








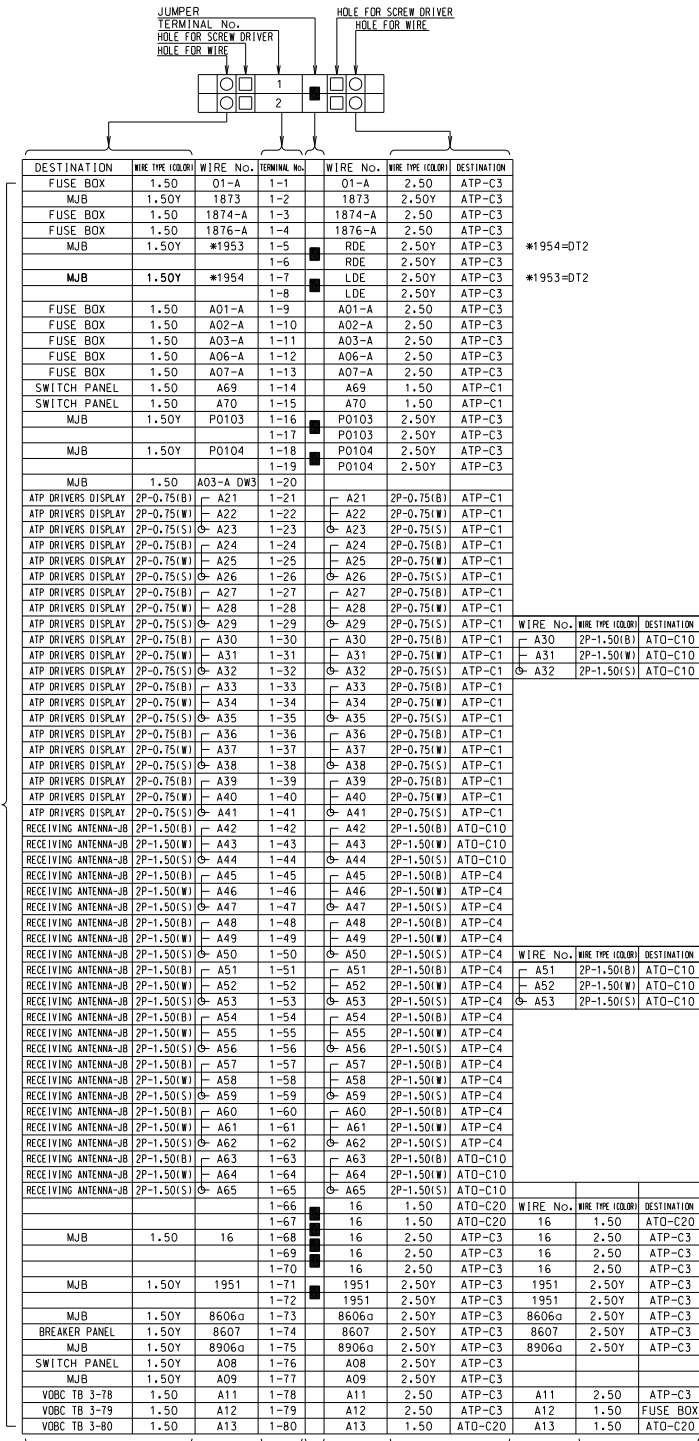


| ATC-VOBC UNIT |          |                   |   |
|---------------|----------|-------------------|---|
| P8A           |          |                   |   |
| PIN No.       | WIRE No. | DESTINATION       |   |
| A             | 100      | ATP-VOBC1(TB3-34) | SH-  |
| B             | V2041    | ATP-VOBC1(TB3-32) | BK-  |
| C             | V2042    | ATP-VOBC1(TB3-33) | WH-  |
| D             | -        | -                 |   |
| E             | 100      | ATP-VOBC1(TB3-22) | SH-  |
| F             | V2012    | ATP-VOBC1(TB3-21) | BK-  |
| G             | V2011    | ATP-VOBC1(TB3-20) | WH-  |
| H             | -        | -                 |   |
| I             | T12      |                   |      |
| J             | T12      |                   |      |

