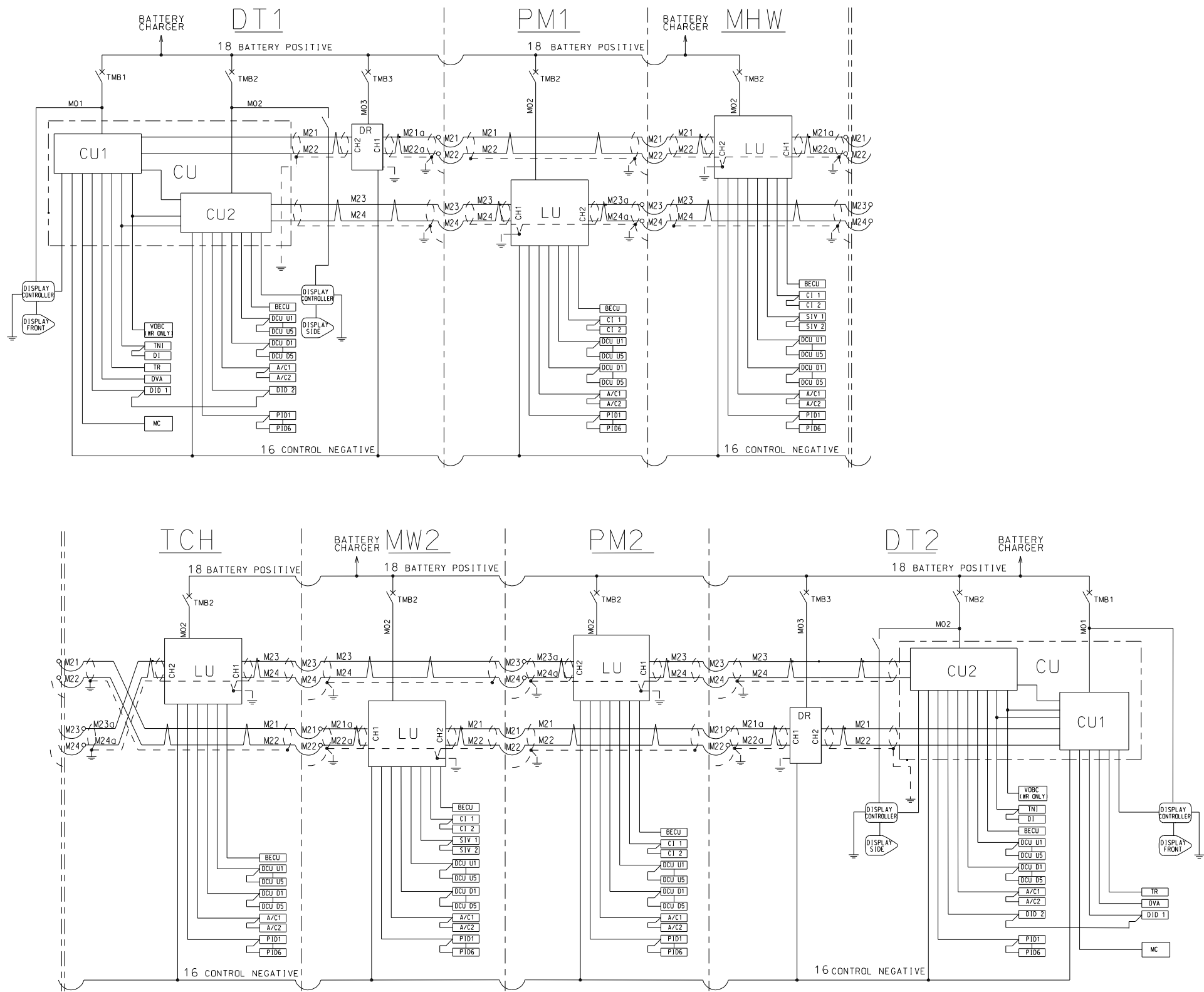


DESIGNED BY
NIL
DRAWN BY
SRD
CHECKED BY
K.Y.CHEUNG
IN CHARGE
C.C.HON
DATE
26JAN2007



TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC TMS SYSTEM CONFIGURATION (12CARS)
-------	---

SCALE			
NTS @ A1			
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB03146-1	ORIG REF REV C	
DRAWING NUMBER SP1900AB/XH/RR/K5000			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1



\$USRF\$  
PLOT DRV:\$PLTDV\$L\$  
PRINTED BY: \$USER\$  
FILENAME: \$FILE\$

\$DATE\$  
\$TIME\$

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
1	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

