



**DANGER**

**Danger of electrical shock, burns or death.** Always remove all power sources before attempting any repair, service or diagnostic work. Power can be present from shore power, generator, inverter or battery. All power sources must be disabled and secured before performing any service.



**CAUTION**

If you lack the skills, tools or equipment to perform diagnostic or repair work leave such work to an authorized Winnebago Industries dealer or other qualified shop.

		8	7	6	5	4	3	2	1
		P327/TD	P34H/HD	P36C	P366D	P36L	P36LD	P390D	
RED	12-UL	136135-07-053	136135-07-053	136135-07-053	136135-07-053	136135-07-053	136135-07-053	136135-07-053	
	12-CA	136136-07-053	136136-07-053	136136-07-053	136136-07-053	136136-07-053	136136-07-053	136136-07-053	
MAIN	10-UL	136137-01-025	136137-01-033	136137-01-030	136137-01-030	136137-01-030	136137-01-030	136137-01-030	39C 12D
	10-CA	136138-01-025	136138-01-033	136138-01-030	136138-01-030	136138-01-030	136138-01-030	136138-01-030	39C 12D
	6-3 UL	136139-01-025	136139-01-033	136139-01-030	136139-01-030	136139-01-030	136139-01-030	136139-01-030	39C 78J
	6-3 CA	136140-01-025	136140-01-033	136140-01-030	136140-01-030	136140-01-030	136140-01-030	136140-01-030	39C 78J
	4-3 UL	136141-01-025	136141-01-033	136141-01-030	136141-01-030	136141-01-030	136141-01-030	136141-01-030	670
	4-3 CA	136142-01-025	136142-01-033	136142-01-030	136142-01-030	136142-01-030	136142-01-030	136142-01-030	670
GRN	12-UL	136135-08-025	136135-08-030	136135-08-030	136135-08-030	136135-08-030	136135-08-030	136135-08-030	12D
	12-CA	136136-08-025	136136-08-030	136136-08-030	136136-08-030	136136-08-030	136136-08-030	136136-08-030	12D
	12-UL	136135-08-053	136135-08-053	136135-08-053	136135-08-053	136135-08-053	136135-08-053	136135-08-053	78J
INVERTER CHARGER MAIN	12-CA	136136-08-053	136136-08-053	136136-08-053	136136-08-053	136136-08-053	136136-08-053	136136-08-053	78J
	10-UL	136137-01-035	136137-01-035	136137-01-035	136137-01-035	136137-01-035	136137-01-035	136137-01-035	79J
	10-CA	136138-01-035	136138-01-035	136138-01-035	136138-01-035	136138-01-035	136138-01-035	136138-01-035	79J
YEL	14-UL	136131-05-085	136131-05-090	136131-05-072	136131-05-072	136131-05-072	136131-05-072	136131-05-075	13B
	14-CA	136134-05-085	136134-05-090	136134-05-072	136134-05-072	136134-05-072	136134-05-072	136134-05-075	13B
YEL-2	14-UL	136131-05-070	136131-05-075	136131-05-072	136131-05-072	136131-05-072	136131-05-072	136131-05-075	144 15U 79W
	14-CA	136134-05-070	136134-05-075	136134-05-072	136134-05-072	136134-05-072	136134-05-072	136134-05-075	144 15U 79W
GLD	12-UL	N/A	136135-10-115	136135-10-080	136135-10-055	136135-10-075	136135-10-075	136135-10-080	21M 54E
	12-CA	N/A	136136-10-115	136136-10-080	136136-10-055	136136-10-075	136136-10-075	136136-10-080	21M 54E
WHT	12 UL	136135-09-195	136135-09-125	136135-09-155	136135-09-150	136135-09-155	136135-09-155	136135-09-170	1B2
	12 CA	136136-09-195	136136-09-125	136136-09-155	136136-09-150	136136-09-155	136136-09-155	136136-09-170	1B2
INVERTER CHARGER SUB	10-UL	136137-01-035	136137-01-035	136137-01-035	136137-01-035	136137-01-035	136137-01-035	136137-01-035	79J
	10-CA	136138-01-035	136138-01-035	136138-01-035	136138-01-035	136138-01-035	136138-01-035	136138-01-035	79J
BLU	14-UL	136131-02-200	136131-02-170	136131-02-200	136131-02-230	136131-02-174	136131-02-174	136131-02-350	
	14-CA	136134-02-200	136134-02-170	136134-02-200	136134-02-230	136134-02-174	136134-02-174	136134-02-350	
BRN	14-UL	136131-03-130	136131-03-060	136131-03-124	136131-03-100	136131-03-063	136131-03-063	136131-03-110	
	14-CA	136134-03-130	136134-03-060	136134-03-124	136134-03-100	136134-03-063	136134-03-063	136134-03-110	
PUR	14-UL	136131-04-185	136131-04-140	136131-04-250	136131-04-175	136131-04-093	136131-04-093	136131-04-185	
	14-CA	136134-04-185	136134-04-140	136134-04-250	136134-04-175	136134-04-093	136134-04-093	136134-04-185	
BLK	14-UL	136131-06-093	136131-06-060	136131-06-065	136131-06-075	136131-06-060	136131-06-060	136131-06-085	
	14-CA	136134-06-093	136134-06-060	136134-06-065	136134-06-075	136134-06-060	136134-06-060	136134-06-085	
GROUND MAIN		136145-01-023	136145-01-023	136145-01-023	136145-01-023	136145-01-023	136145-01-023	136145-01-023	
GROUND SUB		136145-01-020	136145-01-020	136145-01-020	136145-01-020	136145-01-020	136145-01-020	136145-01-020	79J
ATS GROUND		136145-01-016	136145-01-016	136145-01-016	136145-01-016	136145-01-016	136145-01-016	136145-01-016	
GENERATOR CABLE ASM		136146-01-101	136146-01-105			136146-01-116	136146-01-116		12D 39C
		136146-02-101	136146-02-105			136146-02-116	136146-02-116		12D 39C
		136147-01-101	136147-01-105			136147-01-116	136147-01-116		78J 39C
		136147-02-101	136147-02-105			136147-02-116	136147-02-116		78J 39C
GENERATOR CABLE ASM				136148-01-119	136148-01-119			136148-01-122	39C
		136148-02-101	136148-02-105	136148-02-119	136148-02-119	136148-02-116	136148-02-116	136148-02-122	670
GRN-2	12-UL	136135-08-062	136135-08-062	136135-08-062	136135-08-062	136135-08-062	136135-08-062	136135-08-062	12D
	12-CA	136136-08-062	136136-08-062	136136-08-062	136136-08-062	136136-08-062	136136-08-062	136136-08-062	12D

