ATC-VOBC UNIT			
P2A			
PIN No.	WIRE No.	DESTINATION	
A	V11	ATP-VOBC(TB2-6)	
B	87	ATP-VOBC(TB2-12)	
C	V1103	ATP-VOBC(TB3-48)	
D	–	-	
E	0212	ATP-VOBC(TB3-62)	BK
F	0312	ATP-VOBC(TB3-63)	WH
G	100	ATP-VOBC(TB3-64)	SHI
H	V0603	ATP-VOBC(TB3-8)	
J	V09	ATP-VOBC(TB3-3)	
K	RDE1	ATP-VOBC(TB2-23)	
L	LDE1	ATP-VOBC(TB2-25)	
M	–	-	
N	V1105	ATP-VOBC(TB3-50)	
P	V1204	ATP-VOBC(TB3-54)	
R	D13	ATP-VOBC(TB2-29)	
S	LDR	ATP-VOBC(TB2-22)	
T	RDR	ATP-VOBC(TB2-21)	
U	V06	ATP-VOBC(TB3-1)	
V	1873	ATP-VOBC(TB2-17)	
W	0501	ATP-VOBC(TB2-15)	
X	V03	ATP-VOBC(TB2-38)	
Z	V04	ATP-VOBC(TB2-39)	
a	P0201	ATP-VOBC(TB2-34)	
b	D05	ATP-VOBC(TB2-5)	
c	V15	ATP-VOBC(TB3-5)	
d	RD01	ATP-VOBC(TB2-30)	
e	LD01	ATP-VOBC(TB2-31)	
f	18b	ATP-VOBC(TB2-3)	
g	V10	ATP-VOBC(TB3-4)	
h	LD0	ATP-VOBC(TB2-44)	
j	V1102	ATP-VOBC(TB3-47)	
k	V1201	ATP-VOBC(TB3-51)	
m	–	-	
n	9112	ATP-VOBC(TB2-19)	
p	9113	ATP-VOBC(TB2-20)	
r	–	-	
s	100	ATP-VOBC(TB3-71)	

ATC-VOBC UNIT			
P3A			
PIN No.	WIRE No.	DESTINATION	
A	V12	ATP-VOBC(TB2-8)	
B	88	ATP-VOBC(TB2-13)	
C	V1203	ATP-VOBC(TB3-53)	
D	–	-	
E	V1202	ATP-VOBC(TB3-52)	
F	V1101	ATP-VOBC(TB3-46)	
G	–	-	
H	V1001	ATP-VOBC(TB3-9)	
J	V05	ATP-VOBC(TB2-40)	
K	RDE2	ATP-VOBC(TB2-24)	
L	LDE2	ATP-VOBC(TB2-26)	
M	V21	ATP-VOBC(TB3-7)	
N	V1104	ATP-VOBC(TB3-49)	
P	V1205	ATP-VOBC(TB3-55)	
R	V2243	ATP-VOBC(TB3-44)	RD
S	100	ATP-VOBC(TB3-45)	SHI
T	V2242	ATP-VOBC(TB3-43)	WH
U	V2241	ATP-VOBC(TB3-42)	BK
V	V08	ATP-VOBC(TB3-2)	
W	0601	ATP-VOBC(TB2-16)	
X	V01	ATP-VOBC(TB2-36)	
Z	V02	ATP-VOBC(TB2-37)	
a	B0111	ATP-VOBC(TB2-35)	
b	D05	ATP-VOBC(TB2-5)	
c	–	-	
d	79	ATP-VOBC(TB2-11)	
e	–	-	
f	18b	ATP-VOBC(TB2-3)	
g	V18	ATP-VOBC(TB3-6)	
h	RD0	ATP-VOBC(TB2-42)	
j	V16	ATP-VOBC(TB3-14)	BK
k	V17	ATP-VOBC(TB3-15)	WH
m	100	ATP-VOBC(TB3-16)	SHI
n	16	ATP-VOBC(TB2-1)	
p	16	ATP-VOBC(TB2-2)	
r	–	-	
s	–	-	

ATC-VOBC UNIT			
P4A			
PIN No.	WIRE No.	DESTINATION	
A	V1620	ATP-VOBC(TB3-10)	
B	V1621	ATP-VOBC(TB3-12)	
C	90	ATP-VOBC(TB2-14)	
D	–	-	
E	–	-	
F	–	-	
G	–	-	
H	–	-	
J	5501	ATP-VOBC(TB2-18)	
K	–	-	
L	–	-	
M	–	-	
N	–	-	
P	V1601	ATP-VOBC(TB3-17)	BK
R	V1701	ATP-VOBC(TB3-18)	WH
S	100	ATP-VOBC(TB3-19)	SHI
T	–	-	
U	M5121	ATP-VOBC(TB3-65)	BK
V	M5122	ATP-VOBC(TB3-66)	WH
W	M5100	ATP-VOBC(TB3-67)	RD
X	100	ATP-VOBC(TB3-68)	SHI
Z	–	-	
a	T11		
b	T11		
c	–	-	
d	–	-	
e	–	-	
f	–	-	
g	–	-	
h	–	-	
j	–	-	
k	V2031	ATP-VOBC(TB3-26)	BK
m	V2032	ATP-VOBC(TB3-27)	WH
n	100	ATP-VOBC(TB3-28)	SHI
p	V2033	ATP-VOBC(TB3-29)	BK
r	V2034	ATP-VOBC(TB3-30)	WH
s	100	ATP-VOBC(TB3-31)	SHI

