

# CATERPILLAR SR4

5KA / SEBP1532

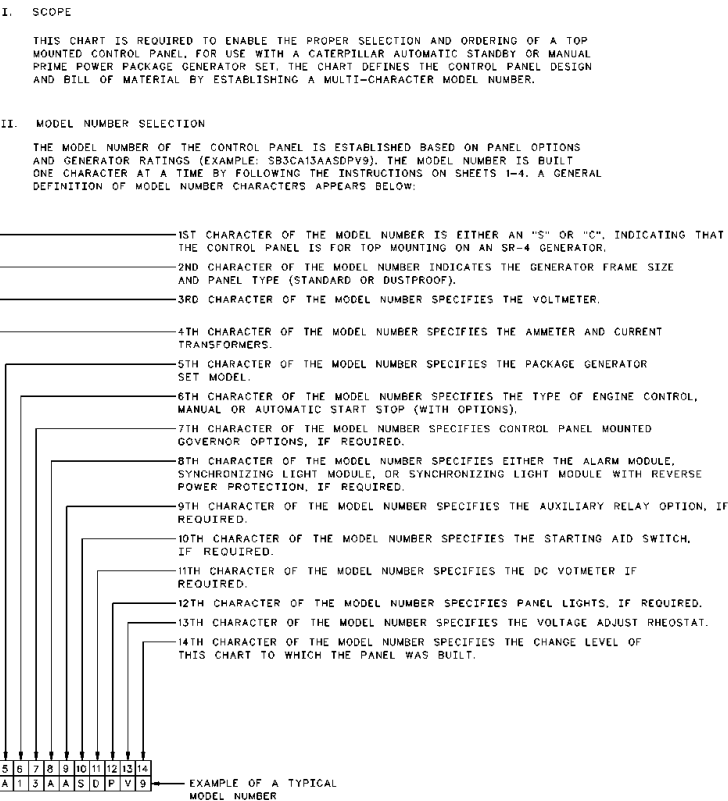
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4W-8000 CHART-CONTROL PANEL

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

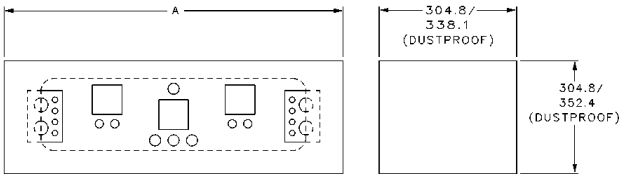
- III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER
- 1—THE FIRST CHARACTER OF THE MODEL NUMBER INDICATES THAT THE CONTROL PANEL IS A STANDARD PANEL, OR A CANADIAN STANDARD ASSOC. APPROVED PANEL, FOR TOP MOUNTING ON A SR-4 GENERATOR.  
S=STANDARD  
C=CSA APPROVED PANEL (INCLUDES 9Y4335 FILM AND 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<br>680/800   | 698.5           | —         | 7E6485 | 4P5813 | 7E6488      | 7E6489 |
| C | DUSTPROOF  | 360                  | 619.1           | 4W9904    | 4P3465 | —      | 7E6486      | 7E6487 |
| D | DUSTPROOF  | 440/580<br>680/800   | 714.4           | 7W0202    | 7E6484 | —      | 7E6488      | 7E6489 |

FIGURE 1



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

MODEL SB3CA13AASDPV9

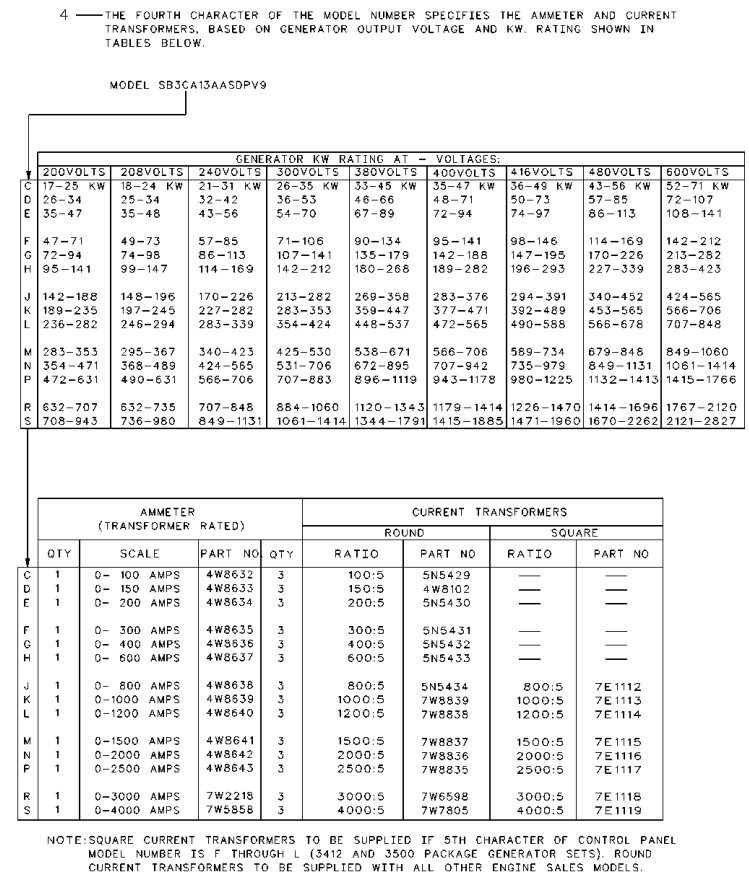
|   | GENERATOR OPERATING VOLTAGE | AC VOLTMETER |          | FREQUENCY METER RESISTOR |  |
|---|-----------------------------|--------------|----------|--------------------------|--|
|   |                             | SCALE        | PART NO. | PART NO.                 |  |
| 2 | 0-240 VAC                   | 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  |
| 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>A.S. |
|---------------------|-----------------------------------------|----------------------------|------------------------|-------------------|-----------------|
|                     |                                         |                            | 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 |
|---------------------------------------------------------------------------|-------------|-------------|-----|------|-------|
| Parts list rows are not synced on this VPS for SEBP1532/SEBP15320004 yet. |             |             |     |      |       |