REVISE DATE 12-19-00 DWG NO 137998

REV ZONE REVISION RECORD DATE DRN

- 79W REFRIGERATOR-4 DOOR
- 79J INVERTER/CHARGER-1,500 WATT
- 670 GEN-7.5KW-ONAN-QUIET DIESEL
- 13B INVERTER/CHARGER-DC/AC W/O
- 78J ELECTRICAL SYSTEM - 50 AMP
- 54E WASHER/DRYER
- 265 CODES/STANDARDS - CSA/CMVSS
- 21M WASHER/DRYER - PREP
- 1B1 CODES/STANDARDS - USA
- 39C GEN-6.5KW ONAN LP MARO GOLD
- 15U REFRIGERATOR/FRZR W/ICEMAKER
- 144 REFRIGERATOR - DOUBLE DOOR
- 12D ELECTRICAL SYSTEM - 30 AMP

1B1 265

## WINNERBAGO

DRN	ORIG. DATE	11/30/00
ALL DIMENSIONS ARE IN MILLIMETERS		
P.E.		
W.E.	FIRST USED	
DRN	02 P-SERIES	

UNSPECIFIED TOLERANCES ARE:  
 HOLE DIA (X) .1  
 ONE-PLACE (X) .1 1.5  
 TWO-PLACE (X) .01 0.50  
 HOLE .5 1"