ATC-VOBC UNIT			
P6A			
PIN No.	WIRE No.	DESTINATION	
A	100	ATP-VOBC(TB2-64)	SHI
B	V2515	ATP-VOBC(TB2-61)	WH
C	V2516	ATP-VOBC(TB2-62)	RD
D	V2514	ATP-VOBC(TB2-63)	BK
E	100	ATP-VOBC(TB2-52)	SHI
F	V2512	ATP-VOBC(TB2-50)	WH
G	V2513	ATP-VOBC(TB2-51)	RD
H	V2511	ATP-VOBC(TB2-49)	BK
I	T12		
J	T12		

ATC-VOBC UNIT			
P7A			
PIN No.	WIRE No.	DESTINATION	
A	100	ATP-VOBC(TB2-80)	SHI
B	V2525	ATP-VOBC(TB2-77)	WH
C	V2526	ATP-VOBC(TB2-78)	RD
D	V2524	ATP-VOBC(TB2-79)	BK
E	100	ATP-VOBC(TB2-68)	SHI
F	V2522	ATP-VOBC(TB2-66)	WH
G	V2523	ATP-VOBC(TB2-67)	RD
H	V2521	ATP-VOBC(TB2-65)	BK
I	T12		
J	T12		

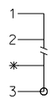
ATC-VOBC UNIT			
P8A			
PIN No.	WIRE No.	DESTINATION	
A	100	ATP-VOBC(TB3-34)	SHI
B	V2041	ATP-VOBC(TB3-32)	BK
C	V2042	ATP-VOBC(TB3-33)	WH
D	–	-	
E	100	ATP-VOBC(TB3-22)	SHI
F	V2012	ATP-VOBC(TB3-21)	WH
G	V2011	ATP-VOBC(TB3-20)	BK
H	–	-	
I	T12		
J	T12		

ATC-VOBC UNIT			
P9A			
PIN No.	WIRE No.	DESTINATION	
A	100	ATP-VOBC(TB3-37)	SHI
B	V2051	ATP-VOBC(TB3-35)	BK
C	V2052	ATP-VOBC(TB3-36)	WH
D	–	-	
E	100	ATP-VOBC(TB3-25)	SHI
F	V2022	ATP-VOBC(TB3-24)	WH
G	V2021	ATP-VOBC(TB3-23)	BK
H	–	-	
I	T12		
J	T12		

ATC-VOBC UNIT			
PDCU A			
PIN No.	WIRE No.	DESTINATION	
A	9111	ATP-VOBC(TB2-4)	
B	16	ATP-VOBC(TB2-1)	
C	100	ATP-VOBC(TB3-71)	

NOTES

1. INDICATES SHIELDED CABLE, 1,2,...,* ARE CONDUCTORS AND 3 IS SHIELD



2. INDICATES SHORT JUMPER ON CONNECTOR

COLOR ABBREVIATION

BK	BLACK
WH	WHITE
RD	RED

ABBREVIATION

SHI	SHIELD

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

REV	DATE	BY	SUB	APP	DESCRIPTION
1	-------	---	---	---	- - -
2	-------	---	---	---	- - -
3	-------	---	---	---	- - -
4	-------	---	---	---	- - -
5	-------	---	---	---	- - -
6	-------	---	---	---	- - -
0	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE

REV	DATE	BY	SUB	APP	DESCRIPTION
1	-------	---	---	---	- - -
2	-------	---	---	---	- - -
3	-------	---	---	---	- - -
4	-------	---	---	---	- - -
5	-------	---	---	---	- - -
6	-------	---	---	---	- - -

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

KCR 九廣鐵路 運輸部 Transport Division

TITLE

SP1900 ELECTRIC MULTIPLE UNITS
CONNECTION DIAGRAM

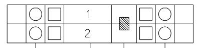
VOBC CONNECTOR PIN ASSIGNMENT
DT1, DT2 CAR (WR ONLY)

SCALE	NTS @ A1	
ORIGINATOR	ORIGINATOR REFERENCE	DWG REF REV
KS	1-UB04177	g
DRAWING NUMBER		REV
SP1900AB/XK/RR/M6099		0

RAILWAY	LOCATION	STAGE	SHEET NO
ER	HTL	Z	1

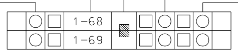
FULL SIZE A1

$USRF$
PLOT DRV:$PLTDRVL$
PRINTED BY:$USER$
FILENAME: $FILE$
$DATE$ $TIME$



(BLUE)

DESTINATION	WIRE(COL)	WIRE No.	TB No.	WIRE No.	WIRE(COL)	DESTINATION	WIRE No.	WIRE(COL)	DESTINATION	Note
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							*1954=DT2
			1-6							
MJB	1.50Y	*1954	1-7							*1953=DT2
			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							
			1-70							
MJB	1.50Y	1951	1-71							
			1-72							
MJB	1.50Y	8606a	1-73							
BREAKER PANEL	1.50Y	8607	1-74							
MJB	1.50Y	8906a	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	A12	1.50	FUSE BOX				
VOBC TB 3-80	1.50	A13	1-80							