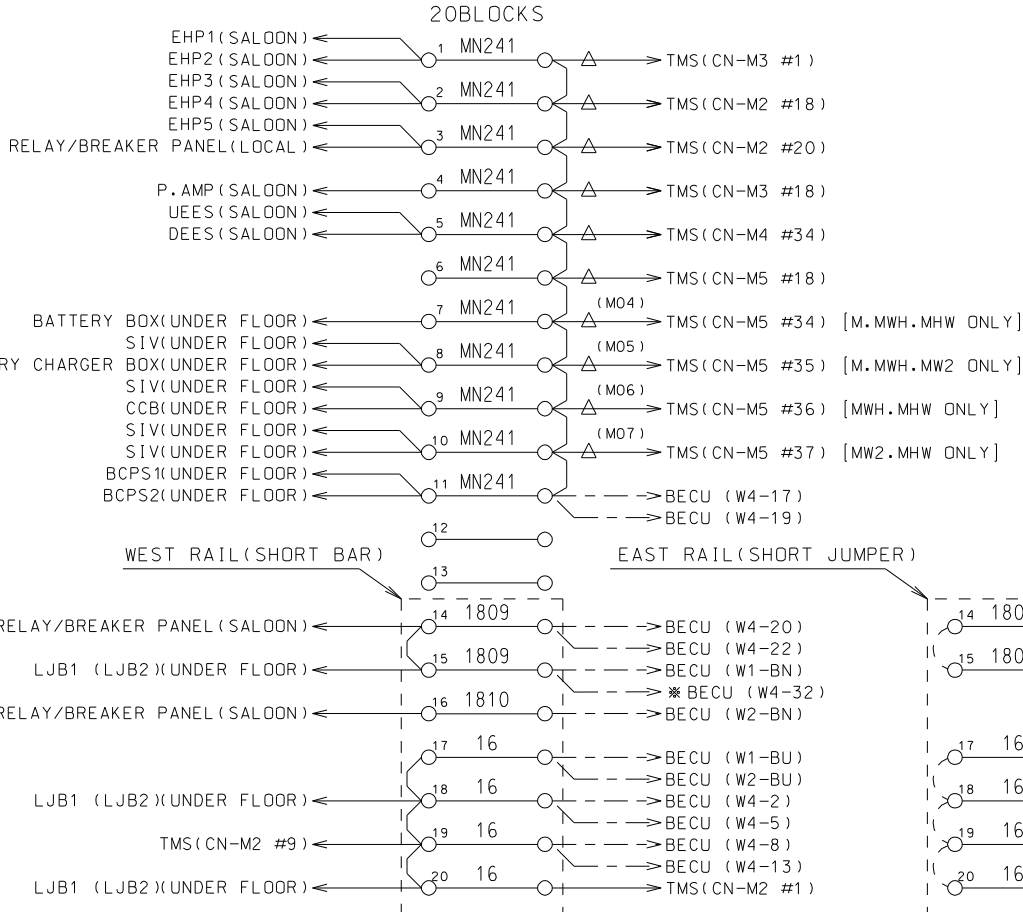


TITLE  
SP1900 ELECTRIC MULTIPLE UNITS  
ELECTRICAL SCHEMATIC  
TMS SYSTEM CONFIGURATION (7CARS)

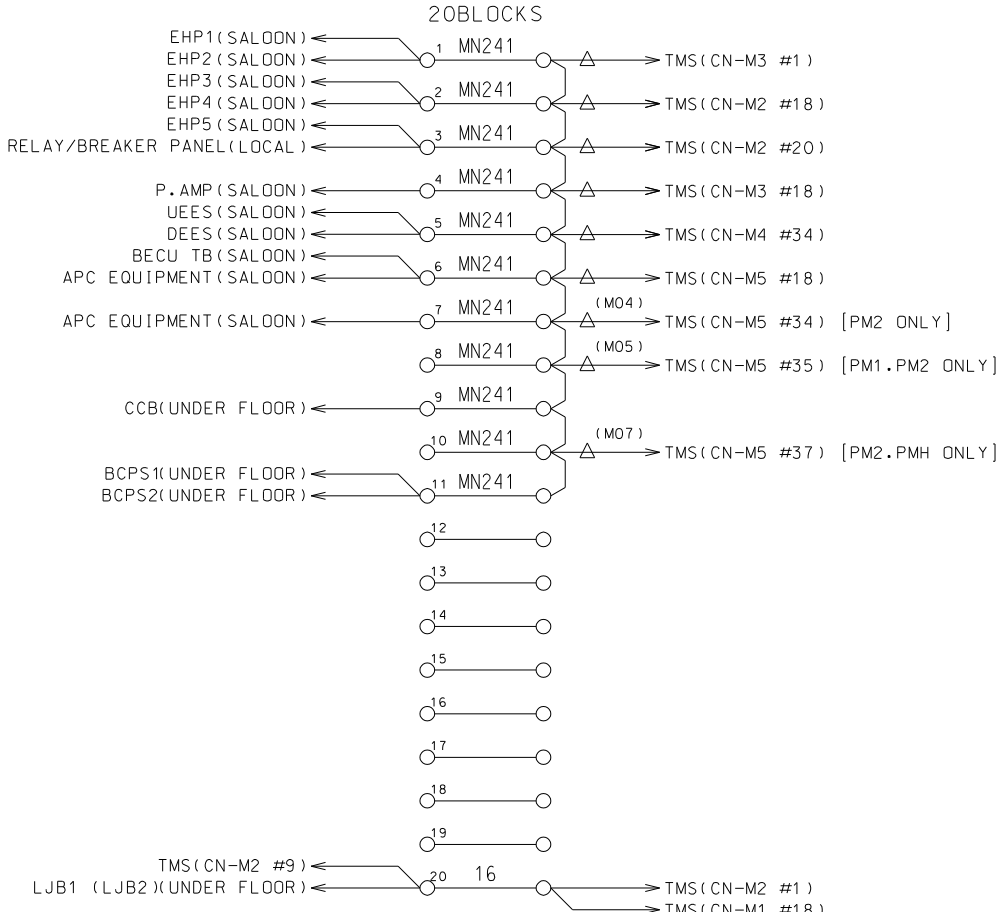
KCRC	WR	DT2	A	*	B901
KCRC	WR	PM2	A	*	B901
KCRC	WR	MHW	A	*	B901
KCRC	WR	TCH	A	*	B901
KCRC	WR	MW2	A	*	B901
KCRC	WR	PM1	A	*	B901
KCRC	WR	DT1	A	*	B901
APPLIED CAR		CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP NO.

SCALE					
NTS @ A1					
ORIGINATOR		ORIGINATOR REFERENCE		ORG REF REV	
KS		1-UB03146-2		c	
DRAWING NUMBER					REV
SP1900AB/XH/RR/K5001					0
RAILWAY		LOCATION		STAGE	
ER		HTL		Z	
				SHEET NO	
				1	

## TMS TERMINAL BLOCK

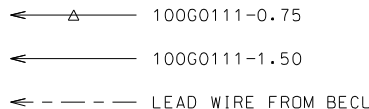


## TMS TERMINAL BLOCK



## NOTES

- ## 1. SYMBOL FOR WIRE TYPES



2. INDICATES SHORT BAR



3. INDICATES SHORT JUMPER



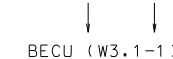
4. WIRE FINISH FOR TMS-TB SIDE : (M04-M07) TO BE FINISHED WITH DOUBLE RING MARKED MN241.

5. WIRE DESTINATION WITH ( ) = MWH.PMH.MW2.PM2

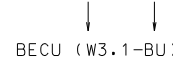
## 6. EXPLANATION OF BECU LEAD WIRE

EX.

CABLE No. MARK No.



