



Interoffice Letter

<p>To: <u>17 & 19 SERIES SERVICE ENGINEERS</u></p> <p><u>TECHNICAL SERVICE MANAGERS</u></p> <p><u>ZONE SERVICE MANAGERS</u></p> <p>MR. JOHN BRILBECK A & R</p> <p>MR. DAVE BUTTERMORE COLLEGE PLACE</p> <p>MR. ED FOWLER TR-1</p> <p>MR. WILLIAM GROTH TR-20</p> <p>MR. W. H. GUNTHER TR-1</p> <p>MR. LYLE HORNING TR-20</p>	<p>(A)</p> <p>(A)</p> <p>(A)</p> <p>(B)</p> <p>(B)</p> <p>(B)</p> <p>(B) (5)</p> <p>(B)</p> <p>(B) (3)</p>	<p>Date: APRIL 26, 1976</p> <p>From: MERRILL A. LEWIS</p> <p>Office: MSD SERVICE ENGINEERING - SYRACUSE</p> <p>Subject: <u>19 SERIES MOTOR REPLACEMENT GUIDELINES:</u> <u>PARTS AND PLANNING</u></p> <p>FIELD EXPERIENCE REPORT 76-4</p> <p>MR. HENRY JOHNSON TR-1 (B)</p> <p>MR. ROBERT KUHR TR-20 (B) (3)</p> <p>MR. C. D. MILLER TR-1 (B)</p> <p>MR. G. L. MOUNT TR-1 (B)</p> <p>MR. JOHN NOLAN TR-1 (B)</p> <p>MR. MARTY SCICCHITANO TR-1 (B)</p>
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1. This set of guidelines, organized by machine model, is intended to aid you (and your correspondent) when placing orders for replacement motor parts and when planning the replacement work involved.

To further insure that correct parts are ordered, your correspondent should be supplied with machine nameplate information such as model and serial number, and if possible, motor part number, size, vendor, and vendor serial number.

2. 19C, 19CB: Alternate-frame-size stators for most voltages are stock items. For example, if the existing stator is size "G", the replacement may be an "H", the next highest frame size. The only physical difference between it and the original is an increase in core length, requiring field relocation of the stator retaining clip in the end bell end of the stator shell. Electrically, the only difference will be a slight increase in starting current. From a power consumption point of view, this increase will be balanced out by the fact that the motor will more quickly come up to speed. Full load amps and other parameters will remain the same.

With few exceptions, all 19C motors are manufactured by Ideal Electric. In the case of an exception, contact your correspondent for further guidance. 19C rotors are furnished balanced and crated.

3. 19D, 19DA, and early 19DG (machine s/n 15,553 and below): Alternate-frame-size 19DA stators for most voltages are stock items. For example, a "C9" size may be furnished to replace an existing "C8."

FILING INSTRUCTIONS: CENTRIFUGAL FIELD EXPERIENCE REPORT MANUAL
TAB: COMPRESSOR-DRIVER-GEARS

There are no physical differences between these frame sizes which affect interchangeability. The electrical differences are the same as for the 19C as outlined in 2. above.

Replacement 19DA stators are manufactured by Ideal Electric only. If the existing motor was manufactured by G.E. or others, the rotor must be replaced in addition to the stator.

Special kits may be required when replacing a 19D or 19DA stator; your correspondent will advise you of the necessary items.

19DA stators are furnished in shells with motor terminals installed.

19DA rotors are furnished balanced and crated.

4. 19DG (machine s/n 15,554 and above): Selected sizes and voltages of 19DG stators are stock items. For example, a "C6 (or CE)" size may be furnished to replace an existing "C5 (or CD)." There are no physical differences between these frame sizes which affect interchangeability. The electrical differences are the same as for the 19C as outlined in 2. above.

Replacement 19DG stators are manufactured by Ideal Electric and Electro-dynamics only. If the existing motor was manufactured by G.E., or if for any other reason vendors are switched, the rotor must be replaced in addition to the stator.

Other than stator shell insulation, no special kits are required when replacing a 19DG stator.

19DG stators are furnished in shells with motor terminals installed.

19DG rotors are furnished balanced and crated.

5. 19EA: Alternate-frame-size stators for most voltages are stock items. For example, a "D4 (DD)" size may be furnished to replace an existing "D3 (DC)." There are no physical differences between frame sizes which affect interchangeability (except when a rotor change is required as outlined below). The electrical differences are the same as for the 19C as outlined in 2. above.

Replacement 19EA stators are of form wound construction and are manufactured by Ideal Electric only.

If the existing motor is of random wound construction (machine s/n 24,499 and below, 200V to 600V) the rotor must be replaced in addition to the stator except when existing motor was manufactured by Ideal Electric and is size "D7 (DK)", "D8 (DH)", "D9 (DJ)", or "D10 (DK)".

When a form wound stator is used to replace a random wound stator on sizes "D6 (DF)" and below, or on sizes "D11 (DL)" and above, the replacement motor shell will be approximately four to six inches longer than the original. The rear bearing oil supply and drain lines, the motor cooling refrigerant supply line, and the motor temperature sensor wiring conduit must be field modified to suit. The power winding conduit to the motor terminal box may also require field adaptation as will the stator wobble foot.

19EA stators are furnished in shells, with motor terminals installed, and are shipped horizontally.

19EA rotors are furnished balanced, with demistor spokes installed, and crated.

6. 19FA: Contact your correspondent for guidance if replacement is required.

Regards,

A handwritten signature in black ink, appearing to be 'M. L. H.', written in a cursive style.

MAL/kas