ATP-VOBC TB1

(GREY) 2-1 to 2-40; (BLUE) 2-41 to 2-80

DESTINATION	WIRE(COL)	WIRE No.	TB No.	WIRE No.	WIRE(COL)	DESTINATION	WIRE No.	WIRE(COL)	DESTINATION	Note
MJB	1.50	16	2-1	16	1.50	VOBC-P3A	16	1.50	VOBC-PDCUA	
			2-2	16	1.50	VOBC-P3A				
MJB	1.50Y	18b	2-3	18b	1.50Y	VOBC-P2A	18b	1.50Y	VOBC-P3A	
RELAY PANEL	1.50	9111	2-4	9111	1.50	VOBCTB 3-78	9111	1.50	VOBC-PDCUA	
MJB	1.50Y	D05	2-5	D05	1.50Y	VOBC-P2A	D05	1.50Y	VOBC-P3A	
MJB	1.50Y	V11	2-6	V11	1.50Y	VOBC-P2A				
MJB	1.50Y	8606a	2-7							
MJB	1.50Y	V12	2-8	V12	1.50Y	VOBC-P3A				
MJB	1.50Y	8906a	2-9							
			2-10							
MJB	1.50Y	79	2-11	79	1.50Y	VOBC-P3A				
MJB	1.50Y	87	2-12	87	1.50Y	VOBC-P2A				
MJB	1.50Y	88	2-13	88	1.50Y	VOBC-P3A				
MJB	1.50	90	2-14	90	1.50	VOBC-P4A				
MJB	1.50Y	0501	2-15	0501	1.50Y	VOBC-P2A				
MJB	1.50Y	0601	2-16	0601	1.50Y	VOBC-P3A				
MJB	1.50Y	1873	2-17	1873	1.50Y	VOBC-P2A				
MJB	1.50	5501	2-18	5501	1.50	VOBC-P4A				
VOBC TB 3-79	1.50	9112	2-19	9112	1.50Y	VOBC-P2A				
VOBC TB 3-80	1.50	9113	2-20	9113	1.50	VOBC-P2A				
MJB	1.50Y	*D03	2-21	RDR	1.50Y	VOBC-P2A				*D04=DT2
MJB	1.50Y	*D04	2-22	LDR	1.50Y	VOBC-P2A				*D03=DT2
MJB	1.50Y	*D07	2-23	RDE1	1.50Y	VOBC-P2A				*D09=DT2
MJB	1.50Y	*D08	2-24	RDE2	1.50Y	VOBC-P3A				*D10=DT2
MJB	1.50Y	*D09	2-25	LDE1	1.50Y	VOBC-P2A				*D07=DT2
MJB	1.50Y	*D10	2-26	LDE2	1.50Y	VOBC-P3A				*D08=DT2
			2-27							
			2-28							
MJB	1.50Y	D13	2-29	D13	1.50Y	VOBC-P2A				
MJB	1.50Y	*D14	2-30	RDO1	1.50Y	VOBC-P2A				*D15=DT2
MJB	1.50Y	*D15	2-31	LDO1	1.50Y	VOBC-P2A				*D14=DT2
TMS TERMINAL BLOCK	1.50	MN241	2-32	MN241	1.50	EB Panel				
TMS CU	1.50	M5151	2-33	M5151	1.50	EB Panel				
RELAY PANEL	0.75Y	P0201	2-34	P0201	1.50Y	VOBC-P2A				
RELAY PANEL	0.75Y	B0111	2-35	B0111	1.50Y	VOBC-P3A				
MJB	1.50Y	V01	2-36	V01	1.50Y	VOBC-P3A				
MJB	1.50Y	V02	2-37	V02	1.50Y	VOBC-P3A				
MJB	1.50Y	V03	2-38	V03	1.50Y	VOBC-P2A				
MJB	1.50Y	V04	2-39	V04	1.50Y	VOBC-P2A				
MJB	1.50Y	V05	2-40	V05	1.50	VOBC-P3A				
MJB	1.50Y	*D11	2-41							*D12=DT2
VOBC-P3A	1.50Y	RDO	2-42							
MJB	1.50Y	*D12	2-43							*D11=DT2
VOBC-P2A	1.50Y	LDO	2-44							
			2-45							
TRANSMIT ANTENNA	2P-1.50(B)	A66	2-46							
TRANSMIT ANTENNA	2P-1.50(W)	A67	2-47							
TRANSMIT ANTENNA	2P-1.50(S)	A68	2-48							
SPEED SENSOR 1 CN	3P-1.50(B)	A71 V2511	2-49	V2511	3P-1.50(B)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(W)	A72 V2512	2-50	V2512	3P-1.50(W)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(R)	A73 V2513	2-51	V2513	3P-1.50(R)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(S)	A74 100	2-52	100	3P-1.50(S)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(B)	A75	2-53							
SPEED SENSOR 1 CN	3P-1.50(W)	A76	2-54							
SPEED SENSOR 1 CN	3P-1.50(R)	A77	2-55							
SPEED SENSOR 1 CN	3P-1.50(S)	A78	2-56							
SPEED SENSOR 1 CN	3P-1.50(B)	A79	2-57							
SPEED SENSOR 1 CN	3P-1.50(W)	A80	2-58							
SPEED SENSOR 1 CN	3P-1.50(R)	A81	2-59							
SPEED SENSOR 1 CN	3P-1.50(S)	A82	2-60							
SPEED SENSOR 1 CN	3P-1.50(W)	A83 V2515	2-61	V2515	3P-1.50(W)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(R)	A84 V2516	2-62	V2516	3P-1.50(R)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(B)	A85 V2514	2-63	V2514	3P-1.50(B)	VOBC-P6A				
SPEED SENSOR 1 CN	3P-1.50(S)	A86 100	2-64	100	3P-1.50(S)	VOBC-P6A				
SPEED SENSOR 2 CN	3P-1.50(B)	A87 V2521	2-65	V2521	3P-1.50(B)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(W)	A88 V2522	2-66	V2522	3P-1.50(W)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(R)	A89 V2523	2-67	V2523	3P-1.50(R)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(S)	A90 100	2-68	100	3P-1.50(S)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(B)	A91	2-69							
SPEED SENSOR 2 CN	3P-1.50(W)	A92	2-70							
SPEED SENSOR 2 CN	3P-1.50(R)	A93	2-71							
SPEED SENSOR 2 CN	3P-1.50(S)	A94	2-72							
SPEED SENSOR 2 CN	3P-1.50(B)	A95	2-73							
SPEED SENSOR 2 CN	3P-1.50(W)	A96	2-74							
SPEED SENSOR 2 CN	3P-1.50(R)	A97	2-75							
SPEED SENSOR 2 CN	3P-1.50(S)	A98	2-76							
SPEED SENSOR 2 CN	3P-1.50(W)	A283 V2525	2-77	V2525	3P-1.50(W)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(R)	A284 V2526	2-78	V2526	3P-1.50(R)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(B)	A285 V2524	2-79	V2524	3P-1.50(B)	VOBC-P7A				
SPEED SENSOR 2 CN	3P-1.50(S)	A286 100	2-80	100	3P-1.50(S)	VOBC-P7A				