CABLE NO. WIRE (COL)



CARBODY SIDE CN .NO CONTACT NO

↓ ↓  
BECU (X6.1-1)

## 7. CONNECT \* PART FOR WR ONLY

COLOR ABBREVIATION

BU BLUE

BN BROWN

( PM1 . M . MWH . PMH . MW2 . PM2 )

KCRC	WR	PM2	B	1	B902
KCRC	WR	MW2	B	1	B902
KCRC	WR	MHW	A	1	B902
KCRC	WR	PM1	A	1	B902
KCRC	ER	PMH	B	1	B902
KCRC	ER	PM2	B	1	B902
KCRC	ER	PM1	A	1	B902
KCRC	ER	MWH	B	1	B902
KCRC	ER	MW2	B	1	B902
KCRC	ER	M	A	1	B902
ADDEN CAR	CAR	TYPE	CDUW	REQ	KS DWG

[illegible]

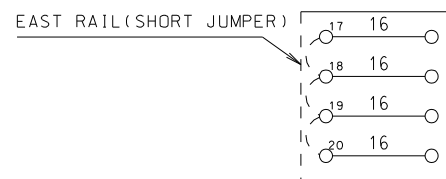
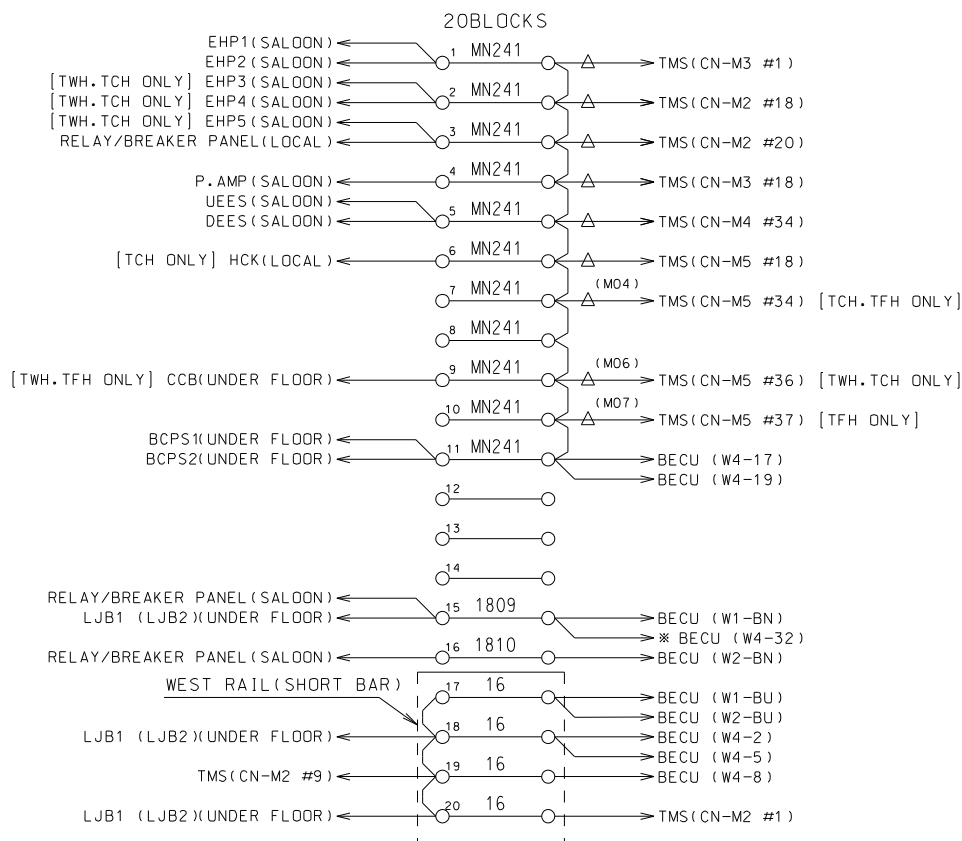
DESIGNED BY
NIL
DRAWN BY
SRD
CHECKED BY
K.Y.CHEUNG
IN CHARGE
C.C.HON
DATE
26 JAN 2007



TITLE	SP1900 ELECTRIC MULTIPLE UNITS CONNECTION DIAGRAM  TMS TERMINAL DESIGNATION (1/2) PM1, PM2, M, MWH, PMH, MW2, MHW CAR
-------	--

SCALE			NTS @ A1		UNOFF. MOD.
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB03762-01			ORG REF REV C	
DRAWING NUMBER SP1900AB/XK/RR/M6121					REV 0
RAILWAY EP	LOCATION UTI	STAGE 7		SHEET NO 1	

# TMS TERMINAL BLOCK (TWH.TCH.TFH)



## NOTES

### 1. SYMBOL FOR WIRE TYPES

- 100G0111-0.75
- 100G0111-1.50
- LEAD WIRE FROM BECU

### 2. INDICATES SHORT BAR



### 3. INDICATES SHORT JUMPER



### 4. WIRE FINISH FOR TMS-TB SIDE : (M04-M07) TO BE FINISHED WITH DOUBLE RING MARKED MN241.

### 5. EXPLANATION OF BECU LEAD WIRE

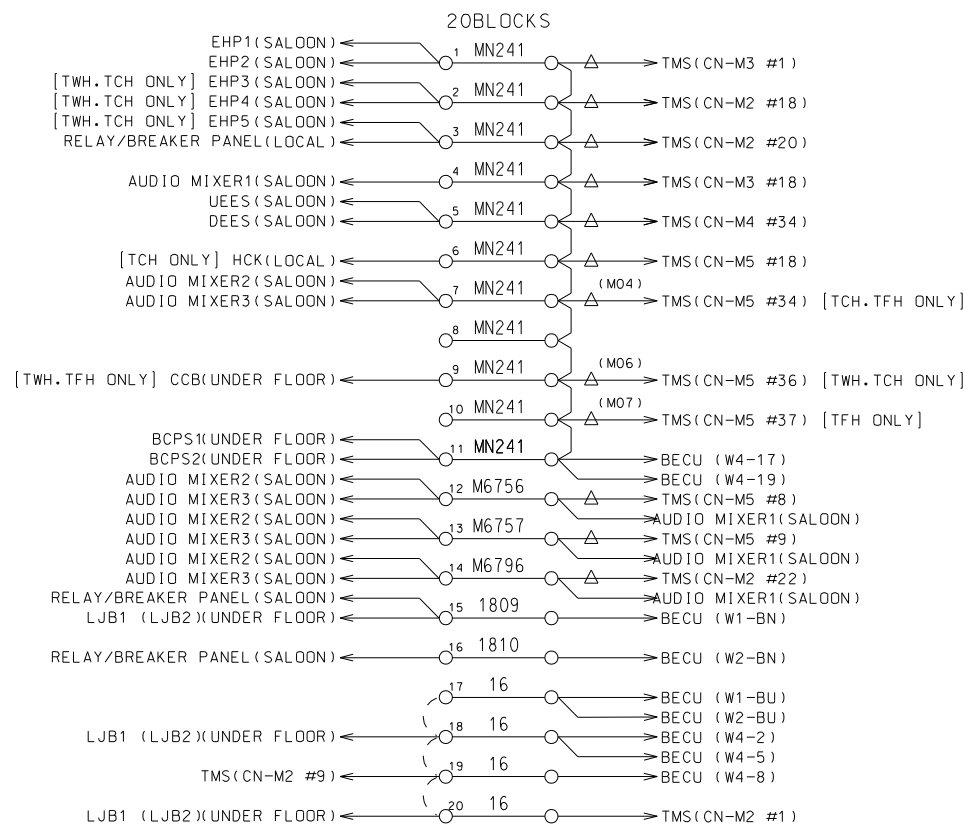
EX.  
CABLE No. MARK No.  
BECU (W3.1-1)