|             |          |       |         |                   |
|-------------|----------|-------|---------|-------------------|
| KCRC WR     | DT2      | A     | 1       | B902              |
| KCRC WR     | DT1      | A     | 1       | B902              |
| APPLIED CAR | CAR TYPE | GROUP | PCS/CAR | KS DWG. GROUP No. |

|     |      |    |     |     |                            |     |      |    |     |   |  |  |                                   |                  |  |
|-----|------|----|-----|-----|----------------------------|-----|------|----|-----|---|--|--|-----------------------------------|------------------|--|
|     |      |    |     |     | DESIGNED BY<br>NIL         |     |      |    |     | <div><b>KCR</b><br/>九廣鐵路</div> <div>運輸部<br/>Transport Division</div> | TITLE<br>SP1900 ELECTRIC MULTIPLE UNITS<br>CONNECTION DIAGRAM<br>VOBC CONNECTOR PIN ASSIGNMENT<br>DT1, DT2 CAR (WR ONLY) | SCALE<br>NTS @ A1                      |                                   |                  |  |
|     |      |    |     |     | DRAWN BY<br>SRD            |     |      |    |     |   |  | ORIGINATOR<br>KS                       | ORIGINATOR REFERENCE<br>1-UB04177 | ORD REF REV<br>g |  |
|     |      |    |     |     | CHECKED BY<br>K. Y. CHEUNG |     |      |    |     |   |  | DRAWING NUMBER<br>SP1900AB/XK/RR/M6099 |                                   |                  |  |
|     |      |    |     |     | IN CHARGE<br>C. C. HON     |     |      |    |     |   |  | REV<br>0                               |                                   |                  |  |
|     |      |    |     |     | DATE<br>26JAN2007          |     |      |    |     |   |  | SHEET NO<br>1                          |                                   |                  |  |
| REV | DATE | BY | SUB | APP | DESCRIPTION                | REV | DATE | BY | SUB | APP   | DESCRIPTION  |  |                                   |                  |  |

