The LINDE Electronic Governor Type EG-106 is a modified basic governor without integral controls. The information in Form 9161 applies to this governor with the following exceptions:

The items listed below (appearing in Figure 3 in Form 9161) are not included as part of the governor assembly:

- Speed Indicator
- Speed Indicator Resistor R-107
- Speed Control Potentiometer P-101
- Motor Reversing Switch SW-102

These controls (or other components which perform the same control functions) will be mounted in remote positions, and connected to the governor terminal strip through insulated leads. (In some cases, one or more of them will be omitted entirely.) They can be purchased from LINDE as required.

The governor is not furnished with the cabinet shown in Form 9161. When purchased as a part of standard LINDE apparatus, the governor is installed in a master control assembly. This assembly includes a governor front panel similar to that shown in Figure 1. If the governor is to be used with non-standard apparatus, a special front panel may be fabricated.

The following pages contain a replacement parts list, pictures, and a circuit diagram for this governor.
REPLACEMENT PARTS
FOR "LINDE" ELECTRONIC GOVERNOR TYPE EG-106
PART NO. 38V31
HOW TO ORDER REPLACEMENT PARTS

1. Replacement parts can be identified on the keyed illustrations which follow this parts list. Each part bears a name and a number. The majority of parts also show in parentheses the symbol number (R-101, C-103) which identifies the part on the circuit diagram. When ordering parts from LINDE, order by part number and part name as given on the illustrations. DO NOT ORDER BY PART NUMBER ALONE, OR BY SYMBOL NUMBER.

2. Be sure that your order specifies the quantity of each part needed.

3. Always state the series or serial number of the governor on which the part is to be used. When available, list the governor symbol also. (This information appears on the governor nameplate.)

4. Indicate any special shipping instructions.

5. When ordering parts from LINDE, use the LINDE district office nearest you.

IMPORTANT: Almost all parts used in this governor are standard commercial parts. In an emergency you can order them from LINDE. However, it will save you time and money to purchase these parts from a local electronics outlet, or directly from the manufacturer. (Full descriptions of the parts are given in the list below.) When doing so, use the manufacturer's part number or designations. The LINDE part number is for use only when ordering from LINDE.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>04N32</td>
<td></td>
<td>Cabinet</td>
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<tr>
<td>04N33</td>
<td></td>
<td>Chassis</td>
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<tr>
<td>04N34</td>
<td></td>
<td>Terminal Strip Mounting Plate</td>
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<tr>
<td>04N46</td>
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<td>Governor Guard</td>
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<tr>
<td>80W85</td>
<td>R106</td>
<td>Resistor--Ohmite 25 Watt, 25 Ohm Resistor No. 0365</td>
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<tr>
<td>80W70</td>
<td></td>
<td>Fuse Mount Bussman Mfg. Co. &quot;Buss&quot; H.K.P. (2 used)</td>
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<td>80W60</td>
<td></td>
<td>Bottom Plate--Bud Radio, Inc. No. BP-667</td>
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<tr>
<td>90W10</td>
<td>PL</td>
<td>Pilot Light--Hart Mfg. Co. Catalog T1 (Clear Crystal)</td>
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<tr>
<td>92W23</td>
<td>SW101</td>
<td>Switch--Hart Mfg. Co. No. 160</td>
</tr>
<tr>
<td>92W24</td>
<td>TR101</td>
<td>Transformer--Standard Transformer Co. No. P-3624</td>
</tr>
<tr>
<td>92W27</td>
<td>C-103, C-104, C-105</td>
<td>Condenser--Mallory No. FP-357</td>
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<tr>
<td>92W28</td>
<td>TR102</td>
<td>Transformer--United Transformer Co. No. FT-2</td>
</tr>
<tr>
<td>92W29</td>
<td></td>
<td>Socket--American Phenolic Corp. No. 78RS8 (2 used)</td>
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<td>92W30</td>
<td></td>
<td>Socket--Johnson No. 123-209B</td>
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<td>92W31</td>
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<td>Tube Clip--National Radio Products Type 12</td>
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<td>SR101</td>
<td>Rectifier--Federal Selenium Rectifier No. 439D4200 500</td>
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<td>Battery EVEREADY 4-1/2 V No. 781</td>
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<td>92W34</td>
<td>R-101</td>
<td>Resistor--International Resistance Co. BTA-56,000 Ohms</td>
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<td>92W35</td>
<td>R-104</td>
<td>Resistor--International Resistance Co. BTA-510,000 Ohms</td>
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<td>92W36</td>
<td>R-103</td>
<td>Resistor--International Resistance Co. BTA-1,800 Ohms</td>
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<td>92W37</td>
<td>R-105</td>
<td>Resistor--International Resistance Co. BT2-1,000 Ohms</td>
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<td>92W38</td>
<td>R-102</td>
<td>Resistor--Ohmite &quot;Brown Devil&quot;--10 Watt, 1 Ohm</td>
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<td>92W39</td>
<td>C-102</td>
<td>Condenser--Dubilier Pte 6DS--.005 MFD 600 WVDC</td>
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<td>92W40</td>
<td>C-101</td>
<td>Condenser--Dubilier Pte 65S--.05 MFD 400 WVDC</td>
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<td>Terminal Plate--Miller Mfg. Co. No. 450</td>
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<td>92W42</td>
<td>TD-101</td>
<td>Time Delay Relay--Amperite Co. No. 2N030</td>
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<td>92W43</td>
<td>T-102</td>
<td>Voltage Regulator Tube--RCA No. 3C3VR105</td>
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<tr>
<td>92W44</td>
<td></td>
<td>Battery Clamp, Weston Part No. 72901</td>
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<tr>
<td>92W45</td>
<td>F-101, F-102</td>
<td>Fuse--2 Amp. No. 3 AG &quot;Slo-Blo&quot; Littlefuse Co. Cat. No. 313002</td>
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<td>92W49</td>
<td>T-101</td>
<td>Thyatron Tube--No. EL C3J</td>
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<td>92W47</td>
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<td>Terminal Strip--H.B. Jones Co. No. 12-140</td>
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<td>92W50</td>
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<td>Grommet--Atlantic India Rubber Works Cat. No. 1070</td>
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<td>93W31</td>
<td>Condenser Socket--P.R. Mallory &amp; Co., Plug-In Socket for</td>
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<tr>
<td></td>
<td></td>
<td>FP Condenser Cat. No. PS4</td>
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</table>