CABLE No. WIRE (COL)  
BECU (W3.1-BU)

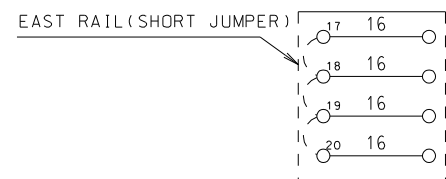
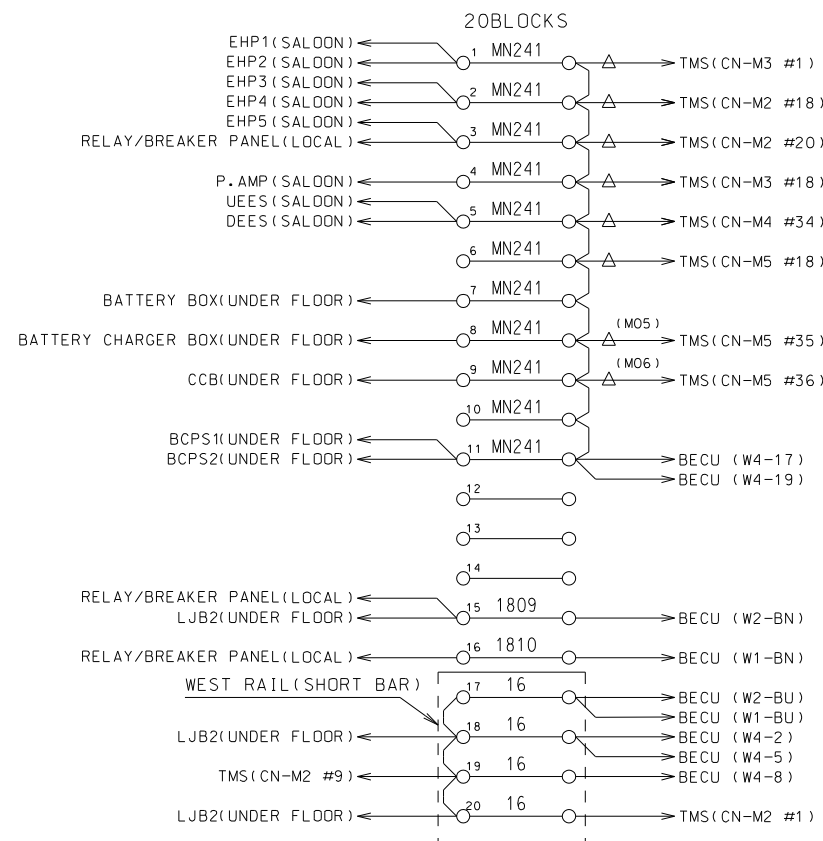
CARBODY SIDE CN No CONTACT No  
BECU (X6.1-1)

### 6. CON NECT \* PART FOR WR ONLY

# TMS TERMINAL BLOCK (TFH)



# TMS TERMINAL BLOCK (TH2)



REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
1	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



TITLE  
SP1900 ELECTRIC MULTIPLE UNITS  
CONNECTION DIAGRAM  
TMS TERMINAL DESIGNATION (2/2)  
TH2, TWH, TCH, TFH CAR

SCALE		NTS @ A1		ORIG REF
ORIGINATOR	ORIGINATOR REFERENCE		ORIG REF REV	
KS	1-UB03762-02		C	
DRAWING NUMBER			REV	
SP1900AB/XK/RR/M6122			0	
RAILWAY	LOCATION	STAGE	SHEET NO	
ER	HTL	Z	1	

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M23	LJB1	BN
2	M23α	LJB1	BN
3	※		
4	※		
5	※		
6	M6521	UF / CONVERTER INVERTER	BK
7	M6121	1SP TB	BK
8	M6621	EDCU-D1	BK
9	M6631	EDCU-U1	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100	LJB1	SHI
18	M24	LJB1	WH
19	M24α	LJB1	WH
20	◎		
21			
22			
23	M6522	UF / CONVERTER INVERTER	WH
24	M6122	1SP TB	WH
25	M6622	EDCU-D1	WH
26	M6632	EDCU-U1	WH
27			
28			
29			
30			
31			
32	◎		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF / CONVERTER INVERTER	RD
40	M6100	1SP TB	RD
41	M6600	EDCU-D1	RD
42	M6605	EDCU-U1	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

- 1 ←
- 2 ←

**運輸部**  
**Transport Division**

SP1900 ELECTRIC MULTIPLE UNITS  
CONNECTION DIAGRAM  
TMS LOCAL UNIT PIN ASSIGNMENT (1/11)  
PM1 CAR

KCRC	WR	PM1	A	1	B902
KCRC	ER	PM1	A	1	B902
APPLIED CAR		CAR TYPE	GROUP	PES/CAR	KS DWG. GROUP NO.