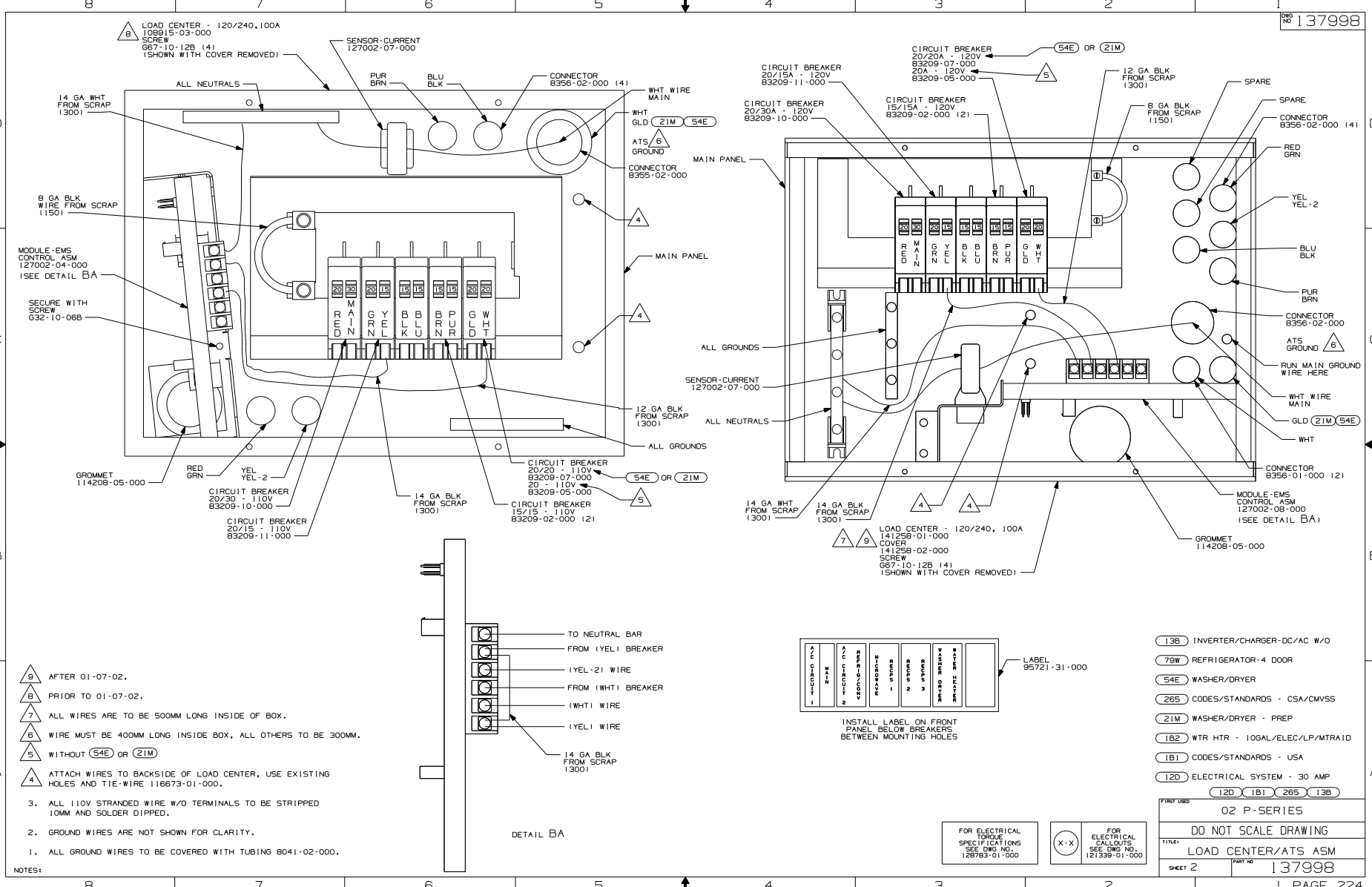
THIRD ANGLE PROJECTION

**DO NOT SCALE DRAWING**

TITLE: **LOAD CENTER/ATS ASM**

SHEET 1 of 6 PART NO 137998

NOTES:



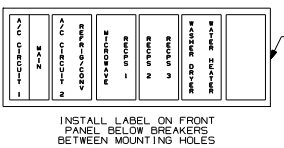
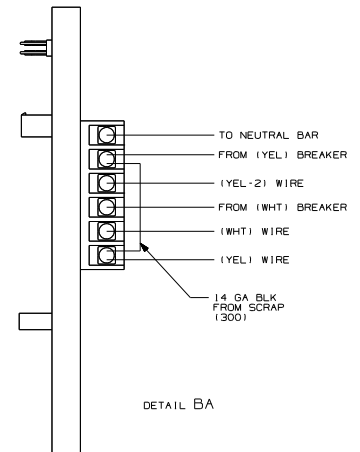
8  
7  
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1

A  
B  
C

8  
7  
6  
5  
4  
3  
2  
1

A  
B  
C

- 9 AFTER 01-07-02.  
8 PRIOR TO 01-07-02.  
7 ALL WIRES ARE TO BE 500MM LONG INSIDE OF BOX.  
6 WIRE MUST BE 400MM LONG INSIDE BOX, ALL OTHERS TO BE 300MM.  
5 WITHOUT (54E) OR (21M)  
4 ATTACH WIRES TO BACKSIDE OF LOAD CENTER, USE EXISTING HOLES AND TIE-WIRE 116673-01-000.
3. ALL 110V STRANDED WIRE W/O TERMINALS TO BE STRIPPED 10MM AND SOLDER DIPPED.  
2. GROUND WIRES ARE NOT SHOWN FOR CLARITY.  
1. ALL GROUND WIRES TO BE COVERED WITH TUBING 8041-02-000.



- (13B) INVERTER/CHARGER-DC/AC W/O
  - (79W) REFRIGERATOR-4 DOOR
  - (54E) WASHER/DRYER
  - (265) CODES/STANDARDS - CSA/CMVSS
  - (21M) WASHER/DRYER - PREP
  - (1B2) WTR HTR - 10GAL/ELEC/LP/MTR/1D
  - (1B1) CODES/STANDARDS - USA
  - (12D) ELECTRICAL SYSTEM - 30 AMP
- (12D) (1B1) (265) (13B)

FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 126783-01-000

(X-X)

