



GROVE[®]
CRANE

A GROVE WORLDWIDE COMPANY

**PARTS AND
INSTALLATION
MANUAL**

**CM20
LMI SYSTEM**

9-333-102682

TABLE OF CONTENTS

CM20 - LMI SYSTEM

SUPERSTRUCTURE INSTALLATION

BILL OF MATERIAL
PRESSURE TRANSDUCER CONNECTION
CENTRAL UNIT DS350 WIRING SCHEMATIC
CPU ASSEMBLY
BILL OF MATERIAL

LMI MOUNTING HARDWARE

BILL OF MATERIAL

A2B SYSTEM INSTALLATION

BILL OF MATERIAL
MAIN BOOM NOSE WIRING SCHEMATIC
CABLE REEL ASSEMBLY
BILL OF MATERIAL
JUNCTION BOX ASSEMBLY
BILL OF MATERIAL
JUNCTION BOX ASSEMBLY
BILL OF MATERIAL
A2B RETAINER FLAG ASSEMBLY
BILL OF MATERIAL

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LMI CABIN INSTALLATION

BILL OF MATERIAL
CONSOLE ASSEMBLY
BILL OF MATERIAL
CONSOLE CONNECTION ELECTRICAL WIRING

LIGHT BAR INSTALLATION

BILL OF MATERIAL

INCLINATION SENSOR INSTALLATION

BILL OF MATERIAL
INCLINATION SENSOR WIRING

3RD WRAP INSTALLATION - MAIN HOIST

BILL OF MATERIAL
CONTROL UNIT ASSEMBLY - MWD 100
BILL OF MATERIAL

TABLE OF CONTENTS

CM20 - LMI SYSTEM

3RD WRAP LIMIT INSTALLATION - AUX. HOIST

BILL OF MATERIAL

3RD WRAP DEVICE (SPECIAL) ASSEMBLY

BILL OF MATERIAL

CRAWLER EXTENSION INSTALLATION

BILL OF MATERIAL

PROXIMITY SWITCH WIRING (TRACKS EXTENDED)

AUXILIARY BOOM NOSE INSTALLATION

BILL OF MATERIAL

WIRING SCHEMATIC

JUNCTION BOX ASSEMBLY

BILL OF MATERIAL

FIXED SWINGAWAY EXTENSION INSTALLATION

BILL OF MATERIAL

WIRING SCHEMATIC

JUNCTION BOX ASSEMBLY

BILL OF MATERIAL

TELE-OFFSET SWINGAWAY EXTENSION INSTALLATION

BILL OF MATERIAL

WIRING SCHEMATIC

JUNCTION BOX ASSEMBLY

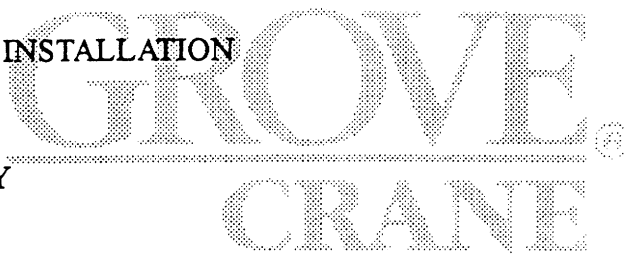
BILL OF MATERIAL

DECAL INSTALLATION

ENGLISH

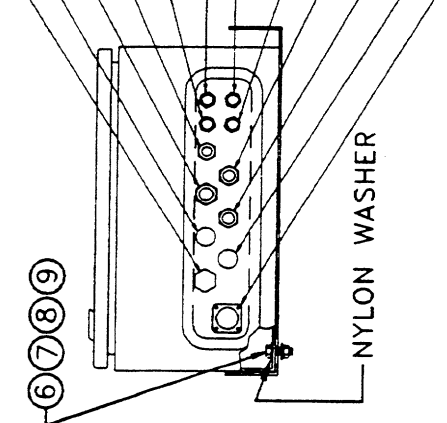
SPANISH

FRENCH



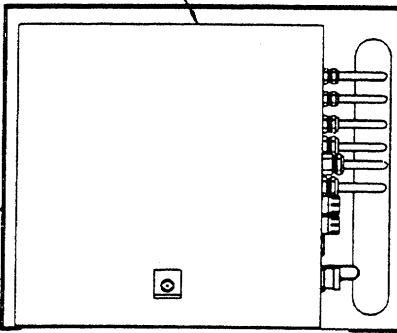
THE WORLDWIDE COMPANY

- PLUG
- FUSE (2A)
- CABLE REEL
- INCLINATION SENSOR
- PRESSURE TRANSDUCER (PISTON)
- HOIST PRESSURE SWITCH (AUX)
- HOIST PRESSURE SWITCH (MAIN)
- PRESSURE TRANSDUCER (ROD)
- CRANE INTERFACE
- CONSOLE
- FUSE (10A)
- DATALOGGER