SCALE					
NTS @ A1					
ORIGINATOR		ORIGINATOR REFERENCE		ORG REF REV	
KS		1-UB04126-01		A	
DRAWING NUMBER					REV
SP1900AB/XK/RR/M6110					0
RAILWAY		LOCATION		STAGE	SHEET NO
ER		HTL		Z	1

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M21a	LJB1	BN
2	M21	LJB1	BN
3	※		
4	※		
5	※		
6	M6521	UF / CONVERTER INVERTER	BK
7	M6121	BEUC	BK
8	M6621	EDCU-D1	BK
9	M6631	EDCU-U1	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M22a	LJB1	WH
19	M22	LJB1	WH
20	◎		
21			
22			
23	M6522	UF / CONVERTER INVERTER	WH
24	M6122	BEUC	WH
25	M6622	EDCU-D1	WH
26	M6632	EDCU-U1	WH
27			
28			
29			
30			
31			
32	◎		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF / CONVERTER INVERTER	RD
40	M6100	BEUC	RD
41	M6600	EDCU-D1	RD
42	M6605	EDCU-U1	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

- 1 ←
- 2 ←

PID	PASSENGER INFORMATION DISPLAY
UEES	UEED ACCESS DETECTION SWITCH
DEES	DEED ACCESS DETECTION SWITCH
SHI	SHIELD

FULL SIZE A1

TMS-LU			
CN-M1 (NO COLOUR)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	※		
4	※		
5	※		
6			
7			
8			
9			
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	※		
18	※		
19	※		
20	●		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32	※		
33	●		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40			
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M2 (RD)			
PIN No.	WIRE No.	DESTINATION	
1	16	TMS TB	
2	※		
3	※		
4	90	LJB1	
5	※		
6			
7			
8			
9	16	TMS TB	
10	D03	LJB1	
11	D04	LJB1	
12	M6070	HOSTLER PANEL	
13	※		
14	※		
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	●		
20	MN241	TMS TB	
21			
22	M6796	A-MIXER	
23			
24			
25			
26			
27			
28			
29			
30			
31			
32	●		
33	※		
34	MP241		
35			
36	MP241		
37	※		
38	※		
39	M6797	RELAY/BREAKER PANEL	
40	M6798	RELAY/BREAKER PANEL	
41			
42			
43	M6491	UF/CCB	
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M3 (BK)			
PIN No.	WIRE No.	DESTINATION	
1	MN241	TMS TB	
2	MP241		
3	※		
4	※		
5	※		
6			
7			
8			
9	MP241		
10	M6791	EHPC1	
11	M6792	EHPC2	
12	M6793	EHPC3	
13	M6794	EHPC4	
14	M6795	EHPC5	
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	※		
20	●		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31	●		
32	※		
33	※		
34	※		
35	※		
36	※		
37	※		
38			
39			
40			
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50			

TMS-LU			
CN-M4 (BU)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	※		
4	M6152	RELAY/BREAKER PANEL	
5	M6155	UF/BCPS1	
6			
7	M6161	BECU	
8			
9			
10			
11			
12	M6653	DEES	
13	※		
14	※		
15	※		
16	※		
17	※		
18	●		
19	※		
20			
21	M6156	UF/BCPS2	
22			
23			
24			
25			
26			
27			
28			
29			
30	M6457	UF/CCB	
31			
32	●		
33	※		
34	MN241	TMS TB	
35			
36	M6151	RELAY/BREAKER PANEL	
37	※		
38	※		
39	M6160	BECU	
40			
41			
42			
43			
44	M6652	UEES	
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M5 (GN)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	M6751	EHPC1	
4	M6752	EHPC2	
5	M6753	EHPC3	
6	M6754	EHPC4	
7	M6755	EHPC5	
8	M6756	A-MIXER	
9	M6757	A-MIXER	
10	M6651	RELAY/BREAKER PANEL	
11			
12			
13			
14			
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	●		
20			
21			
22			
23			
24			
25			
26	M6300	PID1	RD
27			
28	M6200	AIR-CON CONTROL PANEL	RD
29			
30			
31			
32	※		
33	●		
34	※		
35	※		
36	M06	TMS TB	
37	※		
38	※		
39			
40			
41			
42	M6321	PID1	BK
43	M6322	PID1	WH
44	M6221	AIR-CON CONTROL PANEL	BK
45	M6222	AIR-CON CONTROL PANEL	WH
46	※		
47	※		
48	※		
49	※		
50	100		SHI

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M23	LJB1	BN
2	M23	LJB1	BN
3	※		
4	※		
5	※		
6			
7	M6121	BECU	BK
8	M6621	EDCU-D1	BK
9	M6631	EDCU-U1	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M24	LJB1	WH
19	M24	LJB1	WH
20	●		
21			
22			
23			
24	M6122	BECU	WH
25	M6622	EDCU-D1	WH
26	M6632	EDCU-U1	WH
27			
28			
29			
30			
31			
32	●		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40	M6100	BECU	RD
41	M6600	EDCU-D1	RD
42	M6605	EDCU-U1	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

NOTES

1. INDICATES SHIELDED CABLE. 1,2,....,※ ARE CONDUCTORS AND 3 IS SHIELD
2. INDICATES SHORT JUMPER ON CONNECTOR
3. WITH REMARK ※, INSERT DUMMY CONTACT.
4. WITH REMARK ●, SOLDER THE POLARIZING CONTACT.
5. INDICATES TWISTED CABLE (100G0121-1.50)

COLOR ABBREVIATION

- BK BLACK
- WH WHITE
- BU BLUE
- YW YELLOW
- GN GREEN
- RD RED
- BN BROWN

ABBREVIATION

- PID PASSENGER INFOMATION DISPLAY
- UEES UEED ACCESS DETECTION SWITCH
- DEES DEED ACCESS DETECTION SWITCH
- SHI SHIELD

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

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



TITLE			
SP1900 ELECTRIC MULTIPLE UNITS CONNECTION DIAGRAM TMS LOCAL UNIT PIN ASSIGNMENT (3/11) TWH CAR			

SCALE			
NTS @ A1			
ORIGINATOR	ORIGINATOR REFERENCE		ORG REF REV
KS	1-UB04126-03		a
DRAWING NUMBER			REV
SP1900AB/XK/RR/M6112			0
RAILWAY	LOCATION	STAGE	SHEET NO
ER	HTL	Z	1

TMS-LU			
CN-M1 (NO COLOUR)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	※		
4	※		
5	※		
6			
7			
8			
9			
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	※		
18	※		
19	※		
20	○		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32	※		
33	○		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40			
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M2 (RD)			
PIN No.	WIRE No.	DESTINATION	
1	16	TMS TB	
2	※		
3	※		
4	90	LJB2	
5	※		
6			
7			
8			
9	16	TMS TB	
10	D03	LJB2	
11	D04	LJB2	
12	M6070	HOSTLER PANEL	
13	※		
14	※		
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	○		
20	MN241	TMS TB	
21			
22	M6796	A-MIXER	
23			
24			
25			
26			
27			
28			
29			
30			
31			
32	○		
33	※		
34	MP241		
35			
36	MP241		
37	※		
38	※		
39	M6797	RELAY/BREAKER PANEL	
40	M6798	RELAY/BREAKER PANEL	
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M3 (BK)			
PIN No.	WIRE No.	DESTINATION	
1	MN241	TMS TB	
2	MP241		
3	※		
4	※		
5	※		
6			
7			
8			
9	MP241		
10	M6791	EHPC1	
11	M6792	EHPC2	
12	M6793	EHPC3	
13	M6794	EHPC4	
14	M6795	EHPC5	
15	M5092	RELAY/BREAKER PANEL	
16	※		
17	※		
18	MN241	TMS TB	
19	※		
20	○		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31	○		
32	※		
33	※		
34	※		
35	※		
36	※		
37	※		
38			
39			
40			
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

