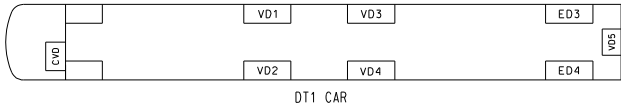


ABBREVIATION

ED3.4	EMERGENCY EXHAUST DAMPER
EDCR	ALL ED FULL CLOSED RELAY
EDOR	ALL ED FULL OPENED RELAY
EM	EMERGENCY EXHAUST DAMPER CONTROL
RA	RETURN AIR DAMPER CONTROL
VD1-5	VENTILATION DAMPER
VDCR	ALL VD FULL CLOSED RELAY
VDOR	ALL VD FULL OPENED RELAY



COMMAND SIGNAL			VENTILATION DAMPER (VD1-5) OPERATED STATUS	
RA1	RA2	RA3		
H	H	H	STEP-0	FULL CLOSE
H	H	L	STEP-1	
H	L	H	STEP-2	
H	L	L	STEP-3	
L	H	H	STEP-4	
L	H	L	STEP-5	FULL OPEN

COMMAND SIGNAL (C3107)		EMERGENCY DAMPER (ED1-4) OPERATED STATUS	
EM			
H		FULL CLOSE	
L		FULL OPEN	

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1	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE	1	26JAN2007				

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IN CHARGE C.C. HON
DATE 26JAN2007



TITLE	
SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EXHAUST DAMPER CONTROL CIRCUIT (1/7)	

	KCRC	ER	DT1	A	*	B901
	APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP NO.	
SCALE						
NTS @ A1						
ORIGINATOR		ORIGINATOR REFERENCE			ORIG REF REV	
KS		2-UB03149			f	
DRAWING NUMBER					REV	
SP1900AB/XC/RR/M5003					0	
RAILWAY		LOCATION	STAGE		SHEET NO	
ER		HTL	Z		1	



PM1 CAR

COMMAND SIGNAL (C3107)	EMERGENCY DAMPER (ED1-4) OPERATED STATUS
EM	
H	
L	

e	'01.06.22	CHANGED ABBREVIATION
---	-----------	----------------------

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IN CHARGE	C. C. HON
DATE	26 JAN 2007



KCRC	WR	PMI	A	*	B901
KCRC	ER	PMI	A	*	B901
APPLIED CAR		CAR TYPE	GROUP	PCS/CAR	KS DING- CAR NO.

SCALE					
NTS @ A1					
ORIGINATOR KS		ORIGINATOR REFERENCE 2-UB03149-2			ORIG REF REV e
DRAWING NUMBER SP1900AB/XC/RR/M5004					REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1		



M. TWH. CAR

COMMAND SIGNAL (C3107)	EMERGENCY DAMPER (ED1-4)
EM	OPERATED STATUS
H	FULL CLOSE
L	FULL OPEN

KCRC	WR	MHW	A	*	B901
KCRC	ER	TWH	A	*	B901
KCRC	ER	M	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DMC	GROUP No.

