

# CATERPILLAR SR4

5DA / SEBP1532

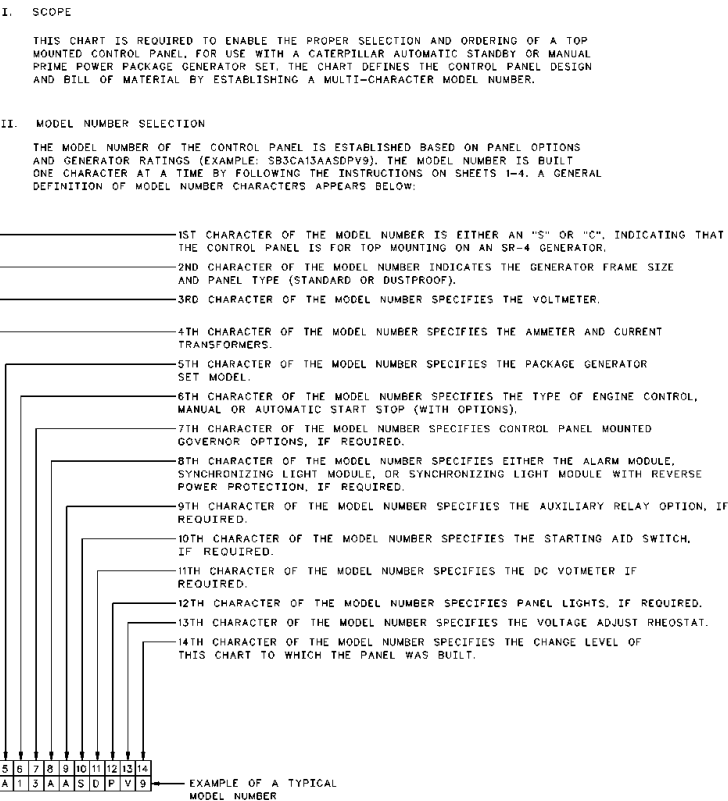
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 1 OF 9

Drawing 1 of 1



| Ref.                                                                      | Part number | Description | Qty | Code | Group |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|-------|
| Parts list rows are not synced on this VPS for SEBP1532/SEBP15320001 yet. |             |             |     |      |       |

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 2 OF 9

Drawing 1 of 1

III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER

1—THE FIRST CHARACTER OF THE MODEL NUMBER INDICATES THAT THE CONTROL PANEL IS A STANDARD PANEL, OR A CANADIAN STANDARD ASSOC. APPROVED PANEL, FOR TOP MOUNTING ON A SR-4 GENERATOR.  
S=STANDARD  
C=CSA APPROVED PANEL (INCLUDES 9Y4335 FILM AND 3L0369 CSA DIELECTRIC TEST)

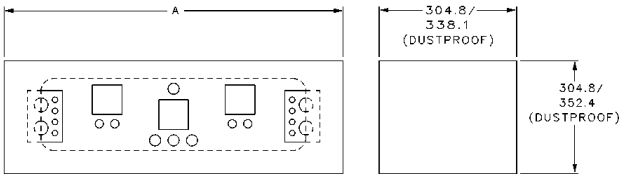
2—THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE GENERATOR FRAME SIZE & PANEL TYPE. THE FRAME SIZE DETERMINES THE PHYSICAL DIMENSIONS OF THE CONTROL PANEL. SEE TABLE 1 AND FIGURE 1.

SB3CA13AASDPV9

TABLE 1

|   | PANEL TYPE | GENERATOR FRAME SIZE | PANEL WIDTH "A" | PANEL AS. |        |        | HARNESS AS. |        |
|---|------------|----------------------|-----------------|-----------|--------|--------|-------------|--------|
|   |            |                      |                 | DOOR      | BOX    | FACADE | AC          | DC     |
| A | STANDARD   | 360                  | 608.2           | —         | 4P3466 | —      | 7E6486      | 7E6487 |
| B | STANDARD   | 440/580              | 698.5           | —         | 7E6485 | 4P5813 | 7E6488      | 7E6489 |
|   |            | 680/800              |                 |           |        |        | —           | —      |
| C | DUSTPROOF  | 360                  | 619.1           | 4W9904    | 4P3465 | —      | 7E6486      | 7E6487 |
| D | DUSTPROOF  | 440/580              | 714.4           | 7W0202    | 7E6484 | —      | 7E6488      | 7E6489 |
|   |            | 680/800              |                 |           |        |        | —           | —      |

FIGURE 1



3 —THE THIRD CHARACTER OF THE MODEL NUMBER SPECIFIES THE VOLTMETER.