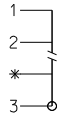
TMS-LU			
CN-M4 (BU)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	※		
4	M6152	RELAY/BREAKER PANEL	
5	M6155	UF/BCPS1	
6			
7	M6161	BECU	
8			
9			
10			
11			
12	M6653	DEES	
13	※		
14	※		
15	※		
16	※		
17	※		
18	○		
19	※		
20			
21	M6156	UF / BCPS2	
22			
23			
24			
25			
26			
27			
28			
29			
30	M6457	HCK	
31			
32	○		
33	※		
34	MN241	TMS TB	
35	※		
36	M6151	RELAY/BREAKER PANEL	
37	※		
38	※		
39	M6160	BECU	
40			
41			
42			
43			
44	M6652	UEES	
45			
46			
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M5 (GN)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	M6751	EHPC1	
4	M6752	EHPC2	
5	M6753	EHPC3	
6	M6754	EHPC4	
7	M6755	EHPC5	
8	M6756	A-MIXER	
9	M6757	A-MIXER	
10	M6651	RELAY/BREAKER PANEL	
11			
12			
13			
14			
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	○		
20			
21			
22			
23			
24			
25			
26	M6300	PID6	RD
27			
28	M6200	AIR-CON CONTROL PANEL	RD
29			
30			
31			
32	※		
33	○		
34	M04	TMS TB	
35	※		
36	M06	TMS TB	
37	※		
38	※		
39			
40			
41			
42	M6321	PID6	BK
43	M6322	PID6	WH
44	M6221	AIR-CON CONTROL PANEL	BK
45	M6222	AIR-CON CONTROL PANEL	WH
46	※		
47	※		
48	※		
49	※		
50	100		SHI

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M23	LJB2	BN
2	M230	LJB2	BN
3	※		
4	※		
5	※		
6			
7	M6121	BECU	BK
8	M6621	EDCU-D5	BK
9	M6631	EDCU-U5	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M24	LJB2	WH
19	M240	LJB2	WH
20	○		
21			
22			
23			
24	M6122	BECU	WH
25	M6622	EDCU-D5	WH
26	M6632	EDCU-U5	WH
27			
28			
29			
30			
31			
32	○		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40	M6100	BECU	RD
41	M6600	EDCU-D5	RD
42	M6605	EDCU-U5	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

NOTES

1. INDICATES SHIELDED CABLE, 1,2,....,\* ARE CONDUCTORS AND 3 IS SHIELD
5. INDICATES TWISTED CABLE (100G0121-1.50)



2. INDICATES SHORT JUMPER ON CONNECTOR



3. WITH REMARK ※, INSERT DUMMY CONTACT.

4. WITH REMARK ○, SOLDER THE POLARIZING CONTACT.



COLOR ABBREVIATION

- BK BLACK  
WH WHITE  
BU BLUE  
YW YELLOW  
GN GREEN  
RD RED  
BN BROWN

ABBREVIATION

- PID PASSENGER INFORMATION DISPLAY  
UEES UEED ACCESS DETECTION SWITCH  
DEES DEED ACCESS DETECTION SWITCH  
SHI SHIELD

REV	DATE	BY	SUB	APP	DESCRIPTION
△					
△					
△					
△					
△					
△	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



運輸部  
Transport Division

TITLE  
SP1900 ELECTRIC MULTIPLE UNITS  
CONNECTION DIAGRAM  
TMS LOCAL UNIT PIN ASSIGNMENT (4/11)  
TCH CAR

	KCRC	WR	TCH	A	1	B902
	KCRC	ER	TCH	A	1	B902
	APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DING GROUP NO.	
SCALE						
NTS @ A1						
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04126-04				ORIG REF REV D	
DRAWING NUMBER SP1900AB/XK/RR/M6113					REV 0	
RAILWAY ER	LOCATION HTL		STAGE Z		SHEET NO 1	



TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M21 ♂	LJB2	BN
2	M21	LJB2	BN
3	※		
4	※		
5	※		
6			
7	M6121	BECU	BK
8	M6621	EDCU-D5	BK
9	M6631	EDCU-U5	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M22 ♂	LJB2	WH
19	M22	LJB2	WH
20	⊙		
21			
22			
23			
24	M6122	BECU	WH
25	M6622	EDCU-D5	WH
26	M6632	EDCU-U5	WH
27			
28			
29			
30			
31			
32	⊙		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40	M6100	BECU	RD
41	M6600	EDCU-D5	RD
42	M6605	EDCU-U5	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

5. INDICATES TWISTED CABLE (100G0121-1.50)



1 ←

2 ←

4. WITH REMARK 9, SOLDER THE POLARIZING CONTACT.

**運輸部**  
**Transport Division**

KCRC ER TH2		A	1	8902
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	INSTR. GROUP NO.

SCALE

NTS @ A1

ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04126-05	ORIG REF REV b
------------------	--------------------------------------	-------------------

DRAWING NUMBER

SP1900AB/XK/RR/M6114

REV 0

RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1
---------------	-----------------	------------	---------------

TMS-LU			
CN-M1 (NO COLOUR)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	※		
4	※		
5	※		
6			
7			
8			
9			
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	※		
18			
19	※		
20	○		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32	※		
33	○		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40			
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M2 (RD)			
PIN No.	WIRE No.	DESTINATION	
1	16	TMS TB	
2	※		
3	※		
4	90	LJB2	
5	※		
6	M6581	UF / CONVERTER INVERTER	
7	M6582	UF / CONVERTER INVERTER	
8			
9	16	TMS TB	
10	D03	LJB2	
11	D04	LJB2	
12	M6070	HOSTLER PANEL	
13	※		
14	※		
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	○		
20	MN241	TMS TB	
21	M6596	UF / CCB	
22	M6796	A-MIXER	
23			
24	M6583	UF / CONVERTER INVERTER	
25	M6584	UF / CONVERTER INVERTER	
26			
27			
28			
29			
30			
31			
32	○		
33	※		
34	MP241		
35	※		
36	MP241		
37	M6595	UF / CCB	
38	※		
39	M6797	RELAY/BREAKER PANEL	
40	M6798	RELAY/BREAKER PANEL	
41			
42			
43	M6491	UF / CCB	
44			
45			
46	※		
47	※		
48	※		
49	※		
50	※		