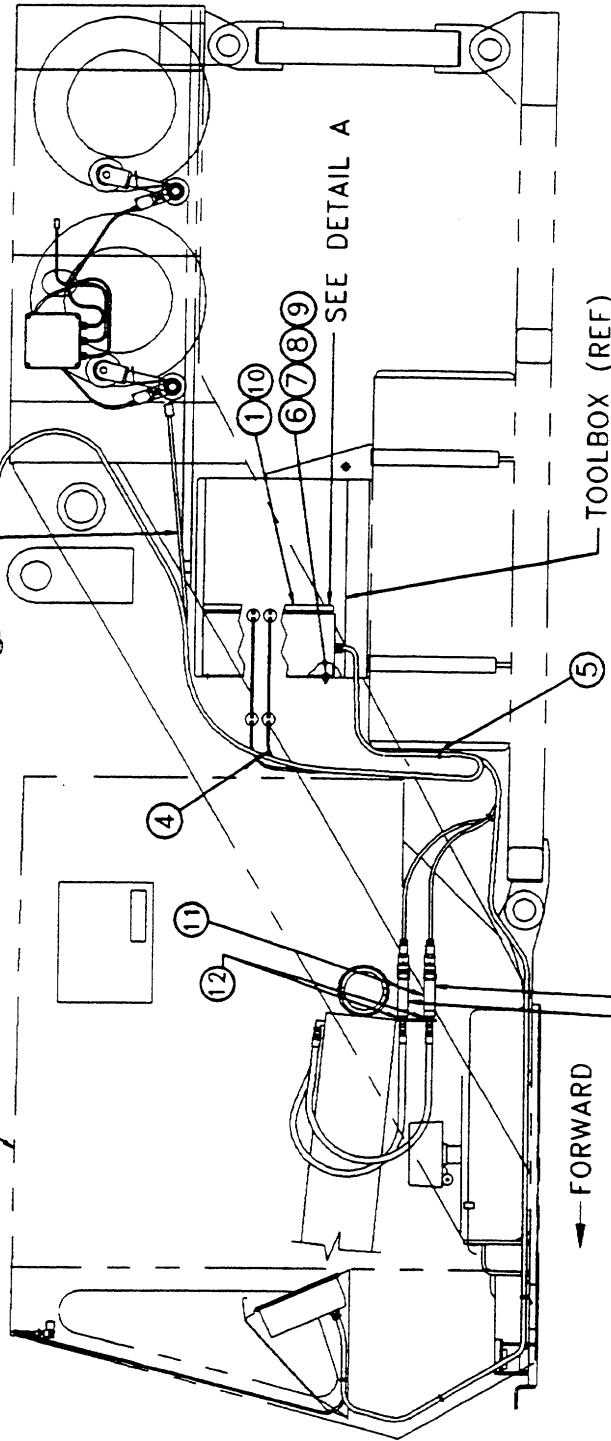
DETAIL A
CPU MTD INSIDE TOOLBOX

TOOLBOX (REF)



CONNECTS TO JUNCTION
BOX ON BOON

CAB (REF)



← FORWARD

- PRESSURE TRANSDUCER (ROD)
- PRESSURE TRANSDUCER (PISTON)