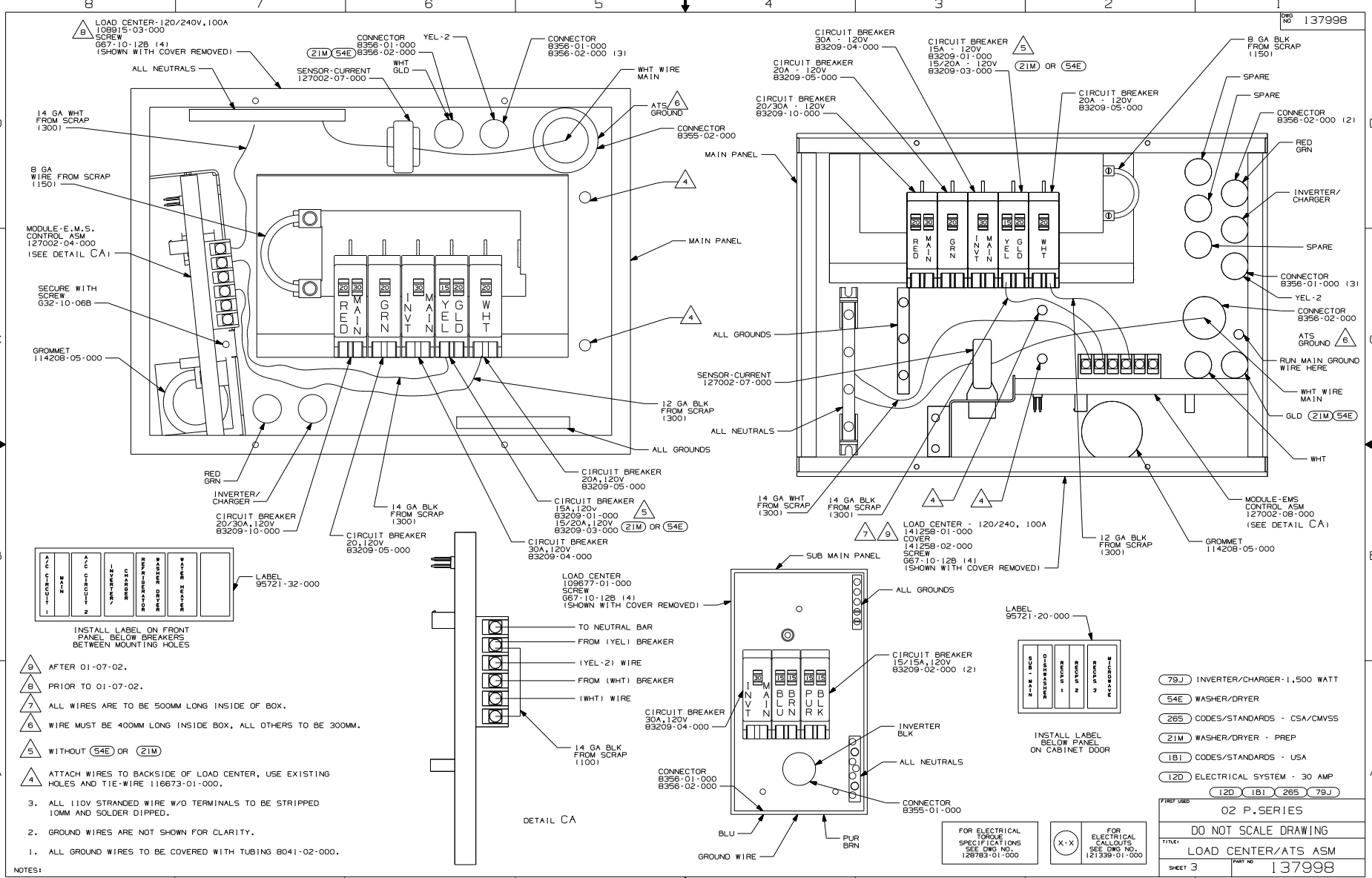
FOR ELECTRICAL CALLOUTS SEE DWG NO. 121339-01-000

FIGURE NO. 02 P-SERIES

DO NOT SCALE DRAWING

TITLE: LOAD CENTER/ATS ASM

SHEET 2 PART NO. 137998



LOAD CENTER-120/240V, 100A  
109815-03-000  
SCREW  
G67-10-12B (4)  
(SHOWN WITH COVER REMOVED)

CONNECTOR  
8356-01-000  
8356-02-000

CONNECTOR  
8356-01-000  
8356-02-000 (13)

CIRCUIT BREAKER  
30A - 120V  
83209-04-000

CIRCUIT BREAKER  
15A - 120V  
83209-01-000  
15/20A - 120V  
83209-03-000

9 GA BLK FROM SCRAP  
(150)

14 GA WHT FROM SCRAP  
(1300)

MODULE-E.M.S. CONTROL ASM  
127002-04-000  
(SEE DETAIL CA)

SECURE WITH SCREW  
G32-10-06B

GROMMET  
114208-05-000

RED GRN

CIRCUIT BREAKER  
20/30A, 120V  
83209-10-000

CIRCUIT BREAKER  
20, 120V  
83209-05-000

14 GA BLK FROM SCRAP  
(1300)

CIRCUIT BREAKER  
30A, 120V  
83209-04-000

LOAD CENTER  
109877-01-000  
SCREW  
G67-10-12B (4)  
(SHOWN WITH COVER REMOVED)

14 GA WHT FROM SCRAP  
(1300)

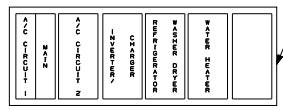
14 GA BLK FROM SCRAP  
(1300)