TMS-LU			
CN-M3 (BK)			
PIN No.	WIRE No.	DESTINATION	
1	MN241	TMS TB	
2	MP241		
3	※		
4	※		
5	※		
6			
7			
8			
9	MP241		
10	M6791	EHPC1	
11	M6792	EHPC2	
12	M6793	EHPC3	
13	M6794	EHPC4	
14	M6795	EHPC5	
15	※		
16	※		
17	※		
18	MN241	TMS TB	
19	※		
20	○		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31	○		
32	※		
33	※		
34	※		
35	※		
36	※		
37	※		
38	M6411	UF/BATTERY CHARGER	BK
39	M6412	UF/BATTERY CHARGER	WH
40			
41			
42			
43			
44			
45			
46	※		
47	※		
48	※		
49	※		
50	100		SHI

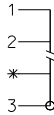
TMS-LU			
CN-M4 (BU)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	※		
4	M6152	RELAY/BREAKER PANEL	
5	M6155	UF / BCPS1	
6			
7	M6161	BECU	
8			
9	M6461	UF / CCB	
10	M6464	UF/BATTERY BOX	
11			
12	M6653	DEES	
13	M6453	UF / S1V	
14	M6456	UF / S1V	
15	※		
16	※		
17	※		
18	○		
19	※		
20			
21	M6156	UF / BCPS2	
22			
23			
24			
25	M6462	UF / CCB	
26	M6465	UF/BATTERY CHARGER	
27			
28			
29	M6454	UF / S1V	
30	M6457	UF / CCB	
31			
32	○		
33	※		
34	MN241	TMS TB	
35	※		
36	M6151	RELAY/BREAKER PANEL	
37	※		
38	※		
39	M6160	BECU	
40			
41			
42	M6463	UF / CCB	
43			
44	M6652	UEES	
45			
46	M6455	UF / S1V	
47	M6458	UF / CCB	
48	※		
49	※		
50	※		

TMS-LU			
CN-M5 (GN)			
PIN No.	WIRE No.	DESTINATION	
1	※		
2	※		
3	M6751	EHPC1	
4	M6752	EHPC2	
5	M6753	EHPC3	
6	M6754	EHPC4	
7	M6755	EHPC5	
8	M6756	A-MIXER	
9	M6757	A-MIXER	
10	M6651	RELAY/BREAKER PANEL	
11			
12			
13	M6451	UF / CCB	
14	M6452	UF / CCB	
15	※		
16	※		
17	※		
18	MN241		
19	○		
20			
21			
22			
23			
24			
25			
26	M6300	P106	RD
27			
28	M6200	AIR-CON CONTROL PANEL	RD
29			
30	M6400	UF / S1V	RD
31			
32	○		
33	※		
34	M04	TMS TB	
35	M05	TMS TB	
36	M06	TMS TB	
37	※		
38	※		
39			
40			
41			
42	M6321	P106	BK
43	M6322	P106	WH
44	M6221	AIR-CON CONTROL PANEL	BK
45	M6222	AIR-CON CONTROL PANEL	WH
46	M6421	UF / S1V	BK
47	M6422	UF / S1V	WH
48	※		
49	※		
50	100		SHI

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M23	LJB2	BN
2	M23a	LJB2	BN
3	※		
4	※		
5	※		
6	M6521	UF / CONVERTER INVERTER	BK
7	M6121	BECU	BK
8	M6621	EDCU-D5	BK
9	M6631	EDCU-U5	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M24	LJB2	WH
19	M24a	LJB2	WH
20	○		
21			
22			
23	M6522	UF / CONVERTER INVERTER	WH
24	M6122	BECU	WH
25	M6622	EDCU-D5	WH
26	M6632	EDCU-U5	WH
27			
28			
29			
30			
31			
32	○		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF / CONVERTER INVERTER	RD
40	M6100	BECU	RD
41	M6600	EDCU-D5	RD
42	M6605	EDCU-U5	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

NOTES

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



2. INDICATES SHORT JUMPER ON CONNECTOR



3. WITH REMARK ※, INSERT DUMMY CONTACT.

4. WITH REMARK ○, SOLDER THE POLARIZING CONTACT.

5. INDICATES TWISTED CABLE (100G0121-1.50)



COLOR ABBREVIATION

BK BLACK  
WH WHITE  
BU BLUE  
YW YELLOW  
GN GREEN  
RD RED  
BN BROWN

ABBREVIATION

PID PASSENGER INFOMATION DISPLAY  
UEES UEED ACCESS DETECTION SWITCH  
DEES DEED ACCESS DETECTION SWITCH  
SHI SHIELD

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

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



運輸部  
Transport Division

TITLE  
SP1900 ELECTRIC MULTIPLE UNITS  
CONNECTION DIAGRAM  
TMS LOCAL UNIT PIN ASSIGNMENT (6/11)  
MWH CAR

KCRC	ER	MWH	A	1	B902
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP NO.	
SCALE					
NTS @ A1					
ORIGINATOR	ORIGINATOR REFERENCE			ORG REF REV	
KS	1-UB04126-06			b	
DRAWING NUMBER				REV	
SP1900AB/XK/RR/M6115				0	
RAILWAY	LOCATION	STAGE	SHEET NO		
ER	HTL	Z	1		

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M21G	LJB2	BN
2	M21	LJB2	BN
3	※		
4	※		
5	※		
6	M6521	UF/ CONVERTER INVERTER	BK
7	M6121	15P TB	BK
8	M6621	EDCU-U5	BK
9	M6631	EDCU-U5	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M22G	LJB2	WH
19	M22	LJB2	WH
20	◎		
21			
22			
23	M6522	UF/ CONVERTER INVERTER	WH
24	M6122	15P TB	WH
25	M6622	EDCU-U5	WH
26	M6632	EDCU-U5	WH
27			
28			
29			
30			
31			
32	◎		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF/ CONVERTER INVERTER	RD
40	M6100	15P TB	RD
41	M6600	EDCU-U5	RD
42	M6605	EDCU-U5	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

PID	PASSENGER INFORMATION DISPLAY
UEES	UEED ACCESS DETECTION SWITCH
DEES	DEED ACCESS DETECTION SWITCH
SHI	SHIELD

**運輸部**  
**Transport Division**

SP1900 ELECTRIC MULTIPLE UNITS  
CONNECTION DIAGRAM  
TMS LOCAL UNIT PIN ASSIGNMENT (7/11)  
PMH CAR

KCRC ER		PMH	A	1	B902
APPLIED CAR		CAR TYPE	GROUP	PCS/CAR	INSUR. GROUP NO.