MODEL SB3CA13AASDPV9

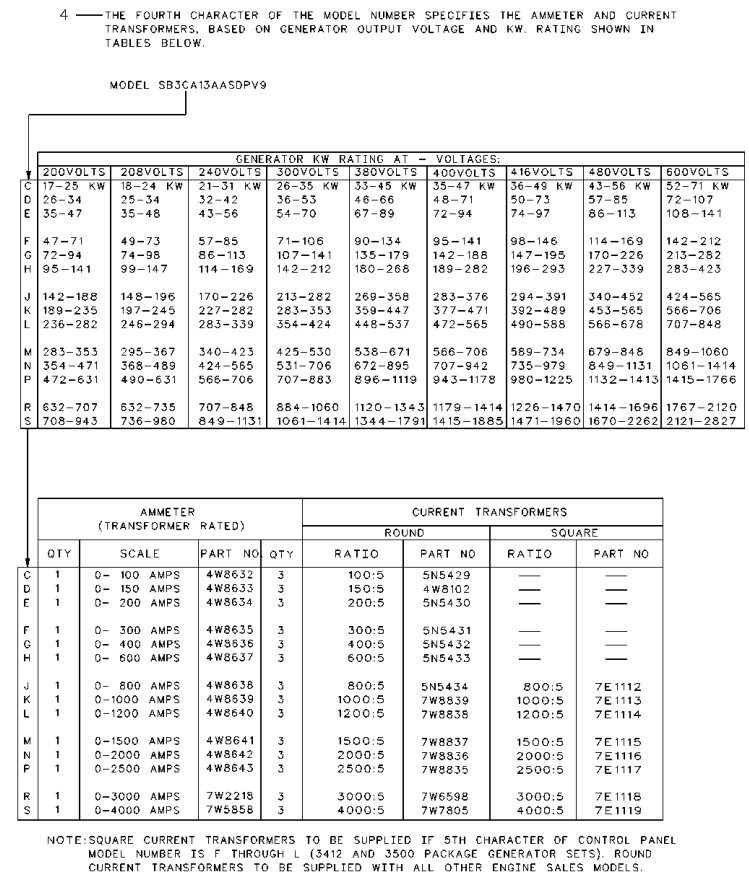
| GENERATOR OPERATING VOLTAGE | AC VOLTMETER |          | FREQUENCY METER RESISTOR |  |
|-----------------------------|--------------|----------|--------------------------|--|
|                             | SCALE        | PART NO. | PART NO.                 |  |
| 2 0 -240 VAC                | 0-300 VAC    | 4W8644   | NOT REQUIRED             |  |
| 3 241-480 VAC               | 0-600 VAC    | 4W8645   | 7E6496                   |  |
| 4 481-600 VAC               | 0-750 VAC    | 7W6969   | 7C4561                   |  |

| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
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| Parts list rows are not synced on this VPS for SEBP1532/SEBP15320002 yet. |             |             |     |      |            |

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 3 OF 9

Drawing 1 of 1



| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|------------|
| Parts list rows are not synced on this VPS for SEBP1532/SEBP15320003 yet. |             |             |     |      |            |

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 4 OF 9

Drawing 1 of 1

5 — THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PACKAGE GENERATOR SET ON WHICH THE PANEL WILL BE INSTALLED.

MODEL SB3CA13AASDPV9

| PACKAGE<br>GENERATOR<br>SET | CHARACTER | PANEL FRONT<br>SHOCK MOUNT |     |
|-----------------------------|-----------|----------------------------|-----|
|                             |           | PART NO.                   | QTY |
| 3208                        | A         | 3N1968                     | 2   |
| 3304                        | B         |                            |     |
| 3306                        | C         |                            |     |
| 3406                        | D         |                            |     |
| 3408                        | E         |                            |     |
| 3412                        | F         |                            |     |
| 3508                        | G         | 7E1235                     | 2   |
| 3512                        | J         |                            |     |
| 3516                        | L         |                            |     |

6 — THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF THE ENGINE CONTROL AND CYCLE CRANK AND COOLDOWN TIMER OPTIONS, IF REQUIRED.

