Figure 2C14: D L C Long Line System

Phone jack for sound powered phone use.

Junction Terminal

Long line = total of L cables
Long line ≤ 4000 feet

(Digital Remote Terminal (DRT))

K ≤ 15 ft.

K & J' Cable: 51 Conductor ribbon cable (20 used)
K Cable: 51 Conductor cable (30 used)
L Cable: 15 twisted pair in shielded cable (all used)

(Up to eight full DRT-Sticks)
NOMENCLATURE

- **MPY Multiply**
  
  **Function:** Multiply 2 single word variables and store result in double precision format.
  
  **Definition:** \((Z_A) + \left( (Z_A + 1) \times (Z_B) \right) \rightarrow \frac{Z_A}{Z_B} = Z_C + 1\)
  
  **Indicators affected:** V set if overflow occurs. False overflow will occur if \((Z_B) = -2^{15}\) and \((Z_A) \& (Z_A + 1)\) have opposite signs.

- **DVD Divide**
  
  **Function:** \((Z_A, Z_A + 1, Z_B) \rightarrow Z_C, \text{ remainder} \frac{1}{Z_C} = Z_B, \text{ Quotient}\)
  
  The sign of the remainder is the same as the sign of the dividend.
  
  **Indicators affected:** V set if overflow occurs, i.e. \(|\text{Quotient}| \leq 2^{15}\)

- **NRM Normalize**
  
  **Function:** Provides for normalizing Fixed point positive double precision integers and determining scale factor.
  
  **Definition:** \((Z_A, Z_A + 1)\) is shifted left until a "1" is shifted into bit E of \((Z_A)\). The result is stored in \((Z_C, Z_C + 1)\) and the number of shifts stored in \((Z_B)\).
  
  Negative numbers are normalized by shifting the leading 0's into E.
  
  **Indicators affected:** None
DEMAND (Pushbutton and light)

Pushbutton - Sets a Demand flip-flop which may be interrogated by the software.

Light - Indicates status of Demand flip-flop which is reset by the software (also can be set by the software).

STALL (light)

Light - Indicates that a DLC stall condition has been detected.

SR = Spring Return

NOTE: On optional form for enclosure door mounting, MASTER key switch and INITIALIZE pushbutton mounted at right of above layout.

Figure 6.1 : Hardware Console Layout
T6 TAKE KEY SW TO STOP, PUSH INITIALIZE, GO TO RUN, DID "RUN" LIGHT GO ON ☐ Y/N.
IF Y YOU'RE DONE, SAVE SHEET.

T7 CUT POWER ON DL, RE-APPLY. DID "RUN" GO ON ☐ Y/N. IF Y YOU'RE DONE, SAVE
SHEET. IF NO BEGIN TROUBLESHOOTING.
**Procedure for Latch ASM Installation**

1. **Prepare Electrical Interlock Bracket from Contactor.**
2. **Install Pt. 2 with Hardware Pt. 24, 22.**
3. **Install Shims Pt. 3 as Required Per Note 1.**
4. **Install Block Pt. 4 with Hardware Pt. 21, 22.**
5. **Install Pt. 11, Pt. 6, 8, 9, 10 and Pt. 5 as Shown in Section "AA" into Hole in Block in Order Shown.**
6. **Assemble Lock Pin Pts. 13, 14, 15, 16, 17 to Bracket Pt. 14.**
7. **Install Lock Pin Assembly and Insulation Pt. 7 to Block Pt. 4 with Hardware Pts. 21, 22.**
8. **Install Leaf Spring Pt. 18 on Operator.**
9. **Assemble Lock Pin Assembly and Insulation Pts. 7 to Block Pt. 4, with Hardware Pts. 21, 22.**
10. **Install Leaf Spring Pt. 18 on Operator.**
11. **Remount Electrical Interlock Operator on Contactor.**
12. **Remount Electrical Interlock on Bottom of Block Pt. 4, Which is Predrilled for Electrical Interlock Mounting Bracket.**
13. **Adjust Leaf Spring Pt. 18 on Operator.**
14. **Remount Electrical Interlock with Armature Latched Closed to Obtain Interlock Wipe of .047 to .078 and Gap of .078 to .109.**

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**List of Parts:**

- **LATCH ASM**
- **NAMEPLATE**
- **HARDWARE**
- **SHIMS**
- **BLOCK**
- **SPLINES**
- **INSULATION**
- **PAD**
- **WASHERS**
- **SCREWS**

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**Section "AA"**

**Full Size Template for Forming and Chute Clip**

**NOTE:**

1. Bend latch to clear block as shown. Bend only at point shown so that the latching function will not be impaired.
2. Bend latch to achieve a gap of .53 ± .03 when latch contacts kiss.
3. Bend arc chute clip per Note 4.
4. Bend arc chute clip as above.
5. Adjust screw P28 with armature latched closed to obtain interlock wipe of .047 to .078 and gap of .078 to .109.

**GEK-83759**
POWER CONVERSION NETWORK (IN) TO (NP)
DOTTED LINES

A: C4 THRU C - 900VAC.
.25MFD

NT

FUSIBLES

SERIES FIELD

FUSIBLES

GENERAL ELECTRIC
DRIVE SYSTEMS
DEPARTMENT
SALEM, VA, U.S.A.

ELEMENTARY DIAGRAM
OIL WELL DRILLING
POWER BRIDGE

MADE BY

F. HARTLEY

REV. 4
PRINTS TO
6/114
ENGINEER

ISSUED
MAY 2, 1985

CONT. ON SHEET 64, SHEET NO. 61
Removal and Replacement of PCM Fans

Refer to Figure 3 during the following procedures.

REMOVAL:

1. Remove all power from the panel. Open the PCM door and remove three screws at the bottom front edge. Unplug the wire snap-lock connectors.
Removal and Replacement of PCM Fans

Refer to Figure 3 during the following procedures.

REMOVAL:

1. Remove all power from the panel. Open the PCM door and remove three screws at the bottom front edge. Unplug the wire snap-lock connectors.
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Refer to Figure 3 during the following procedures.

REMOVAL:

1. Remove all power from the panel. Open the PCM door and remove three screws at the bottom front edge. Unplug the wire snap-lock connectors.
2. Reassemble in reverse order of the removal procedure described above. Torque stack assembly and fuse mounting hardware to 12.5 foot-pounds. Glastic baffles must be replaced exactly as they were to prevent possible overheating of the cells.

Figure 1 - PCM CELL STACK ASSEMBLY READY TO BE REMOVED
2. Reassemble in reverse order of the removal procedure described above. Torque stack assembly and fuse mounting hardware to 12.5 foot-pounds. Glastic baffles must be replaced exactly as they were to prevent possible overheating of the cells.

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