| DESTINATION          | WIRE(COL)  | WIRE No. | TB No. | WIRE No. | WIRE(COL) | DESTINATION |
|----------------------|------------|----------|--------|----------|-----------|-------------|
| FUSE BOX             | 1.50       | 01-A     | 1-1    |          |           |             |
| MJB                  | 1.50Y      | 1873     | 1-2    |          |           |             |
| FUSE BOX             | 1.50       | 1874-A   | 1-3    |          |           |             |
| FUSE BOX             | 1.50       | 1876-A   | 1-4    |          |           |             |
| MJB                  | 1.50Y      | *1953    | 1-5    |          |           |             |
|                      |            |          | 1-6    |          |           |             |
| MJB                  | 1.50Y      | *1954    | 1-7    |          |           |             |
|                      |            |          | 1-8    |          |           |             |
| FUSE BOX             | 1.50       | A01-A    | 1-9    |          |           |             |
| FUSE BOX             | 1.50       | A02-A    | 1-10   |          |           |             |
| FUSE BOX             | 1.50       | A03-A    | 1-11   |          |           |             |
| FUSE BOX             | 1.50       | A06-A    | 1-12   |          |           |             |
| FUSE BOX             | 1.50       | A07-A    | 1-13   |          |           |             |
| SWITCH PANEL         | 1.50       | A69      | 1-14   |          |           |             |
| SWITCH PANEL         | 1.50       | A70      | 1-15   |          |           |             |
| MJB                  | 1.50Y      | P0103    | 1-16   |          |           |             |
|                      |            |          | 1-17   |          |           |             |
| MJB                  | 1.50Y      | P0104    | 1-18   |          |           |             |
|                      |            |          | 1-19   |          |           |             |
|                      |            |          | 1-20   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A21      | 1-21   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A22      | 1-22   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A23      | 1-23   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A24      | 1-24   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A25      | 1-25   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A26      | 1-26   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A27      | 1-27   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A28      | 1-28   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A29      | 1-29   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A30      | 1-30   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A31      | 1-31   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A32      | 1-32   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A33      | 1-33   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A34      | 1-34   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A35      | 1-35   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A36      | 1-36   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A37      | 1-37   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A38      | 1-38   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(B) | A39      | 1-39   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(W) | A40      | 1-40   |          |           |             |
| ATP DRIVERS DISPLAY  | 2P-0.75(S) | A41      | 1-41   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A42      | 1-42   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A43      | 1-43   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A44      | 1-44   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A45      | 1-45   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A46      | 1-46   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A47      | 1-47   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A48      | 1-48   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A49      | 1-49   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A50      | 1-50   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A51      | 1-51   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A52      | 1-52   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A53      | 1-53   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A54      | 1-54   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A55      | 1-55   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A56      | 1-56   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A57      | 1-57   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A58      | 1-58   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A59      | 1-59   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A60      | 1-60   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A61      | 1-61   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A62      | 1-62   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(B) | A63      | 1-63   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(W) | A64      | 1-64   |          |           |             |
| RECEIVING ANTENNA-JB | 2P-1.50(S) | A65      | 1-65   |          |           |             |
|                      |            |          | 1-66   |          |           |             |
|                      |            |          | 1-67   |          |           |             |
| MJB                  | 1.50       | 16       | 1-68   |          |           |             |
|                      |            |          | 1-69   |          |           |             |
| MJB                  | 1.50Y      | 1951     | 1-70   |          |           |             |
|                      |            |          | 1-71   |          |           |             |
| MJB                  | 1.50Y      | B606a    | 1-73   |          |           |             |
| BREAKER PANEL        | 1.50Y      | B607     | 1-74   |          |           |             |
| MJB                  | 1.50Y      | B906a    | 1-75   |          |           |             |
| SWITCH PANEL         | 1.50Y      | A08      | 1-76   |          |           |             |
|                      |            |          | 1-77   |          |           |             |
| VOBC TB 3-78         | 1.50       | A11      | 1-78   |          |           |             |
| VOBC TB 3-79         | 1.50       | A12      | 1-79   |          |           |             |
| VOBC TB 3-80         | 1.50       | A13      | 1-80   |          |           |             |
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ATP-VOBC TB1

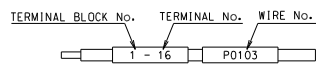
EXPLANATION OF WIRE TYPE

|                |         |
|----------------|---------|
| 100G0111-0.75  | 0.75    |
| 100G0111-1.50  | 1.50    |
| 100G0111-1.50Y | 1.50Y   |
| 100G1121-0.75  | 2P-0.75 |
| 100G1131-1.00  | 3P-1.00 |
| 100G1121-1.50  | 2P-1.50 |
| 100G1131-1.50  | 3P-1.50 |