MODEL SB3CA13AASDPV9

| ENGINE CONTROL TYPE |                                         | ENGINE<br>CONTROL<br>GROUP | ENGINE CONTROL OPTIONS |                   | HARNESS<br>AS. |
|---------------------|-----------------------------------------|----------------------------|------------------------|-------------------|----------------|
|                     |                                         |                            | CYCLE CRANK<br>TIMER   | COOLDOWN<br>TIMER |                |
| M                   | MANUAL                                  | 4W8004                     | NOT<br>COMPATIBLE      | NOT<br>COMPATIBLE | 7E6493         |
| 1                   | AUTOMATIC (SINGLE CRANK)                | 4W8005                     | NOT REQUIRED           | NOT REQUIRED      | 7E6492         |
| 2                   | AUTOMATIC (W/CYCLE CRANK)               | 4W8005                     | 4W8007                 | NOT REQUIRED      | 7E6492         |
| 3                   | AUTOMATIC (W/COOLDOWN)                  | 4W8005                     | NOT REQUIRED           | 4W8008            | 7E6492         |
| 4                   | AUTOMATIC (W/CYCLE CRANK &<br>COOLDOWN) | 4W8005                     | 4W8007                 | 4W8008            | 7E6492         |

| Ref.                                                                      | Part number | Description | Qty | Code | Group |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|-------|
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 5 OF 9

Drawing 1 of 1

7 —THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES CONTROL PANEL MOUNTED GOVERNOR OPTIONS, IF REQUIRED.

MODEL SB3CA13AASDPV9

|   | GOVERNOR<br>OPTION                                                | GOVERNOR<br>TYPE                         | GOV SW | GOVERNOR GP-<br>ELECTRONIC | GOVERNOR FUSE | FILM   |
|---|-------------------------------------------------------------------|------------------------------------------|--------|----------------------------|---------------|--------|
| X | NONE, OR SHIPPED<br>LOOSE CUSTOMER<br>INSTALLED 2301A<br>GOVERNOR | CAT HYDRA-MECH,<br>2301A LOAD<br>SHARING | —      | —                          | —             | —      |
| 1 | GOVERNOR<br>SWITCH GP                                             | CAT HYDRA-MECH<br>PSG,3161               | 4W8181 | —                          | —             | —      |
| 2 | 2301 GOVERNOR<br>(W/PRE-REGULATOR)                                | 2301 SPEED<br>SENSING                    | —      | 4W8185                     | 7T0037        | 7E7845 |
| 3 | 2301 GOVERNOR                                                     | 2301 SPEED<br>SENSING                    | —      | 4W8180                     | 7T0037        | 7E7845 |
| 4 | 1724/8290 GOVERNOR<br>(F/U/W 3114 AND<br>3116 ENGINES)            | ELECTRONIC SPEED<br>SENSING              | —      | 7E1233                     | 3K8782        | 9Y9782 |
| 5 | 1724/8290 GOVERNOR                                                | ELECTRONIC SPEED<br>SENSING              | —      | 7E1232                     | 3K8782        | 9Y9782 |
| 6 | 2301A GOVERNOR                                                    | 2301A SPEED<br>SENSING                   | —      | 4P2788                     | 7T0037        | 7E7845 |

NOTE : ABOVE CHARACTERS 2, 3, & 6 ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 8TH CHARACTERS L OR R (SYNC LIGHT). ABOVE CHARACTERS 4 AND 5 ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 8TH CHARACTERS L OR R UNLESS PROVIDED WITH OPTIONAL 7E2583 LOAD SHARE MODULE (NOT INSTALLED).