ATP-VOBC TB2

(GREY)

DESTINATION	WIRE(COL)	WIRE No.	TB No.	WIRE No.	WIRE(COL)	DESTINATION	WIRE No.	WIRE(COL)	DESTINATION
MJB	1.50	V06	3-1	V06	1.50	VOBC-P2A			
MJB	1.50Y	V08	3-2	V08	1.50Y	VOBC-P3A			
MJB	1.50	V09	3-3	V09	1.50Y	VOBC-P2A			
MJB	1.50	V10	3-4	V10	1.50	VOBC-P2A			
MJB	1.50Y	V15	3-5	V15	1.50Y	VOBC-P2A			
MJB	1.50	V18	3-6	V18	1.50	VOBC-P3A			
MJB	1.50Y	V21	3-7	V21	1.50Y	VOBC-P3A			
RELAY PANEL	1.50	V0603	3-8	V0603	1.50	VOBC-P2A			
RELAY PANEL	0.75	V1001	3-9	V1001	1.50	VOBC-P3A			
ATC DRIVERS DISPLAY	1.50	V1620	3-10	V1620	1.50	VOBC-P4A			
ATC DRIVERS DISPLAY	1.50	V1620	3-11						
ATC DRIVERS DISPLAY	1.50	V1621	3-12	V1621	1.50	VOBC-P4A			
ATC DRIVERS DISPLAY	1.50	V1621	3-13						
MJB	2P-1.50(B)	V16	3-14	V16	2P-1.50(B)	VOBC-P3A			
MJB	2P-1.50(W)	V17	3-15	V17	2P-1.50(W)	VOBC-P3A			
MJB	2P-1.50(S)	100	3-16	100	2P-1.50(S)	VOBC-P3A			
ATC DRIVERS DISPLAY	2P-1.50(B)	V1601	3-17	V1601	2P-1.50(B)	VOBC-P4A			
ATC DRIVERS DISPLAY	2P-1.50(W)	V1701	3-18	V1701	2P-1.50(W)	VOBC-P4A			
ATC DRIVERS DISPLAY	2P-1.50(S)	100	3-19	100	2P-1.50(S)	VOBC-P4A			
RX ANTENNA 1	2P-1.50(B)	V2011	3-20	V2011	2P-1.50(B)	VOBC-P8A			
RX ANTENNA 1	2P-1.50(W)	V2012	3-21	V2012	2P-1.50(W)	VOBC-P8A			
RX ANTENNA 1	2P-1.50(S)	100	3-22	100	2P-1.50(S)	VOBC-P8A			
RX ANTENNA 2	2P-1.50(B)	V2021	3-23	V2021	2P-1.50(B)	VOBC-P9A			
RX ANTENNA 2	2P-1.50(W)	V2022	3-24	V2022	2P-1.50(W)	VOBC-P9A			
RX ANTENNA 2	2P-1.50(S)	100	3-25	100	2P-1.50(S)	VOBC-P9A			
DOCKING ANTENNA 1	2P-0.75(B)	V2031	3-26	V2031	2P-1.50(B)	VOBC-P4A			
DOCKING ANTENNA 1	2P-0.75(W)	V2032	3-27	V2032	2P-1.50(W)	VOBC-P4A			
DOCKING ANTENNA 1	2P-0.75(S)	100	3-28	100	2P-1.50(S)	VOBC-P4A			
DOCKING ANTENNA 2	2P-0.75(B)	V2033	3-29	V2033	2P-1.50(B)	VOBC-P4A			
DOCKING ANTENNA 2	2P-0.75(W)	V2034	3-30	V2034	2P-1.50(W)	VOBC-P4A			
DOCKING ANTENNA 2	2P-0.75(S)	100	3-31	100	2P-1.50(S)	VOBC-P4A			
TX ANTENNA 1	2P-1.50(B)	V2041	3-32	V2041	2P-1.50(B)	VOBC-P8A			
TX ANTENNA 1	2P-1.50(W)	V2042	3-33	V2042	2P-1.50(W)	VOBC-P8A			
TX ANTENNA 1	2P-1.50(S)	100	3-34	100	2P-1.50(S)	VOBC-P8A			
TX ANTENNA 2	2P-1.50(B)	V2051	3-35	V2051	2P-1.50(B)	VOBC-P9A			
TX ANTENNA 2	2P-1.50(W)	V2052	3-36	V2052	2P-1.50(W)	VOBC-P9A			
TX ANTENNA 2	2P-1.50(S)	100	3-37	100	2P-1.50(S)	VOBC-P9A			
			3-38						
			3-39						
			3-40						
			3-41						
PROXIMITY SENSOR	3P-1.50(B)	V2241	3-42	V2241	3P-1.50(B)	VOBC-P3A			
PROXIMITY SENSOR	3P-1.50(W)	V2242	3-43	V2242	3P-1.50(W)	VOBC-P3A			
PROXIMITY SENSOR	3P-1.50(R)	V2243	3-44	V2243	3P-1.50(R)	VOBC-P3A			
PROXIMITY SENSOR	3P-1.50(S)	100	3-45	100	3P-1.50(S)	VOBC-P3A			
EB Panel	0.75	V1101	3-46	V1101	1.50	VOBC-P3A			
EB Panel	0.75	V1102	3-47	V1102	1.50	VOBC-P2A			
EB Panel	0.75	V1103	3-48	V1103	1.50	VOBC-P2A			
EB Panel	0.75	V1104	3-49	V1104	1.50	VOBC-P3A			
EB Panel	0.75	V1105	3-50	V1105	1.50	VOBC-P2A			
EB Panel	0.75	V1201	3-51	V1201	1.50	VOBC-P2A			
EB Panel	0.75	V1202	3-52	V1202	1.50	VOBC-P3A			
EB Panel	0.75	V1203	3-53	V1203	1.50	VOBC-P3A			
EB Panel	0.75	V1204	3-54	V1204	1.50	VOBC-P2A			
EB Panel	0.75	V1205	3-55	V1205	1.50	VOBC-P3A			
			3-56						
			3-57						
			3-58						
			3-59						
			3-60						
			3-61						
RELAY PANEL	2P-0.75(B)	0212	3-62	0212	2P-0.75(B)	VOBC-P2A			
RELAY PANEL	2P-0.75(W)	0312	3-63	0312	2P-0.75(W)	VOBC-P2A			
RELAY PANEL	2P-0.75(S)	100	3-64	100	2P-0.75(S)	VOBC-P2A			
TMS CU	3P-1.00(B)	M5121	3-65	M5121	3P-1.00(B)	VOBC-P4A			
TMS CU	3P-1.00(W)	M5122	3-66	M5122	3P-1.00(W)	VOBC-P4A			
TMS CU	3P-1.00(R)	M5100	3-67	M5100	3P-1.00(R)	VOBC-P4A			
TMS CU	3P-1.00(S)	100	3-68	100	3P-1.00(S)	VOBC-P4A			
			3-69						
			3-70						
Grounding Terminal	2.50	100	3-71	100	1.50	VOBC-P2A	100	2.50	VOBC-PDCUA
			3-72						
			3-73						
			3-74						
			3-75						
			3-76						
			3-77						
BREAKER PANEL	1.50	A11 (9111)	3-78	A11	1.50	VOBCTB 1-78	9111	1.50	VOBCTB 2-4
BREAKER PANEL	1.50	A12 (9112)	3-79	A12	1.50	VOBCTB 1-79	9112	1.50	VOBCTB 2-19
BREAKER PANEL	1.50	A13 (9113)	3-80	A13	1.50	VOBCTB 1-80	9113	1.50	VOBCTB 2-20