All circuit wiring is No. 16 Awg. Stranded Type SRH except: Thyatron Tube
Filament Circuit is Type TW #12 Stranded Building Code Wire.

NOTE: Front Panel is not a part of governor type EG-106

The term "Linde" is a registered trade-mark of Union Carbide and Carbon Corporation.
Fig. 1 - Front View

- Switch 92W25 (SW-101)
- Pilot light 92W24 (PL-101)
- Fuse mount 90W10 (F-101, F-102)

Fig. 2 - Rear View

- VR tube 92W43 (T-102)
- Socket 92W29
- Tube clip 92W31
- Thyatron tube 92W46 (T-101)
- Socket 92W30
- Chassis 04N33
- Connector 88W70
- Bottom plate 92W23
- Battery 92W33 (bias battery)
- Transformer 92W26 (TR-101)
- Time delay relay 92W42 (TD-101)
- Socket 92W29
- Rectifier 92W32 (SR-101)
- Condenser 92W27 (C-103, C-104, C-105)
- Resistor 89W60 (R-106)
- Socket 93W31
- Grommet 80W85
- Clamp 92W44
FIG. 3 - BOTTOM VIEW WITH BOTTOM PLATE REMOVED
CIRCUIT DIAGRAM FOR ELECTRONIC GOVERNOR TYPE EG-106 PART NO. 38V31

THE TYPE OF ELECTRONIC GOVERNOR PART NO. 38V31 INCLUDES THE COMPONENTS ENCLOSURE WITH THE DOTTED LINE ABOVE.
LINDE Supplies These Quality Products to the Nation’s Industries

INDUSTRIAL GASES
Linde Oxygen, Nitrogen, Argon, Neon, Helium, Krypton, Xenon, Hydrogen
Prest-O-Lite Acetylene

CALCIUM CARBIDE
Union Carbide
Carbic Processed Carbide

OXY-ACETYLENE EQUIPMENT
Oxweld Apparatus for Cutting, Joining, Treating, and Forming Metals Acetylene Generators Manifolds, Regulators and Valves Welding Rods and Supplies
Prest-O-Weld Welding and Cutting Apparatus
Purox Welding and Cutting Apparatus
Prest-O-Lite Air-Acetylene Apparatus and Small Tanks
Carbic Acetylene Flood Lights Acetylene Generators

ELECTRIC WELDING EQUIPMENT
Unionmelt Automatic Welding Apparatus and Supplies
Heliaarc Welding Torches
Linde Sigma Welding Equipment

SPECIAL EQUIPMENT
Linde Jet-Piercing Equipment Plate-Edge Preparation Equipment Polyethylene Powder and Flame-Spraying Equipment Steel-Conditioning Machines Sub-Zero Cold Treatment Equipment

Oxweld Oxy-Acetylene Cutting Machines Pressure-Welding Machines

OXYGEN THERAPY SUPPLIES
Linde Oxygen U.S.P. Oxygen Therapy Regulators Oxygen Therapy Manifolds and Valves

SYNTHETIC CRYSTALS
Linde Synthetic Sapphire, Ruby, Spinel, and Titania Synthetic Calcium- and Cadmium Tungstates Fine Alumina Abrasives

ORGANOSILICONES
Linde Silane Monomers Polysiloxane Polymers and Resins


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A DIVISION OF UNION CARBIDE AND CARBON CORPORATION

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