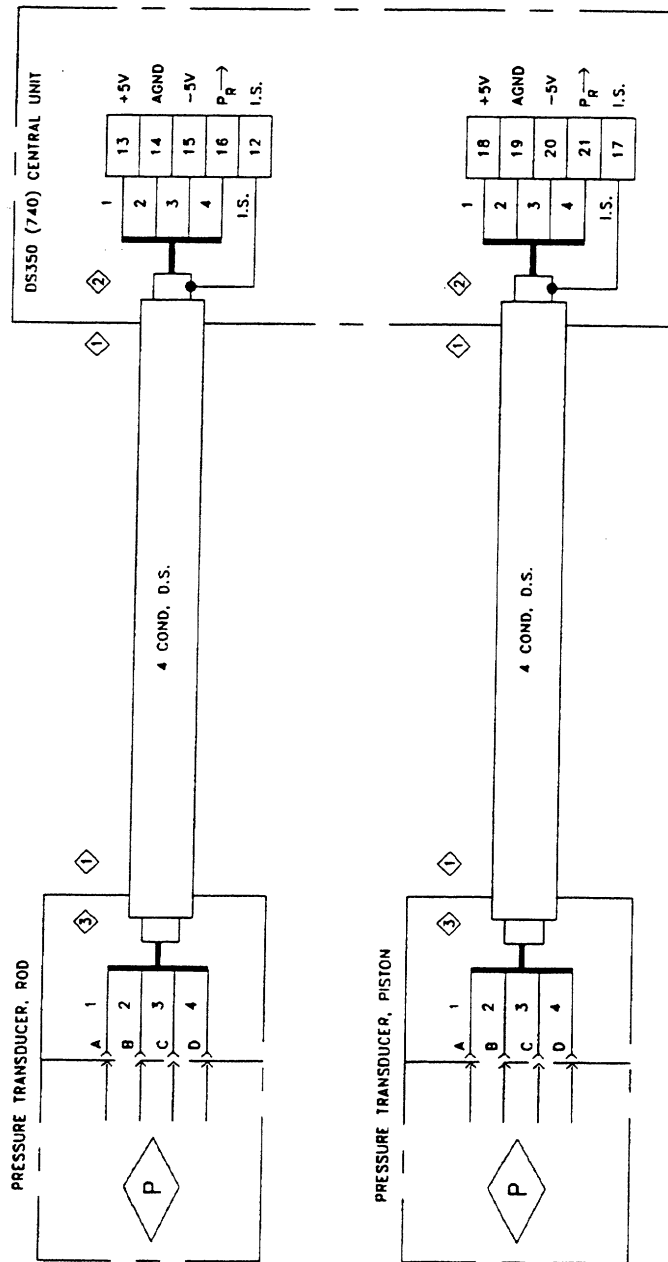
NOTES:
TIGHTEN STRAIN RELIEFS SECURELY, BUT TAKE CAUTION NOT TO OVER TIGHTEN.
INSTALL DUST COVERS WHEN PLUGS AND RECEPTACLES ARE DISCONNECTED.

LMI SUPERSTRUCTURE INSTALLATION

GROVE

NO.	PART NO.	QTY	DESCRIPTION	NO.	PART NO.	QTY	DESCRIPTION
1 +	9-333-102705	1	CENTRAL UNIT - DS350 ASSEMBLY				
2	9-333-101745	1	CABLE, ELEC. 4 X 1.5 S.S.				
3	9-333-102706	1	CABLE ASSEMBLY, 14-COND. D.S. W/ 14-PIN FEM. PLUG				
4	9-333-101742	1	CABLE, ELEC. 2 X 0.5 S.S.				
5	7-850-000102	20	STRAP 1/4" X 12"				
6	7-115-150850	4	BOLT, HEX 5/16"-18 NC X 1" - GRD 5				
7	7-450-150141	4	WASHER 5/16" NARROW				
8	7-450-150050	4	LOCKWASHER 5/16" MED				
9	9-333-102646	4	NUT, HEX				
10	9-333-102023	1	TIMER, MODULE				
11	9-333-101469	2	TRANSDUCER, PRESSURE				
12	9-333-101472	2	SEAL, CUTTING				

