altronic®
"NOTES"
APPLICATION & SERVICE

NUMBER: 16 DATE: July 1, 1996 x APPLICATION x SERVICE

SUBJECT: Altronic III/V Updates & Improvements

There are many updates & improvements to the Altronic III/V that do not get updated in the literature until the appropriate manual gets revised. In the interim the following notes will help to clarify these changes.

ALTRONIC III

Oil seal life was improved in September 1994 (S/N 54853) by hard-chroming the shaft in the seal area. This greatly improved the hardness of the shaft and also reduced the friction co-efficient. These improvements should greatly improve the shaft & seal life.

2. Replacement flanges for the Altronic III have the oil seal in a different location than the original flange so that the replacement seal will rest on an unworn shaft area. The original flanges are part numbers 360 403-x, while the replacement flanges are part numbers 360 465-x. The (-J) flange was originally a 360 459 and its replacement is a 360 466. These part numbers and prices are reflected in the July 1, 1996 price list.

3. On October 1, 1995 the zener nut lock washer was changed to a new style sealing washer. This new style washer should be used in place of the old split washer when servicing the unit. All circuit boards now receive this washer as part of the circuit board hardware kit. This new washer has a rubber seal that will help to stop water intrusion into the Altronic III. The part number of this washer is 902 645 and is shown in the current Altronic III Service Manual.

4. Altronic III units sold to Caterpillar now have a re-designed vent to reduce water intrusion through the vent during outdoor use or power washing. The part number of this vent is 510 550A and can be used to directly replace the original style vent (510 550). New production units for aftermarket applications will also be supplied with this new vent by the end of this year. Units suffering from power washing would benefit by having the original vent replaced with the new style.

5. Waukesha has been using the -GN and -GVN flanges for some time now. These units utilize a 310 418-2 flange that has no seal. The seal area has been counter bored to allow the inset of the 510 602 coupling with 902 475 spring pin (assembly no. 560 006).

6. The Altronic III circuit boards now show a voltage test in section 3.1 of FORM AIII SM 12-95. This is the total zener voltage from zener diodes on the circuit board plus the value of the conventional zener diode that is mounted in the back cover. These part number changes were noted in bulletin 32D and reflect why the zener diodes have changed back to the typical 301 233-3 with a 150 volt rating. Do not use the wrong diode as a replacement since this will increase the total regulated voltage beyond design specifications!

ALTRONIC V

1 In an effort to eliminate water infiltration around the circuit board mounting screw, washer 902 602 has been changed from aluminum to a nylon type. The part number remains the same.

2. A "C" suffix has been added to the -GV flange for selected Cummins engines. This is a standard flange, the "C" suffix only means that the vent hole location has changed to reduce water infiltration.