Pump No. 5817. We guarantee that the foregoing results will be obtained with a lift of up to 10 ft. at an elevation not exceeding 2000 ft. above sea level at a water temp. 60°F., atmospheric pressure 29.92 in. Hg. corrected to sea level, and maximum friction and entrance loss through 20 ft. of suction hose and strainer (at end of hose) 9.8 in. Hg. Pump has been tested at a hydrostatic pressure of 500 psig for 10 minutes. Pump will conform to NFPA No. 1901 3-2.2.5.4 pressure drop requirements with discharge valves supplied by W.S. Darley & Co. mounted on the pump.

Duration of Test: (at Draft) 4 hours Tested at: Chippewa Falls, Wisconsin

Suction Hose: 20' of 4" Tested By: Anthony Monpas

Static Suction Lift: 10' Ft. Witnessed By: Lee Kelly

Discharge Hose: 2-50' lengths 2-1/2" Certified By: [signature]