LOAD CENTER - 120/240, 100A  
141258-01-000  
COVER  
141258-02-000  
SCREW  
G67-10-12B (4)  
(SHOWN WITH COVER REMOVED)

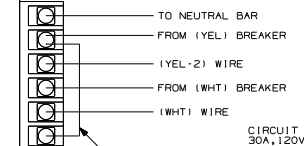
12 GA BLK FROM SCRAP  
(1300)

MODULE-EMS CONTROL ASM  
127002-08-000  
(SEE DETAIL CA)

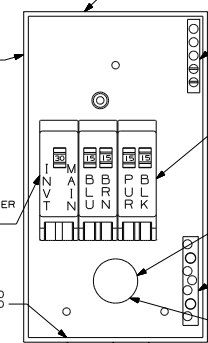
GROMMET  
114208-05-000



LABEL  
95721-32-000



DETAIL CA



ALL GROUNDS

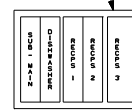
CIRCUIT BREAKER  
15/15A, 120V  
83209-02-000 (2)

INVERTER  
BLK

ALL NEUTRALS

CONNECTOR  
8356-01-000

LABEL  
95721-20-000



INSTALL LABEL  
BELOW PANEL  
ON CABINET DOOR

79J INVERTER/CHARGER-1,500 WATT

54E WASHER/DRYER

265 CODES/STANDARDS - CSA/CMVSS

21M WASHER/DRYER - PREP

1B1 CODES/STANDARDS - USA

12D ELECTRICAL SYSTEM - 30 AMP

120 1B1 265 79J

02 P.SERIES

DO NOT SCALE DRAWING

LOAD CENTER/ATS ASM

SHEET 3 PART NO 137998

9 AFTER 01-07-02.

8 PRIOR TO 01-07-02.

7 ALL WIRES ARE TO BE 500MM LONG INSIDE OF BOX.

6 WIRE MUST BE 400MM LONG INSIDE BOX, ALL OTHERS TO BE 300MM.

5 WITHOUT 54E OR 21M

4 ATTACH WIRES TO BACKSIDE OF LOAD CENTER, USE EXISTING HOLES AND TIE-WIRE 116673-01-000.

3. ALL 110V STRANDED WIRE W/O TERMINALS TO BE STRIPPED 10MM AND SOLDER DIPPED.

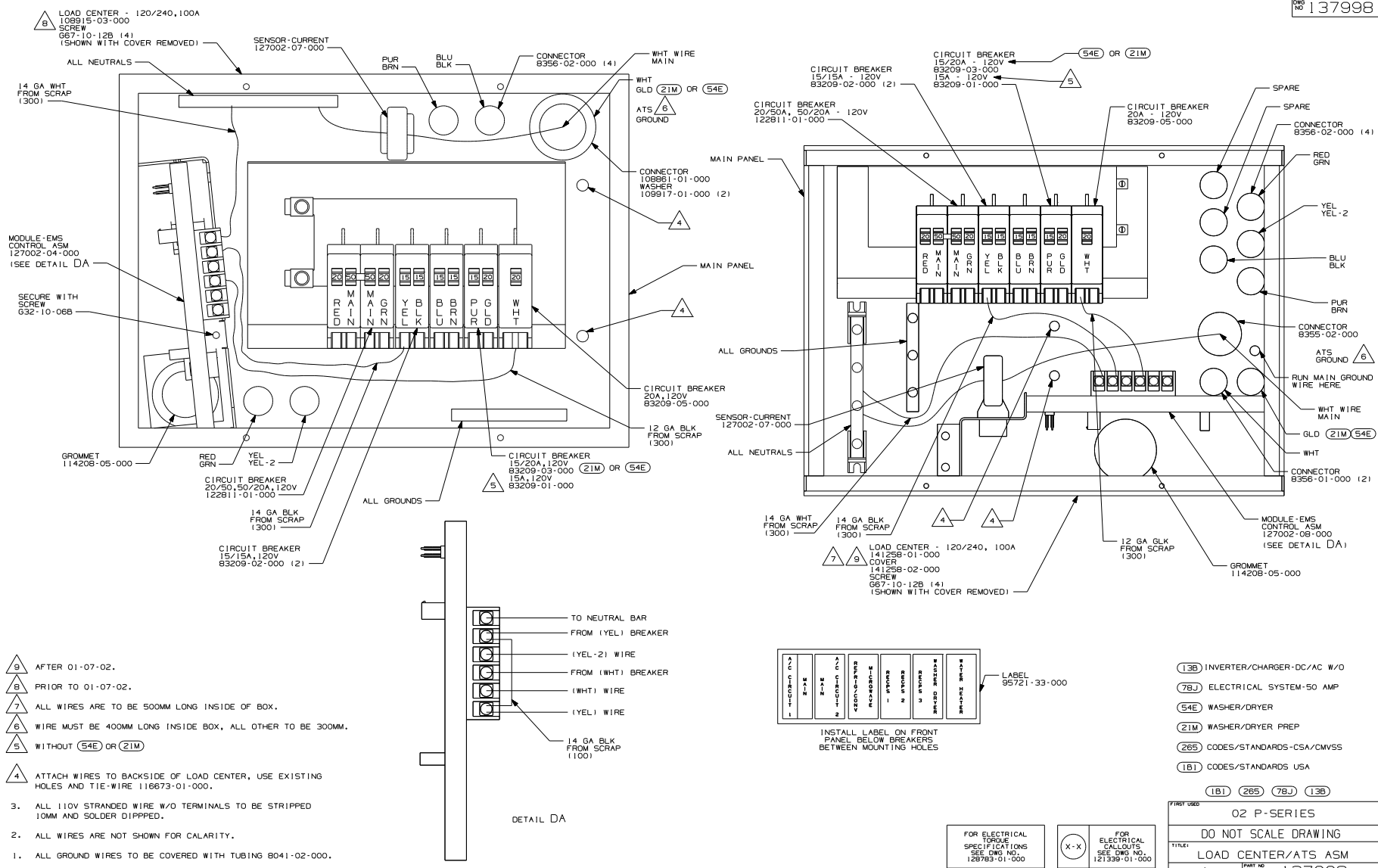
2. GROUND WIRES ARE NOT SHOWN FOR CLARITY.