8 —THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES EITHER THE ALARM MODULE, SYNCHRONIZING LIGHT MODULE, SYNCHRONIZING LIGHT MODULE WITH GENERATOR REVERSE POWER PROTECTION OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

|   | MODULE TYPE                     | MODULE<br>PART NO. | CANADIAN STANDARD<br>600 VAC MODULE<br>PART NO. | COVER PLATE  | HARNESS AS. |
|---|---------------------------------|--------------------|-------------------------------------------------|--------------|-------------|
| X | NOT REQUIRED                    | NOT REQUIRED       | NOT REQUIRED                                    | 4W8190       | —           |
| A | ALARM (NFPA-99)                 | 4W8006             | 4W8006                                          | NOT REQUIRED | 7E6494      |
| B | ALARM (NFPA-110)                | 7C3084             | 7C3084                                          | NOT REQUIRED | 7E6495      |
| L | SYNC. LIGHTS                    | 4W8002             | 7C3262                                          | NOT REQUIRED | —           |
| R | SYNC. LIGHTS<br>W/REVERSE POWER | 4W8003             | 7C3263                                          | NOT REQUIRED | —           |

NOTE : ABOVE CHARACTERS L & R ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 7TH CHARACTERS 2, 3, AND 6 (2301 GOVERNORS). REVERSE POWER RELAY SHALL BE SET AT APPROX. 15% OF GENERATOR RATING. IF THIRD CHARACTER OF MODEL NO. IS A "4", USE 600 VAC CANADIAN MODULE PART NUMBER. ABOVE CHARACTERS L AND R ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 7TH CHARACTERS 4 AND 5 UNLESS PROVIDED WITH OPTIONAL 7E2583 LOAD SHARE MODULE (NOT INSTALLED).

| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|------------|
| Parts list rows are not synced on this VPS for SEBP1532/SEBP15320005 yet. |             |             |     |      |            |

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 6 OF 9

Drawing 1 of 1

9 —THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AUXILIARY RELAY OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

| MODULE GROUP - RELAY |              |
|----------------------|--------------|
| X                    | NOT REQUIRED |
| A                    | 4W8009       |

NOTE :THE AUXILIARY RELAY IS NOT AVAILABLE WITH THE CONTROL PANEL MODEL NUMBER 6TH CHARACTER M (MANUAL START STOP CONTROL).

10 —THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE STARTING AID SWITCH OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

| QTY | STARTING AID SWITCH GP | PLUG BUTTON  | FILM         |
|-----|------------------------|--------------|--------------|
| X 1 | NOT REQUIRED           | 5P7509       | NOT REQUIRED |
| S 1 | 4W8182 MANUAL          | NOT REQUIRED | NOT REQUIRED |
| A 1 | 8C9812 AUTOMATIC       | NOT REQUIRED | 7E7851       |

NOTE :ABOVE CHARACTER A IS COMPATIBLE ONLY WITH CONTROL PANEL MODEL NUMBER 5TH CHARACTERS G, J, AND L (3500 SERIES ENGINES PROVIDED WITH AUTOMATIC ETHER INJECTION).

11 —THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE DC VOLTMETER OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

| QTY | DC VOLTMETER AS. | PLUG BUTTON  |
|-----|------------------|--------------|
| X 1 | NOT REQUIRED     | 6V5183       |
| D 1 | 4W8184           | NOT REQUIRED |

12 —THE TWELFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE OPTIONAL PANEL ILLUMINATION LIGHT GROUP, IF REQUIRED.

