

# WATER SYSTEM

This is a gravity feed water system designed with a minimum of components in order to keep service and operation extremely simple. The system consists of three water storage tanks, two solenoid valves, and a centrifugal applicator.

Water drains from the tank above the pilot roll and the tank on the right rear of the drive roll frame to the tank beneath the operator's seat. At the bottom of the seat tank are two solenoid valves, each with a different orifice size. When opened, these valves allow water to flow through a hose onto a spinning disc. The disc breaks up the water droplets and slings a fine mist onto both the drive and pilot rolls.

## SPRAY PATTERN

The spray pattern may be adjusted by loosening the four water system mount bracket fasteners (Fig. 24) and rotating the entire assembly (Fig. 25). The spray pattern should overlap each end of the drive roll by approximately three inches.

## VALVES

Should either stainless steel solenoid valve fail to operate, it must be removed and replaced. Remove the hose (Fig. 26) and orifice fitting (Fig. 27) from the valve. Disconnect the hot lead at the connector (Fig. 28) and the ground wire from the water system mount bolt. Unscrew the valve from the water tank. Replace new valve in reverse procedure.

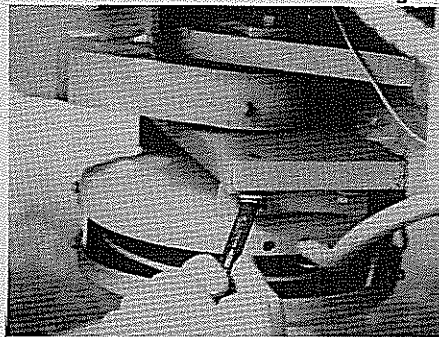
## ORIFICE

Either orifice may be cleaned by removing the water system hose and unscrewing the orifice (Fig. 27) from the valve body. Employ air pressure or a small piece of wire to clean the orifice. (See Fig. 29.) Hold the orifice up to the light to check for additional obstructions prior to replacing it in the valve body. Reverse procedure for reassembly.

## MOTOR

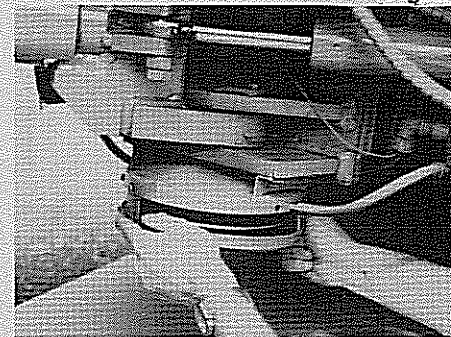
Should the disc motor fail to function, it should be removed and replaced. Remove the motor hot lead at the connector (Fig. 30) and the ground wire from the water system mount bolt. Remove the two solenoid valve water hoses by loosening the hose clamp and pulling the hose off the tubing. (See Fig. 31.) Remove the four water system mount bolts (Fig. 32).

Fig. 24



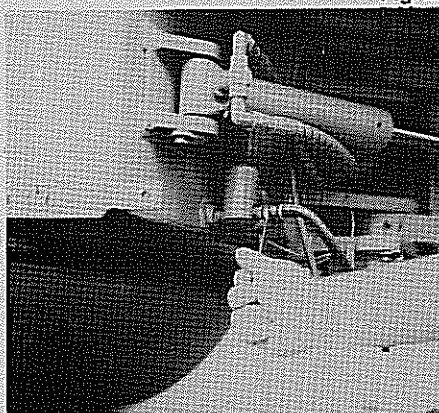
LOOSEN MOUNT BRACKETS

Fig. 25



ROTATE ENTIRE ASSEMBLY

Fig. 26



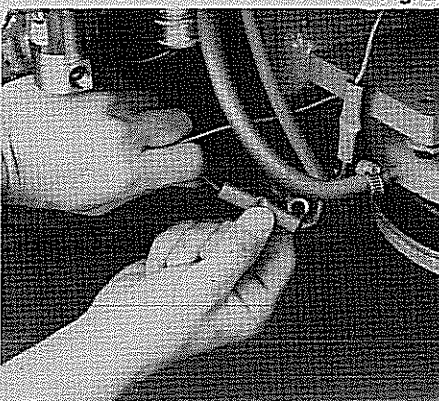
REMOVE HOSE

Fig. 27



REMOVE ORIFICE FITTING

Fig. 28



DISCONNECT HOT LEAD

Fig. 29



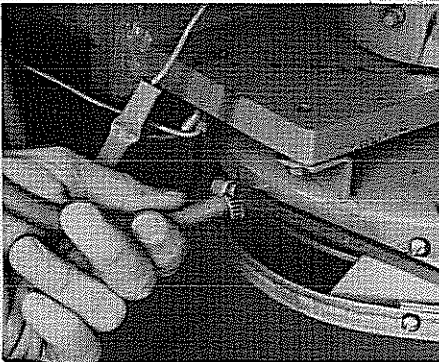
CLEAN ORIFICE

Fig. 30



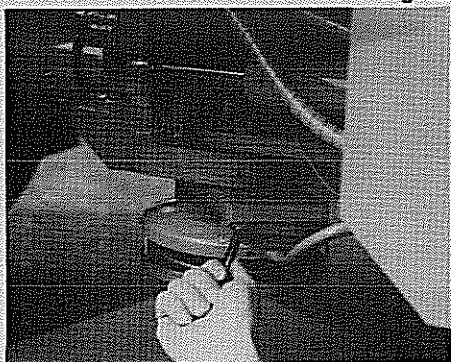
REMOVE MOTOR HOT LEAD

Fig. 31



REMOVE SOLENOID VALVE HOSES

Fig. 32



REMOVE MOUNT BOLTS

# WATER SYSTEM (Cont.)

Remove the bottom tray by removing the top four shield mount screws (Fig. 33). Remove all six set screws (two per hole) and the water disc may be pulled from the motor shaft. (See Fig. 34.) Remove the four motor mount screws and pull the motor lead wire through the top cover (Fig. 35). Reverse procedure for assembly.