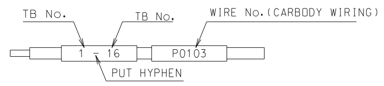
ATP-VOBC TB3

WIRE TYPES ABBREVIATION

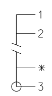
100G0111-0.75	0.75
100G0111-1.50	1.50
100G0111-1.50Y	1.50Y
100G1121-0.75	2P-0.75
100G1131-1.00	3P-1.00
100G1121-1.50	2P-1.50
100G1131-1.50	3P-1.50

NOTES

1, WIRE FINISH FOR ATP-VOBC TERMINAL SIDE ;
FINISHED WITH DOUBLE RING MARKED AS BELOW



2, INDICATES SHIELDED CABLE, 1,2,....,*
ARE CONDUCTORS AND 3 IS SHIELD



3, WIRE COLORS ABBREVIATION
(B)....BLACK / BK
(W)....WHITE / WH
(R)....RED / RD
(S)....SHIELD/ S

for WR

$USRF$
PLOT DRV:$PLTDRVL$
PRINTED BY: $USER$
FILENAME: $FILE$
$DATE$ $TIME$

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

REV	DATE	BY	SUB	APP	DESCRIPTION
0	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE

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

KCR 九廣鐵路 運輸部 Transport Division

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

SCALE NTS @ A1
ORIGINATOR KS
ORIGINATOR REFERENCE 1-UB03790-02
ORG REF REV f
DRAWING NUMBER SP1900AB/XK/RR/M6098
REV 0
RAILWAY ER
LOCATION HTL
STAGE Z
SHEET NO 1

FULL SIZE A1

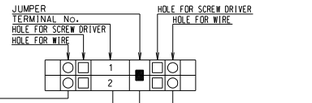
(BLUE)