SCALE

NTS @ A1

ORIGINATOR	ORIGINATOR REFERENCE	ORIG REF REV
KS	1-UB04126-07	b

DRAWING NUMBER	REV
SP1900AB/XK/RR/M6116	0

RAILWAY	LOCATION	STAGE	SHEET NO
ER	HTL	Z	1

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M23	LJB2	BN
2	M23a	LJB2	BN
3	※		
4	※		
5	※		
6			
7	M6121	BE CU	BK
8	M6621	EDCU-D2	BK
9	M6631	EDCU-U2	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M24	LJB2	WH
19	M24a	LJB2	WH
20	○		
21			
22			
23			
24	M6122	BE CU	WH
25	M6622	EDCU-D2	WH
26	M6632	EDCU-U2	WH
27			
28			
29			
30			
31			
32	○		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39			
40	M6100	BE CU	RD
41	M6600	EDCU-D2	RD
42	M6605	EDCU-U2	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

5. INDICATES TWISTED CABLE (100G0121-1.50)



4. WITH REMARK ①, SOLDER THE POLARIZING CONTACT.

**運輸部**  
**Transport Division**

SCALE			UNIT
NTS @ A1			
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04126-08	ORG REF REV D	
DRAWING NUMBER SP1900AB/XK/RR/M6117			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M21G	LJB2	BN
2	M21	LJB2	BN
3	※		
4	※		
5	※		
6	M6521	UF/ CONVERTER INVERTER	BK
7	M6121	BEUC	BK
8	M6621	EDCU-05	BK
9	M6631	EDCU-U5	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M22G	LJB2	WH
19	M22	LJB2	WH
20	◎		
21			
22			
23	M6522	UF/ CONVERTER INVERTER	WH
24	M6122	BEUC	WH
25	M6622	EDCU-05	WH
26	M6632	EDCU-U5	WH
27			
28			
29			
30			
31			
32	◎		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF/ CONVERTER INVERTER	RD
40	M6100	BEUC	RD
41	M6600	EDCU-05	RD
42	M6605	EDCU-U5	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	



4. WITH REMARK ①, SOLDER THE POLARIZING CONTACT.

DESIGNED BY NIL	 <b>KCR</b> 九廣鐵路	<b>運輸部</b> <b>Transport Division</b>
DRAWN BY SRD		
CHECKED BY K. Y. CHEUNG		
IN CHARGE C. C. HON		
DATE 26 JAN 2007		



**運輸部**  
**Transport Division**

SCALE		NTS @ 1:	
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04126-09	ORG REF REV b	
DRAWING NUMBER SP1900AB/XK/RR/M6118		REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

FULL SIZE A1

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M23	LJB2	BN
2	M23a	LJB2	BN
3	※		
4	※		
5	※		
6	M6521	UF / CONVERTER INVERTER	BK
7	M6121	1SP TB	BK
8	M6621	EDCU-D5	BK
9	M6631	EDCU-U5	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M24	LJB2	WH
19	M24a	LJB2	WH
20	○		
21			
22			
23	M6522	UF / CONVERTER INVERTER	WH
24	M6122	1SP TB	WH
25	M6622	EDCU-D5	WH
26	M6632	EDCU-U5	WH
27			
28			
29			
30			
31			
32	○		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF / CONVERTER INVERTER	RD
40	M6100	1SP TB	RD
41	M6600	EDCU-D5	RD
42	M6605	EDCU-U5	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

5. INDICATES TWISTED CABLE (100G0121-1.50)



- 1 ←
- 2 ←

4. WITH REMARK ②, SOLDER THE POLARIZING CONTACT.

TITLE SP1900 ELECTRIC MULTIPLE UNITS CONNECTION DIAGRAM  TMS LOCAL UNIT PIN ASSIGNMENT (10/11)  PM2 CAR	SCALE			
	NTS @ A1			
	ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB04126-10	QMS REF REV b	
	DRAWING NUMBER SP1900AB/XK/RR/M6119			REV 0
	RAILWAY	LOCATION	STAGE	SHEET NO
	ER	HTL	Z	1

TMS-LU			
CN-M6 (YW)			
PIN No.	WIRE No.	DESTINATION	
1	M21α	LJB1	BN
2	M21	LJB1	BN
3	※		
4	※		
5	※		
6	M6521	UF/ CONVERTER INVERTER	BK
7	M6121	BECU	BK
8	M6621	EDCU-D1	BK
9	M6631	EDCU-U1	BK
10			
11			
12			
13	※		
14	※		
15	※		
16	※		
17	100		SHI
18	M22α	LJB1	WH
19	M22	LJB1	WH
20	○		
21			
22			
23	M6522	UF/ CONVERTER INVERTER	WH
24	M6122	BECU	WH
25	M6622	EDCU-D1	WH
26	M6632	EDCU-U1	WH
27			
28			
29			
30			
31			
32	○		
33	※		
34	※		
35	※		
36	※		
37	※		
38	※		
39	M6500	UF/ CONVERTER INVERTER	RD
40	M6100	BECU	RD
41	M6600	EDCU-D1	RD
42	M6605	EDCU-U1	RD
43			
44			
45			
46	M02	RELAY/BREAKER PANEL	(BK)
47	※		
48	16	RELAY/BREAKER PANEL	(WH)
49	※		
50	100	EARTH TB	

PID	PASSENGER INFORMATION DISPLAY
UEES	UEED ACCESS DETECTION SWITCH
DEES	DEED ACCESS DETECTION SWITCH
SHI	SHIELD



4. WITH REMARK 0, SOLDER THE POLARIZING CONTACT.

KCRC WR		MHW	A	1	B902
APPLIED CAR		CAR TYPE	GROUP	PCS/CAR	CS TRNG. GROUP NO.

SCALE

NTS @ A1

ORIGINATOR	ORIGINATOR REFERENCE	ORIG REF. REV.
KS	1-UB04126-11	b

DRAWING NUMBER	REV
SP1900AB/XK/RR/M6120	0

RAILWAY	LOCATION	STAGE	SHEET NO
ER	HTL	Z	1