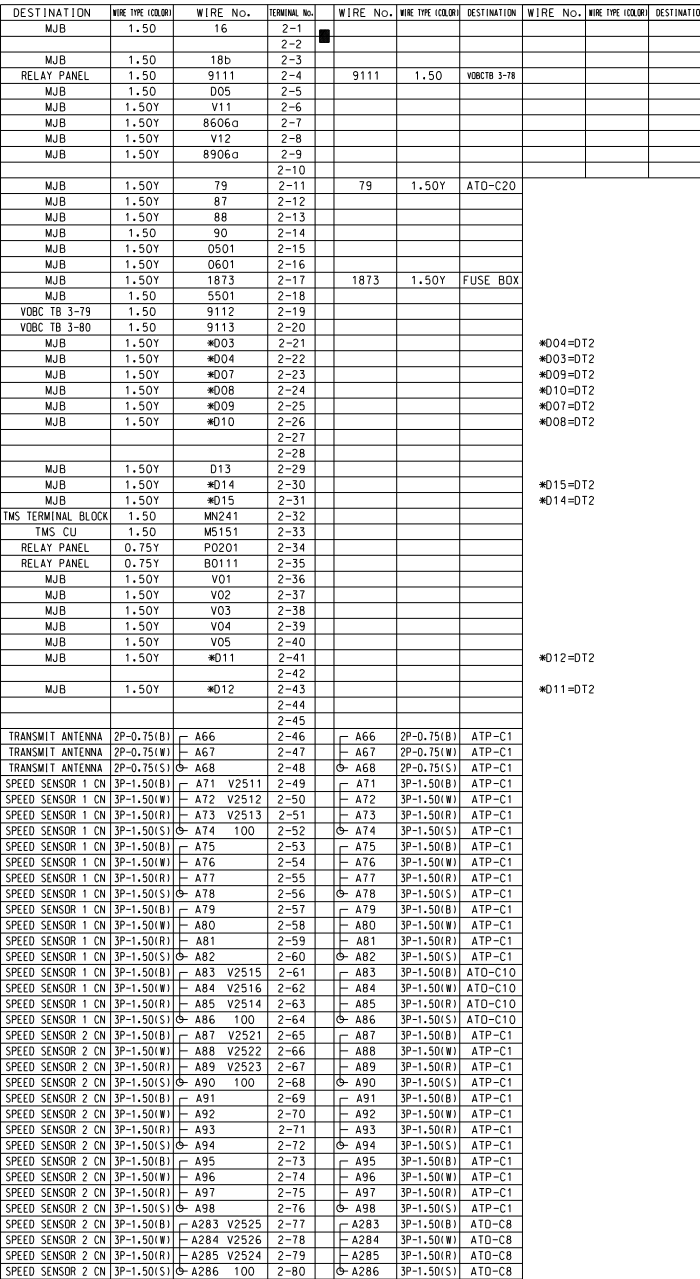
ATP-VOBC TB2

NOTES

1. AT TERMINAL, DOUBLE LING MARK SHOULD BE INSTALLED TO WIRE LIKE BELOW.



2. A, B etc. SHOW CONDUCTORS S SHOWS SHIELD WIRE



ATP-VOBC TB3

3. COLOR

- (B)...BLACK / BK
- (W)...WHITE / WH
- (R)...RED / RD
- (S)...SHIELD / S

4. INSULATED WIRES SHOULD BE TREATED AS SPARE WIRES

| REV | DATE    | BY  | SUB  | APP  | DESCRIPTION | REV | DATE | BY | SUB | APP | DESCRIPTION |
|-----|---------|-----|------|------|-------------|-----|------|----|-----|-----|-------------|
| 1   | 26JAN07 | SRD | K.Y. | C.C. | FIRST ISSUE |     |      |    |     |     |             |

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| DESIGNED BY | NIL         |
| DRAWN BY    | SRD         |
| CHECKED BY  | K.Y. CHEUNG |
| IN CHARGE   | C. C. HON   |
| DATE        | 26JAN2007   |



TITLE  
SP1900 ELECTRIC MULTIPLE UNITS  
CONNECTION DIAGRAM  
ATP TERMINAL BLOCK ASSIGNMENT  
DT1, DT2 CAR (ER ONLY)

|                      |                      |
|----------------------|----------------------|
| SCALE                | NTS @ A1             |
| ORIGINATOR           | KS                   |
| ORIGINATOR REFERENCE | 1-UB03790-01         |
| DRAWING NUMBER       | SP1900AB/XK/RR/M6097 |
| RAILWAY              | ER                   |
| LOCATION             | HTL                  |
| STAGE                | Z                    |
| SHEET NO             | 1                    |