INTER-OFFICE LETTER

TO

17 & 19 SERIES SERVICE ENGINEERS (A)

REGIONAL SERVICE MANAGERS (A)

MR. DAVID BUTTERMORE - COURT ST. (B)
MR. WILLIAM GROTH - TR-20 (B)
MR. W. H. GUNTHER - TR-1 (B)
MR. ALAN JOHNSON - TR-1 (B)
MR. MERRILL LEWIS - TR-1 (B)
MR. TED LIBERA - TR-1 (B)
MR. CHARLES MILLER - TR-1 (B)
MR. M. SCICCHITANO - TR-1 (B)
MR. O. P. TEN EYCK - TR-1 (B)

FROM RICHARD GROSS DATE 10-2-73

OFFICE MSD SERVICE ENGINEERING-SYRACUSE

SUBJECT 19EA IMPELLER DISPLACEMENT SWITCH WIRING

FIELD EXPERIENCE REPORT 73-6

A recent compressor redesign has relocated the impeller displacement switch on 19EA(4&5) compressors to an approximate 12:30 position. Due to the length of wires, the slack formed allows wires to possibly be drawn into the impeller causing an open circuit and resulting in compressor shutdown (see Fig. I).

Machines affected are those with compressor S/N 100,800 (approximate; corresponding to approximate machine S/N 18,000) to compressor S/N 101,182. Compressors above this break-off point have been corrected, as described below, with the exception of compressor S/N 101,186, which will not be changed.

If a machine shuts down on apparent bearing overtemperature and troubleshooting indicates that the impeller displacement switch is at fault or the machine is opened for any other reason, proceed as follows:

1. Inspect wires to see if they are frayed or broken. Replace, if necessary.

2. Install the three (3) tube clamps as shown (see Fig. 2). Position so that wires will be taut but not strained.

3. Install copper tubing with ends flared (to prevent cutting of wire insulation).

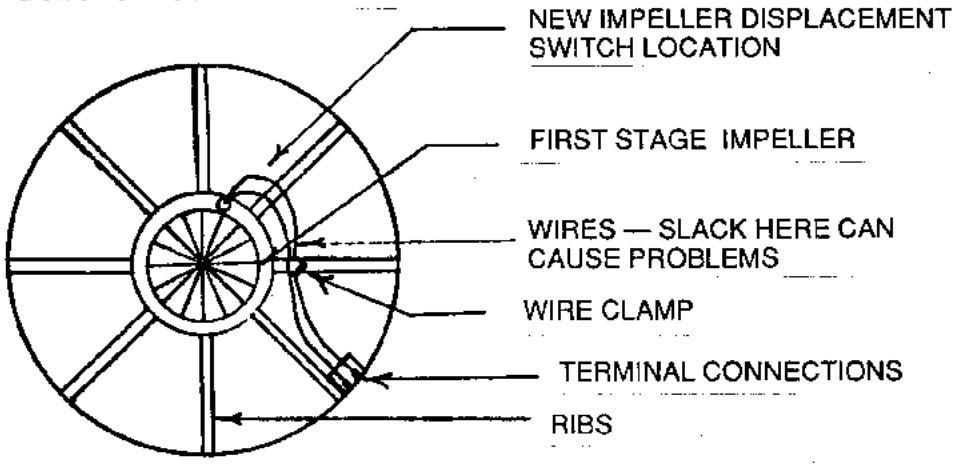
4. Fish wires through tubing and connect.

Richard L. Gross

RG/aa

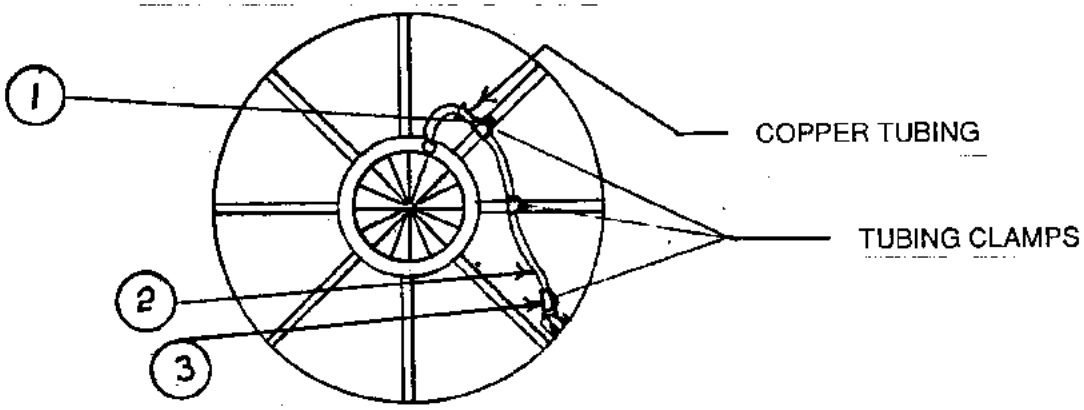
FILE INSTRUCTIONS: COMPRESSOR - DRIVER - GEARS

Fig. 1
Before Modification



19EA Compressor – Intake Volute and Guide Vanes Removed

Fig. 2
After Modification



ITEM	REQ	DESCRIPTION
1	3	10-24 x 3/8
2	1	1/4" O.D. x 18" COPPER
3	3	1/4" TUBE CLAMP