**WATER TANK**

The water system is a gravity feed type and relatively few problems should arise with its use. There are no strainers or filters in the system to become clogged. Small contaminants will pass through the system with ease. Larger debris that may enter the tanks may be flushed from the bottom tank or from the pilot roll tank.

Using the water plug wrench, located under the left side of the operator's seat (Fig. 5, pg. 2), remove the two drain plugs in the bottom water tank (Figs. 36 and 37). Place a hose in the side drain and flush the debris from the tank through the bottom drain.

To flush the front water tank, remove both the fill plug (Fig. 19, pg. 5) and the drain plug (Fig. 38). Place the hose in the top port and flush debris from the tank through the bottom port (Fig. 20, pg. 5).

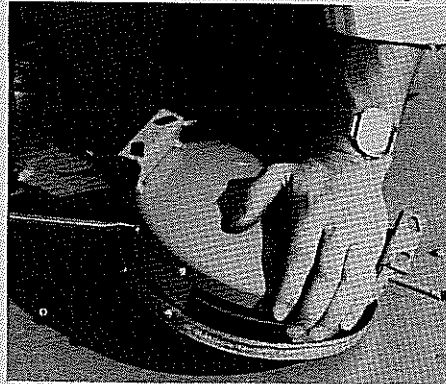
**PILOT ROLL BALLAST**

If additional tractability and compaction is desired from the pilot roll, weight may be added by ballasting the pilot roll with water. Align the pilot roll drain and fill plug behind the hole in the pilot roll frame as depicted in Fig. 38-A. Remove the plug, employing the water plug wrench, add the desired amount of water and replace the plug. Insure the roll is drained when the ambient temperatures approach 32°F. To drain the pilot roll, rotate the fill-drain plug to a position closest to the ground.

**DRAIN SPRAY APPLICATOR PUMP**

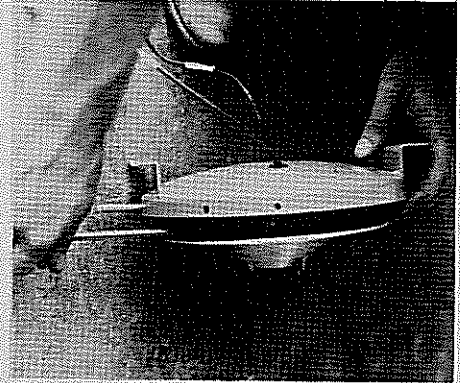
Drain applicator motor sump when ambient temperatures approach 32°F. To drain the sump tray remove the plug in the bottom of the tray as depicted in Fig. 38-B. Should the water in the sump tray freeze, this will prevent the applicator disc from spinning. Under these conditions any attempt to operate the disc motor will result in irreparable damage to the motor.

Fig. 33



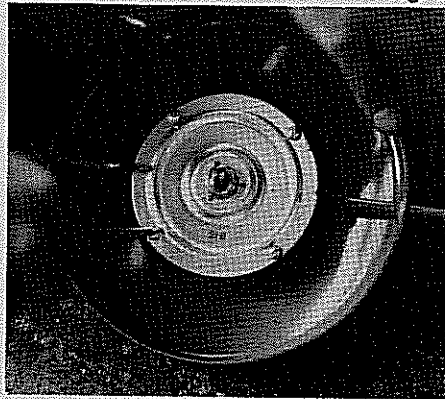
REMOVE SHIELD MOUNT SCREWS

Fig. 34



REMOVE 6 SET SCREWS

Fig. 35



REMOVE 4 MOTOR MOUNT SCREWS

Fig. 36



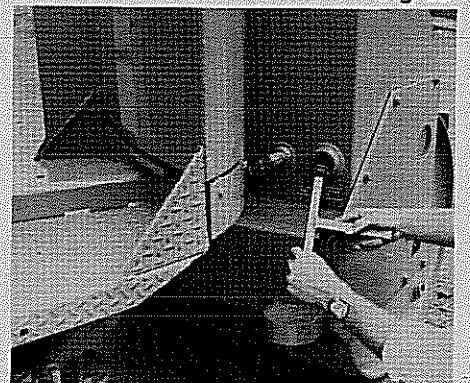
REMOVE DRAIN PLUGS FROM BOTTOM WATER TANK

Fig. 37



REMOVE DRAIN PLUGS FROM BOTTOM WATER TANK

Fig. 38



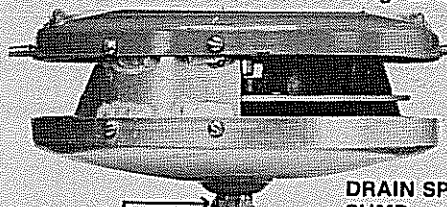
REMOVE PILOT ROLL WATER TANK DRAIN PLUG

Fig. 38-A



PILOT ROLL FILL & DRAIN PORT FOR BALLAST

Fig. 38-B



REMOVE THIS DRAIN PLUG

DRAIN SPRAY APPLICATOR SUMP