MODEL SB3CA13AASDPV9

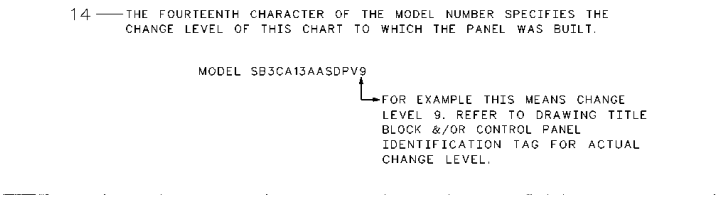
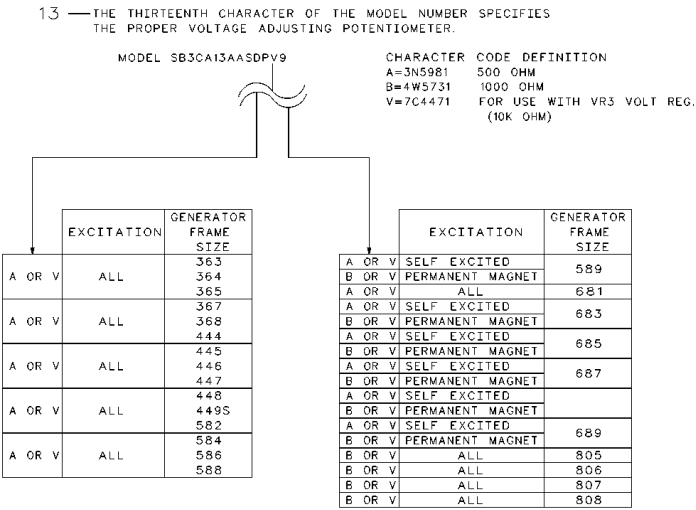
| QTY | PANEL LIGHTS GROUP | PLUG BUTTON  |
|-----|--------------------|--------------|
| X 1 | NOT REQUIRED       | 5P7509       |
|     |                    | 5P4935       |
| P 1 | 4W8183             | NOT REQUIRED |

| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 7 OF 9

Drawing 1 of 1



| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|------------|
| Parts list rows are not synced on this VPS for SEBP1532/SEBP15320007 yet. |             |             |     |      |            |

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 8 OF 9

Drawing 1 of 1

IV. IN ADDITION TO THE COMPONENTS SPECIFIED BY THE MODEL NUMBER, THE FOLLOWING COMPONENTS ARE REQUIRED TO COMPLETE THE CONTROL PANEL.

|       | PART NO. |                               |                                                     |
|-------|----------|-------------------------------|-----------------------------------------------------|
| 3     | —        | TERMINALS FOR WIRE T1,T2,T3   | ETC MOLEX INC, PART NO. B-201-38HDX                 |
| 1     | 7C5695   | FREQUENCY METER               | 45-65 HZ DIAL TYPE 240 VAC                          |
| 1     | 3N5976   | SWITCH (ROTARY)               | PHASE SELECTOR SWITCH (AMMETER-VOLTMETER)           |
| 1     | 7C0974   | FILM                          | WARNING ELECTRICAL SHOCK HAZARD                     |
| 2     | 3N5611   | SHOCK MOUNT AS.               | REAR, MULTIPLANE MOUNTS                             |
| 1 LOT | —        | PANDUIT (PLASTIC WIREWAY)     | USE AS REQUIRED                                     |
| 1     | 4L6470   | TERMINAL STRIP 12 POINT       |                                                     |
| 2     | 4W8229   | TERMINAL STRIP 20 POINT       |                                                     |
| 1     | 4W8226   | STRIP - TERMINAL MARKER       | TB A TERMINAL STRIP MARKER                          |
| 1     | 4W8227   | STRIP - TERMINAL MARKER       | TB B TERMINAL STRIP MARKER                          |
| 1     | 4W8228   | STRIP - TERMINAL MARKER       | TB C TERMINAL STRIP MARKER                          |
| 1 LOT | —        | LABELS - COMPONENT            | APPROVED BY CAT                                     |
| 1 LOT | —        | YELLOW BRAIDED HARNESS SLEEVE | USE AS REQUIRED                                     |
| 1     | 3N5977   | FUSE BLOCK                    | 3 POLE, 600 VOLT AC                                 |
| 3     | 7W0482   | FUSE                          | 2 AMP, 600 VOLT AC                                  |
| 1     | 4W2065   | OIL PRESSURE GAGE             |                                                     |
| 1     | 4W0463   | WATER TEMPERATURE GAGE        |                                                     |
| 1     | —        | BARRIER                       | BACK OF METER PANEL                                 |
| 2     | 7C1466   | BUSHING                       | TO SEAL HARNESS BETWEEN GENERATOR AND CONTROL PANEL |
| 1     | 9Y9771   | FILM                          | PANEL IDENTIFICATION NAMEPLATE                      |
| 1     | 9Y9783   | FILM                          | FUSE LABEL, 2A AC                                   |
| 1     | 4W5972   | KNOB                          | KNOB FOR VOLTAGE ADJUST RHEOSTATS                   |
| 1     | 7E6490   | HARNESS AS. - WIRING          | DC INTERNAL WIRING HARNESS                          |
| 1     | 7E6491   | HARNESS AS. - WIRING          | AC INTERNAL WIRING HARNESS                          |
| 3     | 4P2160   | WASHER                        | METER PANEL HARDWARE                                |
| 3     | 4P2161   | SCREW                         |                                                     |
| 3     | 4P2162   | CLIP                          |                                                     |

| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL PART 9 OF 9

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- V. GENERAL REQUIREMENTS
- 1. ALL CONTROL PANELS SHALL CONTAIN THE APPROPRIATE SPACE,WIRING,HOLES,ETC. TO SUPPORT THE FIELD INSTALLATION OF ANY OPTION LISTED ON THIS CHART.
  - 2. THE COMPLETED CONTROL PANEL SHALL BE FINISHED PAINTED CATERPILLAR HI-WAY YELLOW, 1E2139.
  - 3. A SUPPLIER NAMEPLATE WILL BE ATTACHED INSIDE THE PANEL ENCLOSURE. THE CONTROL PANEL MODEL NUMBER SHALL BE STAMPED ON THIS NAMEPLATE, ALONG WITH THE DATE CODE.
  - 4. A COMPLETE SET OF CAT DRAWINGS INCLUDING OUTLINE DRAWING, WIRING DIAGRAMS, SCHEMATIC DIAGRAMS,INTERCONNECT DIAGRAM SHALL BE PACKED WITH EACH CONTROL PANEL.
  - 5. STANDARD HARDWARE FASTENERS USED FOR SHEETMETAL TO SHEETMETAL SECUREMENT SHALL BE TORQUED TO THE VALUES GIVEN BELOW. IN ADDITION TYPE B LOCTITE SEALANT, AS SPECIFIED BY 1E2200, SHALL BE USED EXCEPT ON INSTRUMENT PANEL DOOR FASTENERS.

| SCREW<br>SIZE<br>(INCH) | STANDARD HARDWARE |        |          |       |
|-------------------------|-------------------|--------|----------|-------|
|                         | NEWTON-METERS     |        | FOOT-LBS |       |
|                         | MIN               | MAX    | MIN      | MAX   |
| 4-40                    | 0.37              | 0.53   | 0.3      | 0.4   |
| 6-32                    | 0.69              | 0.96   | 0.5      | 0.7   |
| 8-32                    | 1.41              | 2.01   | 1.0      | 1.5   |
| 10-32                   | 2.35              | 3.36   | 1.7      | 2.5   |
| 1/4-20                  | 5.70              | 8.14   | 4.2      | 6.0   |
| 5/16-18                 | 10.44             | 14.91  | 7.7      | 11.0  |
| 3/8-16                  | 18.03             | 25.76  | 13.3     | 19.0  |
| 7/16-14                 | 28.48             | 40.68  | 21.3     | 30.0  |
| 1/2-13                  | 42.71             | 61.02  | 31.5     | 45.0  |
| 9/16-12                 | 62.65             | 89.50  | 46.2     | 66.0  |
| 5/8-11                  | 88.28             | 126.11 | 65.1     | 93.0  |
| 3/4-10                  | 142.38            | 203.40 | 105.0    | 150.0 |
| 7/8-9                   | 191.74            | 273.91 | 141.4    | 202.0 |

6. METER PHASE SELECTOR SWITCH POSITION VS PHASE

| POSITION          | OFF | 1         | 2         | 3         |
|-------------------|-----|-----------|-----------|-----------|
| AMMETER READING   | OFF | PHASE 1   | PHASE 2   | PHASE 3   |
| VOLTMETER READING | OFF | PH 1 TO 2 | PH 2 TO 3 | PH 3 TO 1 |

- VI. CATERPILLAR REFERENCE DRAWINGS
- 4W8001 - CHANGE 09 INSTRUCTIONS

| Ref.                                                                      | Part number | Description | Qty | Code | Group page |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|------------|
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