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 OPTION                                          | GOVERNOR TYPE                      | GOV SW | GOVERNOR GP-ELECTRONIC | GOVERNOR FUSE | FILM   |
|---|----------------------------------------------------------|------------------------------------|--------|------------------------|---------------|--------|
| X | NONE, OR SHIPPED LOOSE CUSTOMER INSTALLED 2301A GOVERNOR | CAT HYDRA-MECH, 2301A LOAD SHARING | —      | —                      | —             | —      |
| 1 | GOVERNOR SWITCH GP                                       | CAT HYDRA-MECH PSG,3161            | 4W8181 | —                      | —             | —      |
| 2 | 2301 GOVERNOR (W/PRE-REGULATOR)                          | 2301 SPEED SENSING                 | —      | 4W8185                 | 7T0037        | 7E7845 |
| 3 | 2301 GOVERNOR                                            | 2301 SPEED SENSING                 | —      | 4W8180                 | 7T0037        | 7E7845 |
| 4 | 1724/8290 GOVERNOR (F/U/W 3114 AND 3116 ENGINES)         | ELECTRONIC SPEED SENSING           | —      | 7E1233                 | 3K8782        | 9Y9782 |
| 5 | 1724/8290 GOVERNOR                                       | ELECTRONIC SPEED SENSING           | —      | 7E1232                 | 3K8782        | 9Y9782 |
| 6 | 2301A GOVERNOR                                           | 2301A SPEED 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 PART NO. | CANADIAN STANDARD 600 VAC MODULE 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 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

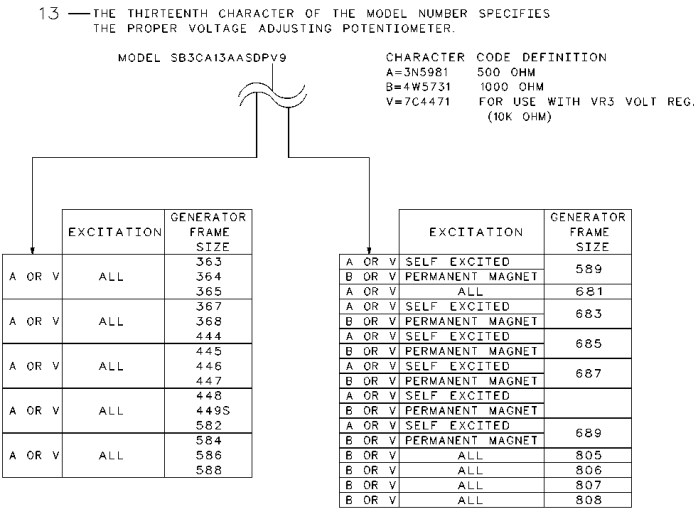
| QTY | PANEL LIGHTS GROUP | PLUG BUTTON  |
|-----|--------------------|--------------|
| X 1 | NOT REQUIRED       | 5P7509       |
|     |                    | 5P4935       |
| P 1 | 4W8183             | NOT REQUIRED |

| 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



14 — THE FOURTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE CHANGE LEVEL OF THIS CHART TO WHICH THE PANEL WAS BUILT.

MODEL SB3CA13AASDPV9

FOR EXAMPLE THIS MEANS CHANGE LEVEL 9. REFER TO DRAWING TITLE BLOCK &/OR CONTROL PANEL IDENTIFICATION TAG FOR ACTUAL CHANGE LEVEL.

| 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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