+ SEE FURTHER BREAKDOWN THIS GROUP

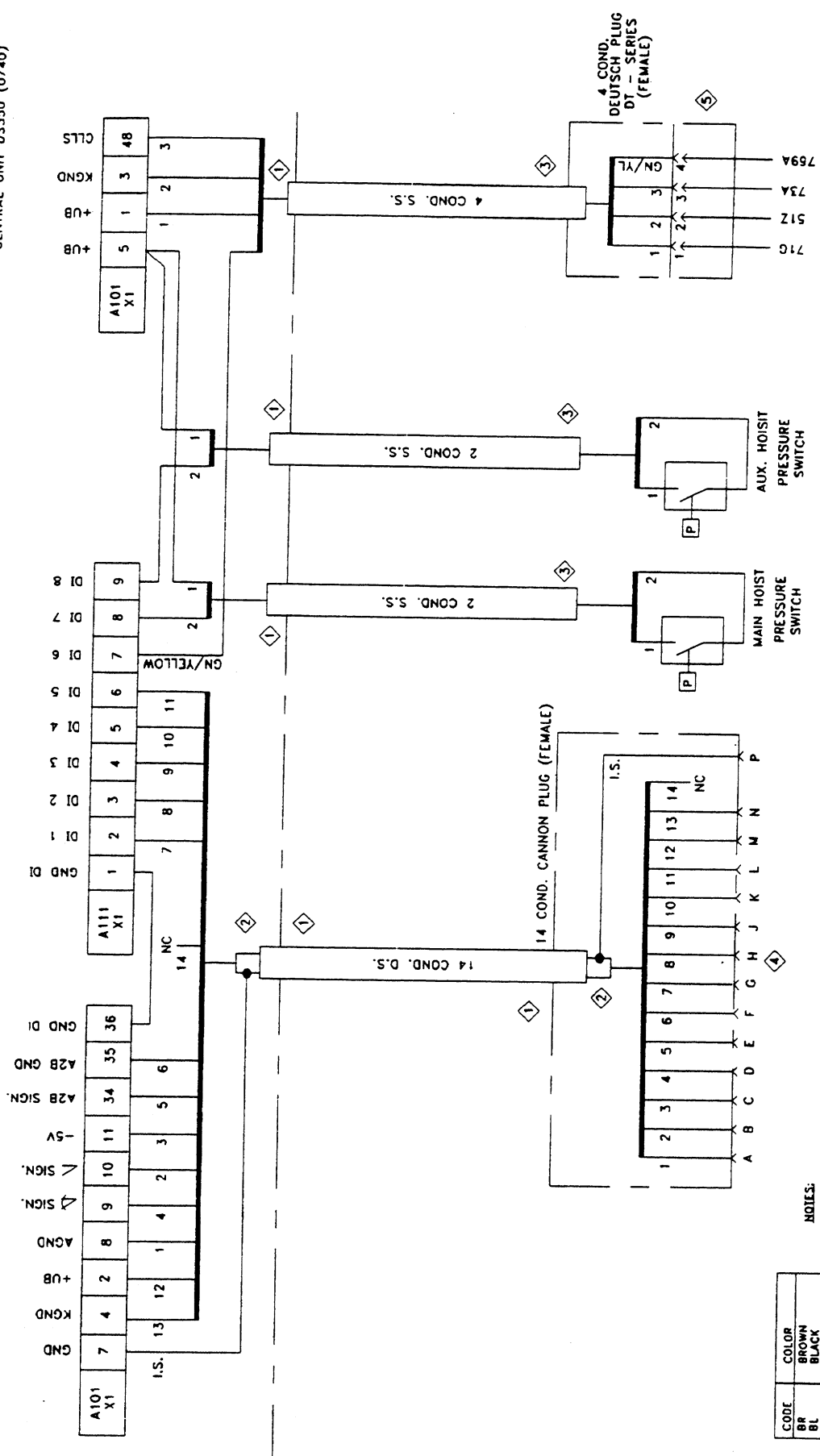


CODE	COLOR
BR	BROWN
BL	BLACK
WY	WHITE/YELLOW
WG	WHITE/GRAY
WB	WHITE/BLUE
WR	WHITE/RED
WP	WHITE/PINK
WBL	WHITE/BLACK
WBR	WHITE/BROWN
P	PINK
W	WHITE
GN	GREEN
B	BLUE
R	RED
WGN	WHITE/GREEN
C	GRAY
I.S.	INNER SHIELD

- ① OUTER SHIELD GROUNDED AT STRAIN RELIEF INSERT.
- ② INNER SHIELD INSULATED AND CONNECTED AS SHOWN.
- ③ INNER SHIELD CUT AND TAPED.

PRESSURE TRANSDUCER CONNECTION

CENTRAL UNIT DS350 (0740)



CODE	COLOR
BR	BROWN
BL	BLACK
YL	YELLOW
GR	WHITE GRAY
WG	WHITE
WR	WHITE/RED
WP	WHITE/PINK
WB	WHITE/BLACK
WB	WHITE/BROWN
P	PINK
W	WHITE
GN	GREEN
B	BLUE
R	RED
WCH	WHITE/GREEN
G	GRAY
I.S.	INNER SHIELD

- NOTES:**
- ① OUTER SHIELD GROUNDED AND CONNECTED AS SHOWN.
 - ② INNER SHIELD GROUNDED AND CONNECTED AS SHOWN.
 - ③ OUTER SHIELD CUT AND INSULATED.
 - ④ CONNECTS TO BOOM BASE JUNCTION BOX.
 - ⑤ GROVE CONNECTOR FOR LMI / CRANE INTERFACE.
- 71G = +UB
 51Z = KGND
 73A = CLLS
 769A = TRACK - EXTENDED SIGN.

CENTRAL UNIT DS350 WIRING SCHEMATIC