1. ALL GROUND WIRES TO BE COVERED WITH TUBING 8041-02-000.

NOTES:

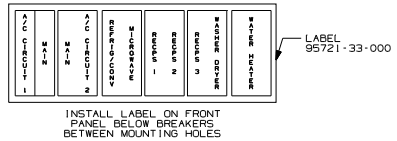
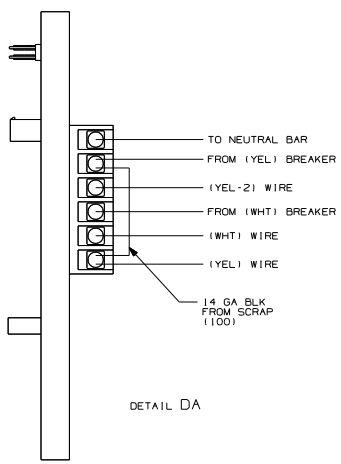
FOR ELECTRICAL  
TUBING  
SPECIFICATIONS  
SEE DWG NO  
126783-01-000

FOR  
ELECTRICAL  
CALLOUTS  
SEE DWG NO  
121338-01-000



- 9 AFTER 01-07-02.
- 8 PRIOR TO 01-07-02.
- 7 ALL WIRES ARE TO BE 500MM LONG INSIDE OF BOX.
- 6 WIRE MUST BE 400MM LONG INSIDE BOX, ALL OTHER TO BE 300MM.
- 5 WITHOUT (54E) OR (21M)

- 4 ATTACH WIRES TO BACKSIDE OF LOAD CENTER, USE EXISTING HOLES AND TIE-WIRE 116673-01-000.
- 3. ALL 110V STRANDED WIRE W/O TERMINALS TO BE STRIPPED 10MM AND SOLDER DIPPED.
- 2. ALL WIRES ARE NOT SHOWN FOR CALARITY.
- 1. ALL GROUND WIRES TO BE COVERED WITH TUBING 8041-02-000.



- (13B) INVERTER/CHARGER-DC/AC W/O
- (78J) ELECTRICAL SYSTEM-50 AMP
- (54E) WASHER/DRYER
- (21M) WASHER/DRYER PREP
- (265) CODES/STANDARDS-CSA/CMVSS
- (1B1) CODES/STANDARDS USA
- (1B1) (265) (78J) (13B)

FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 128783-01-000

(X-X)