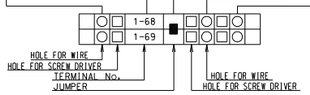
DESTINATION	WIRE TYPE (COLOR)	WIRE No.	TERMINAL No.		WIRE No.	WIRE TYPE (COLOR)	DESTINATION	
FUSE BOX	1.50	01-A	1-1		01-A	2.50	ATP-C3	
MJB	1.50Y	1873	1-2		1873	2.50Y	ATP-C3	
FUSE BOX	1.50	1874-A	1-3		1874-A	2.50	ATP-C3	
FUSE BOX	1.50	1876-A	1-4		1876-A	2.50	ATP-C3	
MJB	1.50Y	*1953	1-5	■	RDE	2.50Y	ATP-C3	*1954=DT2
			1-6	■	RDE	2.50Y	ATP-C3	
MJB	1.50Y	*1954	1-7	■	LDE	2.50Y	ATP-C3	*1953=DT2
			1-8	■	LDE	2.50Y	ATP-C3	
FUSE BOX	1.50	A01-A	1-9		A01-A	2.50	ATP-C3	
FUSE BOX	1.50	A02-A	1-10		A02-A	2.50	ATP-C3	
FUSE BOX	1.50	A03-A	1-11		A03-A	2.50	ATP-C3	
FUSE BOX	1.50	A06-A	1-12		A06-A	2.50	ATP-C3	
FUSE BOX	1.50	A07-A	1-13		A07-A	2.50	ATP-C3	
SWITCH PANEL	1.50	A69	1-14		A69	1.50	ATP-C1	
SWITCH PANEL	1.50	A70	1-15		A70	1.50	ATP-C1	
MJB	1.50Y	P0103	1-16	■	P0103	2.50Y	ATP-C3	
			1-17	■	P0103	2.50Y	ATP-C3	
MJB	1.50Y	P0104	1-18	■	P0104	2.50Y	ATP-C3	
			1-19	■	P0104	2.50Y	ATP-C3	
MJB	1.50	A03-A DW3	1-20					
ATP DRIVERS DISPLAY	2P-0.75(B)	A21	1-21		A21	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A22	1-22		A22	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A23	1-23		A23	2P-0.75(S)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(B)	A24	1-24		A24	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A25	1-25		A25	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A26	1-26		A26	2P-0.75(S)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(B)	A27	1-27		A27	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A28	1-28		A28	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A29	1-29		A29	2P-0.75(S)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(B)	A30	1-30		A30	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A31	1-31		A31	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A32	1-32		A32	2P-0.75(S)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(B)	A33	1-33		A33	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A34	1-34		A34	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A35	1-35		A35	2P-0.75(S)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(B)	A36	1-36		A36	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A37	1-37		A37	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A38	1-38		A38	2P-0.75(S)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(B)	A39	1-39		A39	2P-0.75(B)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(W)	A40	1-40		A40	2P-0.75(W)	ATP-C1	
ATP DRIVERS DISPLAY	2P-0.75(S)	A41	1-41		A41	2P-0.75(S)	ATP-C1	
RECEIVING ANTENNA-JB	2P-1.50(B)	A42	1-42		A42	2P-1.50(B)	ATO-C10	
RECEIVING ANTENNA-JB	2P-1.50(W)	A43	1-43		A43	2P-1.50(W)	ATO-C10	
RECEIVING ANTENNA-JB	2P-1.50(S)	A44	1-44		A44	2P-1.50(S)	ATO-C10	
RECEIVING ANTENNA-JB	2P-1.50(B)	A45	1-45		A45	2P-1.50(B)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(W)	A46	1-46		A46	2P-1.50(W)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(S)	A47	1-47		A47	2P-1.50(S)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(B)	A48	1-48		A48	2P-1.50(B)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(W)	A49	1-49		A49	2P-1.50(W)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(S)	A50	1-50		A50	2P-1.50(S)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(B)	A51	1-51		A51	2P-1.50(B)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(W)	A52	1-52		A52	2P-1.50(W)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(S)	A53	1-53		A53	2P-1.50(S)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(B)	A54	1-54		A54	2P-1.50(B)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(W)	A55	1-55		A55	2P-1.50(W)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(S)	A56	1-56		A56	2P-1.50(S)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(B)	A57	1-57		A57	2P-1.50(B)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(W)	A58	1-58		A58	2P-1.50(W)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(S)	A59	1-59		A59	2P-1.50(S)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(B)	A60	1-60		A60	2P-1.50(B)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(W)	A61	1-61		A61	2P-1.50(W)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(S)	A62	1-62		A62	2P-1.50(S)	ATP-C4	
RECEIVING ANTENNA-JB	2P-1.50(B)	A63	1-63		A63	2P-1.50(B)	ATO-C10	
RECEIVING ANTENNA-JB	2P-1.50(W)	A64	1-64		A64	2P-1.50(W)	ATO-C10	
RECEIVING ANTENNA-JB	2P-1.50(S)	A65	1-65		A65	2P-1.50(S)	ATO-C10	
			1-66	■	16	1.50	ATO-C20	
			1-67	■	16	1.50	ATO-C20	
MJB	1.50	16	1-68	■	16	2.50	ATP-C3	
			1-69	■	16	2.50	ATP-C3	
			1-70	■	16	2.50	ATP-C3	
MJB	1.50Y	1951	1-71	■	1951	2.50Y	ATP-C3	
			1-72	■	1951	2.50Y	ATP-C3	
MJB	1.50Y	8606a	1-73		8606a	2.50Y	ATP-C3	
BREAKER PANEL	1.50Y	8607	1-74		8607	2.50Y	ATP-C3	
MJB	1.50Y	8906a	1-75		8906a	2.50Y	ATP-C3	
SWITCH PANEL	1.50Y	A08	1-76		A08	2.50Y	ATP-C3	
MJB	1.50Y	A09	1-77		A09	2.50Y	ATP-C3	
VOBC TB 3-78	1.50	A11	1-78		A11	2.50	ATP-C3	
VOBC TB 3-79	1.50	A12	1-79		A12	2.50	ATP-C3	
VOBC TB 3-80	1.50	A13	1-80		A13	1.50	ATO-C20	

WIRE No.	WIRE TYPE (COLOR)	DESTINATION
A30	2P-1.50(B)	ATO-C10
A31	2P-1.50(W)	ATO-C10
A32	2P-1.50(S)	ATO-C10

WIRE No.	WIRE TYPE (COLOR)	DESTINATION
A51	2P-1.50(B)	ATO-C10
A52	2P-1.50(W)	ATO-C10
A53	2P-1.50(S)	ATO-C10

WIRE No.	WIRE TYPE (COLOR)	DESTINATION
16	1.50	ATO-C20
16	2.50	ATP-C3
1951	2.50Y	ATP-C3
A11	2.50	ATP-C3
A12	2.50	ATP-C3
A13	1.50	ATO-C20





ATP-VOBC TB1

(GREY)

DESTINATION	WIRE TYPE (COLOR)	WIRE No.	TERMINAL No.		WIRE No.	WIRE TYPE (COLOR)	DESTINATION	WIRE No.	WIRE TYPE (COLOR)	DESTINATION
MJB	1.50	16	2-1	■						
			2-2							
MJB	1.50	18b	2-3							
RELAY PANEL	1.50	9111	2-4		9111	1.50	VOBCTB 3-78			
MJB	1.50	D05	2-5							
MJB	1.50Y	V11	2-6							
MJB	1.50Y	8606a	2-7							
MJB	1.50Y	V12	2-8							
MJB	1.50Y	8906a	2-9							
			2-10							
MJB	1.50Y	79	2-11		79	1.50Y	ATO-C20			
MJB	1.50Y	87	2-12							
MJB	1.50Y	88	2-13							
MJB	1.50	90	2-14							
MJB	1.50Y	0501	2-15							
MJB	1.50Y	0601	2-16							
MJB	1.50Y	1873	2-17		1873	1.50Y	FUSE BOX			
MJB	1.50	5501	2-18							
VOBC TB 3-79	1.50	9112	2-19							
VOBC TB 3-80	1.50	9113	2-20							
MJB	1.50Y	*003	2-21							*004=DT2
MJB	1.50Y	*004	2-22							*003=DT2
MJB	1.50Y	*007	2-23							*009=DT2
MJB	1.50Y	*008	2-24							*010=DT2
MJB	1.50Y	*009	2-25							*007=DT2
MJB	1.50Y	*010	2-26							*008=DT2
			2-27							
			2-28							
MJB	1.50Y	D13	2-29							
MJB	1.50Y	*014	2-30							*015=DT2
MJB	1.50Y	*015	2-31							*014=DT2
TMS TERMINAL BLOCK	1.50	MN241	2-32							
TMS CU	1.50	M5151	2-33							
RELAY PANEL	0.75Y	P0201	2-34							
RELAY PANEL	0.75Y	B0111	2-35							
MJB	1.50Y	V01	2-36							
MJB	1.50Y	V02	2-37							
MJB	1.50Y	V03	2-38							
MJB	1.50Y	V04	2-39							
MJB	1.50Y	V05	2-40							
MJB	1.50Y	*011	2-41							*012=DT2
			2-42							
MJB	1.50Y	*012	2-43							*011=DT2
			2-44							
			2-45							
TRANSMIT ANTENNA	2P-0.75(B)	A66	2-46		A66	2P-0.75(B)	ATP-C1			
TRANSMIT ANTENNA	2P-0.75(W)	A67	2-47		A67	2P-0.75(W)	ATP-C1			
TRANSMIT ANTENNA	2P-0.75(S)	A68	2-48		A68	2P-0.75(S)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(B)	A71 V2511	2-49		A71	3P-1.50(B)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(W)	A72 V2512	2-50		A72	3P-1.50(W)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(R)	A73 V2513	2-51		A73	3P-1.50(R)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(S)	A74 100	2-52		A74	3P-1.50(S)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(B)	A75	2-53		A75	3P-1.50(B)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(W)	A76	2-54		A76	3P-1.50(W)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(R)	A77	2-55		A77	3P-1.50(R)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(S)	A78	2-56		A78	3P-1.50(S)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(B)	A79	2-57		A79	3P-1.50(B)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(W)	A80	2-58		A80	3P-1.50(W)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(R)	A81	2-59		A81	3P-1.50(R)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(S)	A82	2-60		A82	3P-1.50(S)	ATP-C1			
SPEED SENSOR 1 CN	3P-1.50(B)	A83 V2515	2-61		A83	3P-1.50(B)	ATO-C10			
SPEED SENSOR 1 CN	3P-1.50(W)	A84 V2516	2-62		A84	3P-1.50(W)	ATO-C10			
SPEED SENSOR 1 CN	3P-1.50(R)	A85 V2514	2-63		A85	3P-1.50(R)	ATO-C10			
SPEED SENSOR 1 CN	3P-1.50(S)	A86 100	2-64		A86	3P-1.50(S)	ATO-C10			
SPEED SENSOR 2 CN	3P-1.50(B)	A87 V2521	2-65		A87	3P-1.50(B)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(W)	A88 V2522	2-66		A88	3P-1.50(W)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(R)	A89 V2523	2-67		A89	3P-1.50(R)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(S)	A90 100	2-68		A90	3P-1.50(S)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(B)	A91	2-69		A91	3P-1.50(B)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(W)	A92	2-70		A92	3P-1.50(W)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(R)	A93	2-71		A93	3P-1.50(R)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(S)	A94	2-72		A94	3P-1.50(S)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(B)	A95	2-73		A95	3P-1.50(B)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(W)	A96	2-74		A96	3P-1.50(W)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(R)	A97	2-75		A97	3P-1.50(R)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(S)	A98	2-76		A98	3P-1.50(S)	ATP-C1			
SPEED SENSOR 2 CN	3P-1.50(B)	A283 V2525	2-77		A283	3P-1.50(B)	ATO-C8			
SPEED SENSOR 2 CN	3P-1.50(W)	A284 V2526	2-78		A284	3P-1.50(W)	ATO-C8			
SPEED SENSOR 2 CN	3P-1.50(R)	A285 V2524	2-79		A285	3P-1.50(R)	ATO-C8			
SPEED SENSOR 2 CN	3P-1.50(S)	A286 100	2-80		A286	3P-1.50(S)	ATO-C8			