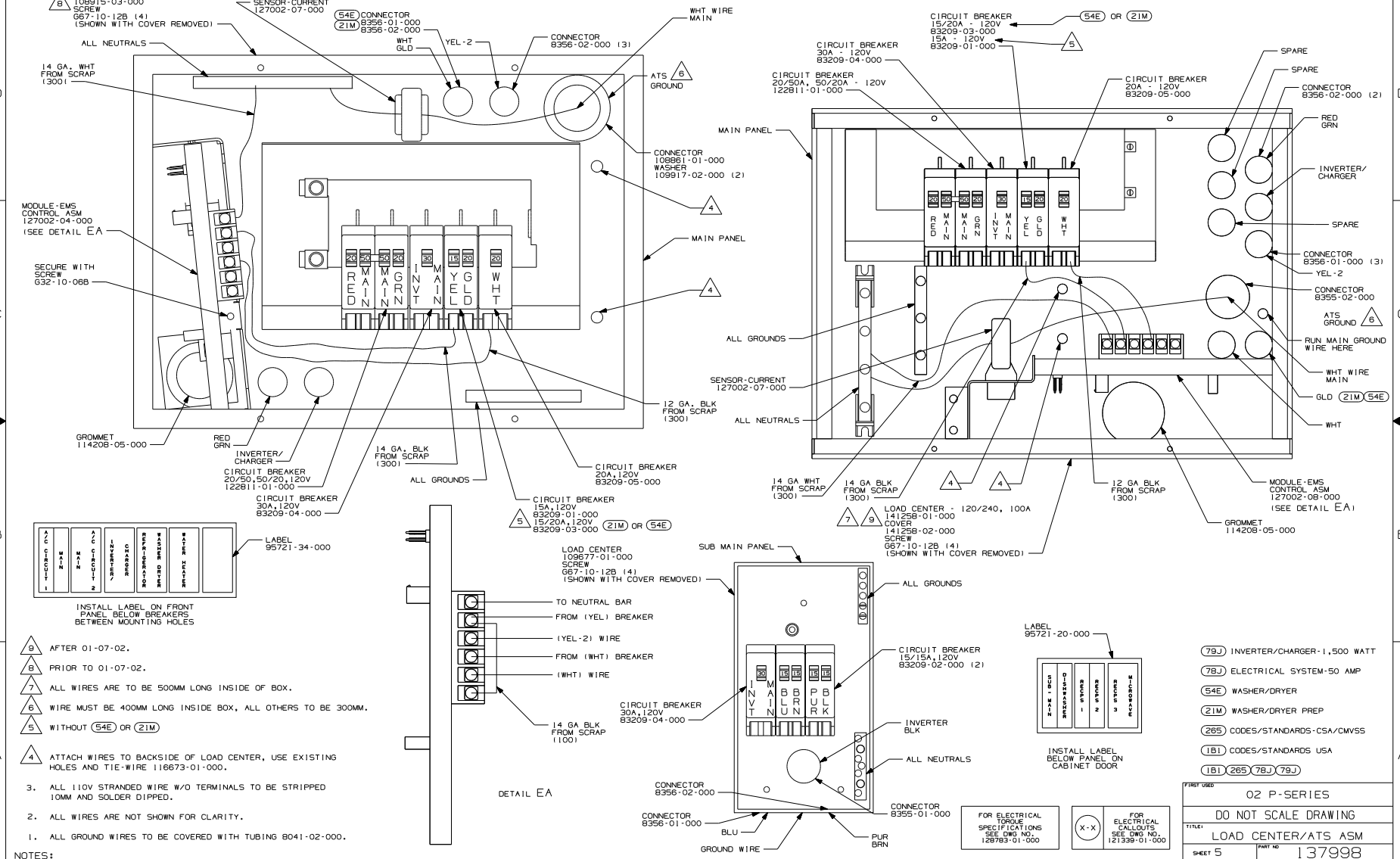
FOR ELECTRICAL CALLOUTS SEE DWG NO. 121338-01-000

FIRST USED: 02 P-SERIES

DO NOT SCALE DRAWING

TITLE: LOAD CENTER/ATS ASM

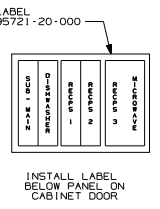
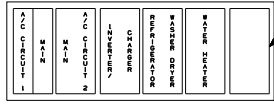
SHEET 4 PART NO 137998



NOTES:

1. ALL GROUND WIRES TO BE COVERED WITH TUBING 8041-02-000.
2. ALL WIRES ARE NOT SHOWN FOR CLARITY.
3. ALL 110V STRANDED WIRE W/O TERMINALS TO BE STRIPPED 10MM AND SOLDER DIPPED.

- 4. ATTACH WIRES TO BACKSIDE OF LOAD CENTER, USE EXISTING HOLES AND TIE-WIRE 116673-01-000.
- 5. WITHOUT (54E) OR (21M)
- 6. WIRE MUST BE 400MM LONG INSIDE BOX, ALL OTHERS TO BE 300MM.
- 7. ALL WIRES ARE TO BE 500MM LONG INSIDE OF BOX.
- 8. PRIOR TO 01-07-02.
- 9. AFTER 01-07-02.