ATP-VOBC TB2

(GREY)

DESTINATION	WIRE TYPE (COLOR)	WIRE No.	TERMINAL No.		WIRE No.	WIRE TYPE (COLOR)	DESTINATION
MJB	1.50	V06	3-1				
MJB	1.50Y	V08	3-2				
MJB	1.50	V09	3-3				
MJB	1.50	V10	3-4				
MJB	1.50Y	V15	3-5				
MJB	1.50	V18	3-6				
MJB	1.50Y	V21	3-7				
RELAY PANEL	1.50	V0603	3-8				
RELAY PANEL	0.75	V1001	3-9				
ATC DRIVERS DISPLAY	1.50	V1620	3-10				
ATC DRIVERS DISPLAY	1.50	V1621	3-11				
			3-12				
			3-13				
MJB	2P-0.75(B)	V16	3-14				
MJB	2P-0.75(W)	V17	3-15				
MJB	2P-0.75(S)	100	3-16				
ATC DRIVERS DISPLAY	2P-0.75(B)	V1601	3-17				
ATC DRIVERS DISPLAY	2P-0.75(W)	V1701	3-18				
ATC DRIVERS DISPLAY	2P-0.75(S)	100	3-19				
RX ANTENNA 1	2P-0.75(B)	V2011	3-20				
RX ANTENNA 1	2P-0.75(W)	V2012	3-21				
RX ANTENNA 1	2P-0.75(S)	100	3-22				
RX ANTENNA 2	2P-0.75(B)	V2021	3-23				
RX ANTENNA 2	2P-0.75(W)	V2022	3-24				
RX ANTENNA 2	2P-0.75(S)	100	3-25				
DOCKING ANTENNA 1	2P-0.75(B)	V2031	3-26				
DOCKING ANTENNA 1	2P-0.75(W)	V2032	3-27				
DOCKING ANTENNA 1	2P-0.75(S)	100	3-28				
DOCKING ANTENNA 2	2P-0.75(B)	V2033	3-29				
DOCKING ANTENNA 2	2P-0.75(W)	V2034	3-30				
DOCKING ANTENNA 2	2P-0.75(S)	100	3-31				
TX ANTENNA 1	2P-0.75(B)	V2041	3-32				
TX ANTENNA 1	2P-0.75(W)	V2042	3-33				
TX ANTENNA 1	2P-0.75(S)	100	3-34				
TX ANTENNA 2	2P-0.75(B)	V2051	3-35				
TX ANTENNA 2	2P-0.75(W)	V2052	3-36				
TX ANTENNA 2	2P-0.75(S)	100	3-37				
			3-38				
			3-39				
			3-40				
			3-41				
PROXIMITY SENSOR	3P-1.50(B)	V2241	3-42				
PROXIMITY SENSOR	3P-1.50(W)	V2242	3-43				
PROXIMITY SENSOR	3P-1.50(R)	V2243	3-44				
PROXIMITY SENSOR	3P-1.50(S)	100	3-45				
			3-46	■			
			3-47	■			
			3-48				
			3-49				
			3-50				
			3-51				
			3-52				
			3-53				
			3-54				
			3-55				
			3-56				
			3-57				
			3-58				
			3-59				
			3-60				
			3-61				
RELAY PANEL	2P-0.75(B)	0212	3-62		0212	2P-1.50(B)	ATO-C10
RELAY PANEL	2P-0.75(W)	0312	3-63		0312	2P-1.50(W)	ATO-C10
RELAY PANEL	2P-0.75(S)	100	3-64		100	2P-1.50(S)	ATO-C10
TMS CU	3P-1.00(B)	M5121	3-65				
TMS CU	3P-1.00(W)	M5122	3-66				
TMS CU	3P-1.00(R)	M5100	3-67				
TMS CU	3P-1.00(S)	100	3-68				
			3-69				
			3-70				
Grounding Terminal	2.50	100	3-71				
			3-72				
			3-73				
			3-74				
			3-75				
			3-76				
			3-77				
BREAKER PANEL	1.50	A11 (9111)	3-78		A11	1.50	VOBCTB 1-78	9111	1.50	VOBCTB 2-4
BREAKER PANEL	1.50	A12 (9112)	3-79		A12	1.50	VOBCTB 1-79	9112	1.50	VOBCTB 2-19
BREAKER PANEL	1.50	A13 (9113)	3-80		A13	1.50	VOBCTB 1-80	9113	1.50	VOBCTB 2-20

WIRE No.	WIRE TYPE (COLOR)	DESTINATION

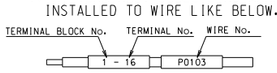
ATP-VOBC TB3

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

MOTES

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



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

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

4. INSULATED WIRES SHOULD BE TREATED AS SPARE WIRES

KCRC ER	DT2	A	*	B902
KCRC ER	DT1	A	*	B902
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP No.

REV	DATE	BY	SUB	APP	DESCRIPTION
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -

REV	DATE	BY	SUB	APP	DESCRIPTION
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
A	--------	---	---	---	- - -
0	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE

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

KCR 九廣鐵路 運輸部 Transport Division

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

SCALE	NTS @ A1	
ORIGINATOR	ORIGINATOR REFERENCE	DRG REF REV
KS	1-UB03790-01	b
DRAWING NUMBER		REV
SP1900AB/XK/RR/M6097		0

RAILWAY	LOCATION	STAGE	SHEET NO
ER	HTL	Z	1

FULL SIZE A1

$USRF$
PLOT DRV:$PLTDRVL$
PRINTED BY:$USER$
FILENAME: $FILE$
$DATE$ $TIME$