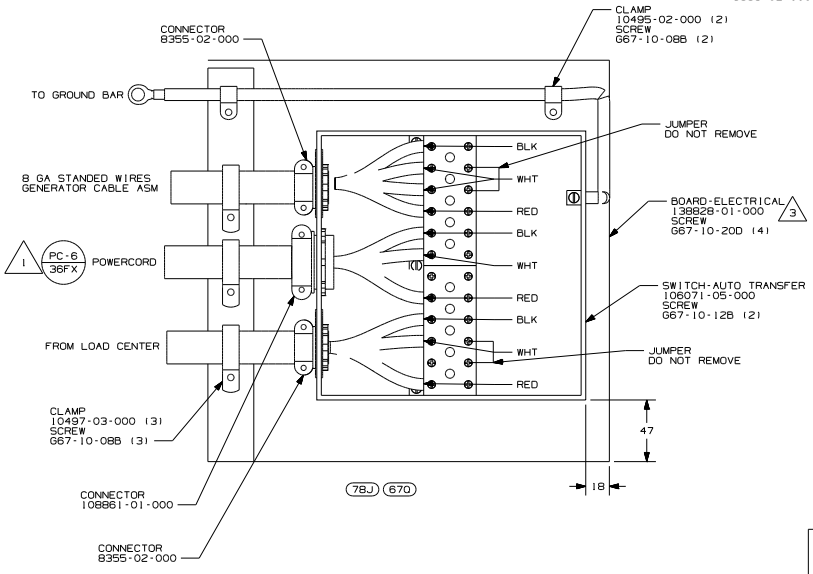
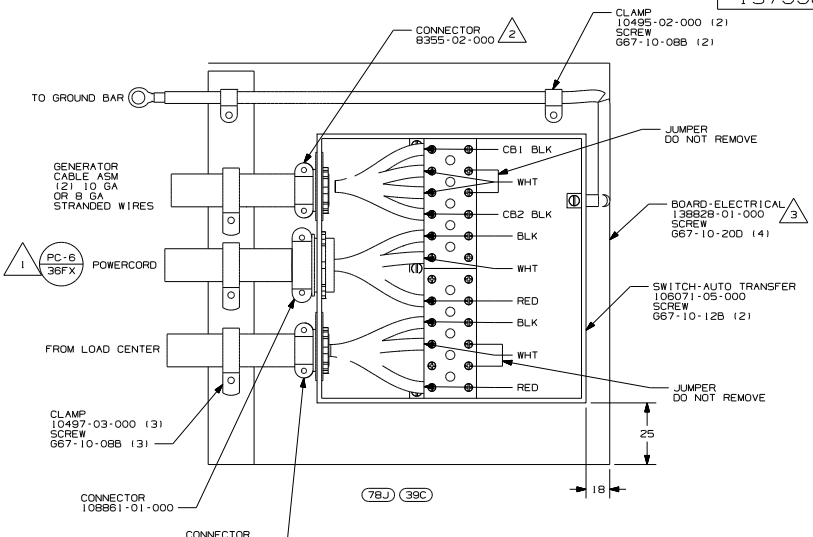
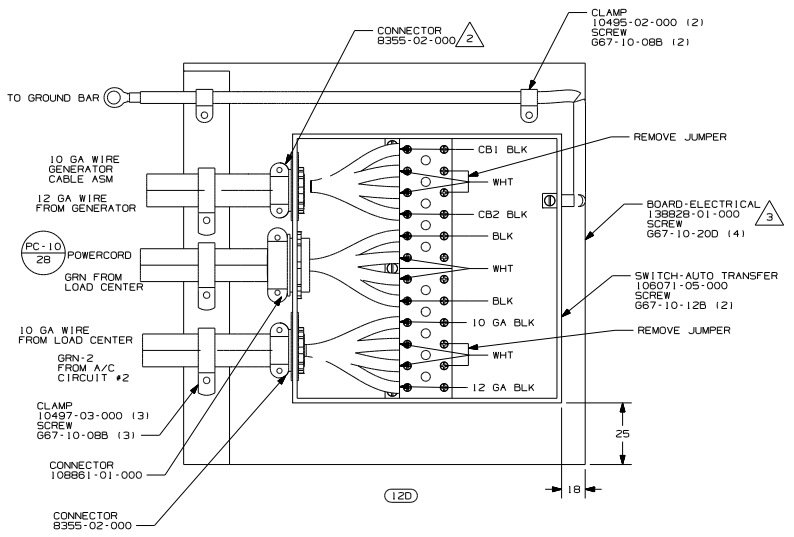


- (79J) INVERTER/CHARGER-1,500 WATT
- (78J) ELECTRICAL SYSTEM-50 AMP
- (54E) WASHER/DRYER
- (21M) WASHER/DRYER PREP
- (265) CODES/STANDARDS-CSA/CMVSS
- (181) CODES/STANDARDS USA
- (181) (265) (78J) (79J)

FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 126783-01-000

(X-X) FOR ELECTRICAL CALLOUTS SEE DWG NO. 121338-01-000

FIRST USED	02 P-SERIES
DO NOT SCALE DRAWING	
LOAD CENTER/ATS ASM	
SHEET 5	PART NO 137998



- 3 BOARD IS NOT ATTACHED TO A.T.S. TO ALLOW FOR PROPER ROUTING.
- 2 NOT USED WITH P36C, P366D, P390D.
- 1 CORD INSTALLED BY LINE.

- 78J INVERTER/CHARGER-1,500 WATT
- 78J ELECTRICAL SYSTEM-50 AMP
- 670 GEN-7.5KW-ONAN-QUIET DIESEL
- 39C GEN-6.5KW-ONAN-LP-MARO-GOLD
- 12D ELECTRICAL SYSTEM-30 AMP
- 265 CODES/STANDARDS-CSA/CMVSS
- 1B1 CODES/STANDARDS-USA
- 1B1 265

FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 128783-01-000

X-X FOR ELECTRICAL CALLOUTS SEE DWG NO. 121338-01-000

FIRST DED 02 P-SERIES

DO NOT SCALE DRAWING

TITLE: LOAD CENTER/ATS ASM

SHEET 6 PART NO 137998