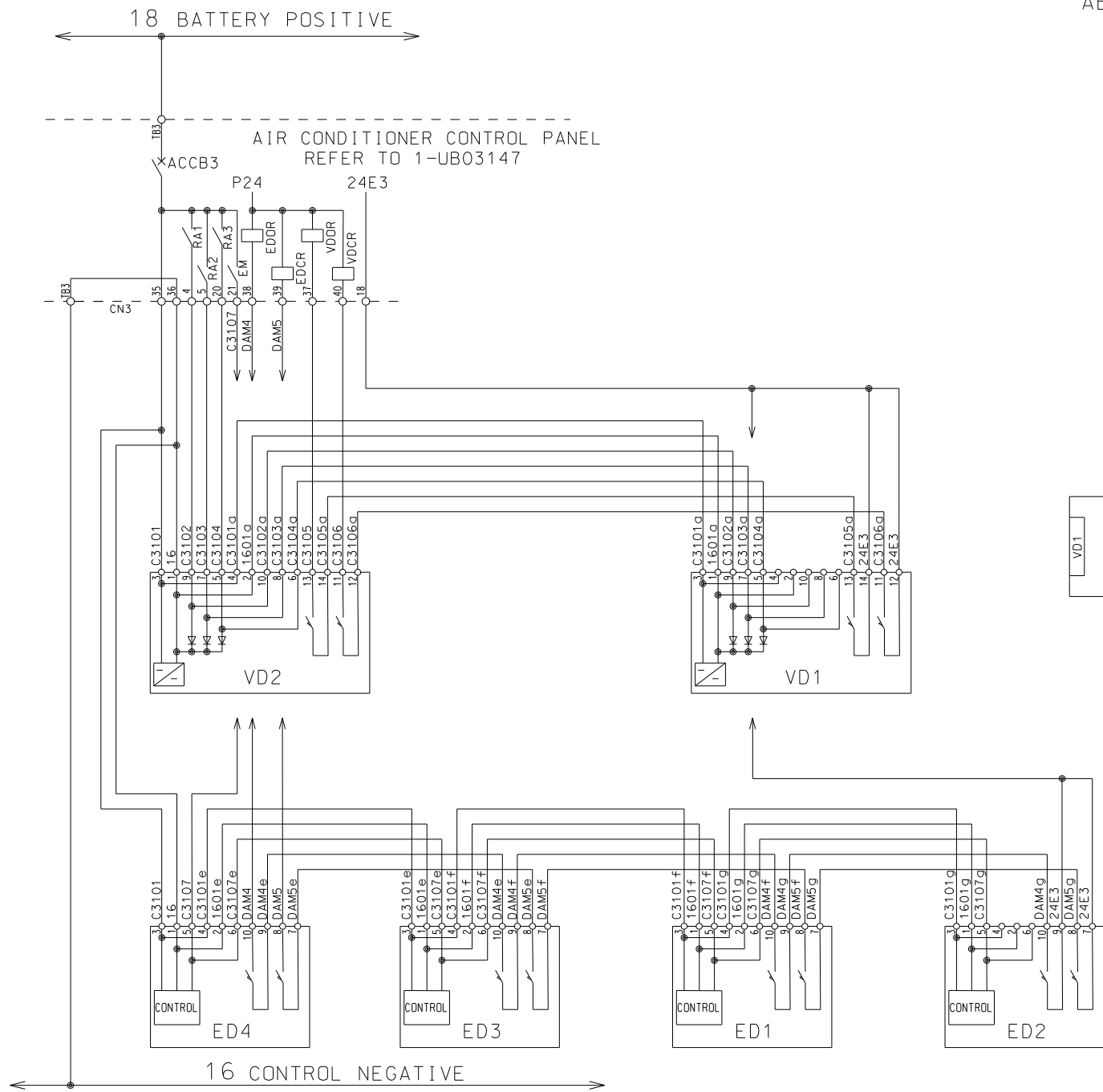
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TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EXHAUST DAMPER CONTROL CIRCUIT (3/7)
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SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 2-UB03149-3	ORG REF REV e	
DRAWING NUMBER SP1900AB/XC/RR/M5005			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1



ABBREVIATION

- ED1-4
- EDCR
- EDOR
- EM
- RA
- VD1.2
- VDCR
- VDOR
- EMERGENCY EXHAUST DAMPER
- ALL ED FULL CLOSED RELAY
- ALL ED FULL OPENED RELAY
- EMERGENCY EXHAUST DAMPER CONTROL
- RETURN AIR DAMPER CONTROL
- VENTILATION DAMPER
- ALL VD FULL CLOSED RELAY
- ALL VD FULL OPENED RELAY



TCH,TFH,MWH,MW2 CAR

COMMAND SIGNAL			VENTILATIONDAMPER (VD1-5)	
RA1	RA2	RA3	OPERATED STATUS	
H	H	H	STEP-0	FULL CLOSE
H	H	L	STEP-1	
H	L	H	STEP-2	
H	L	L	STEP-3	
L	H	H	STEP-4	
L	H	L	STEP-5	FULL OPEN

COMMAND SIGNAL (C3107)		EMERGENCY DAMPER (ED1-4)	
EM		OPERATED STATUS	
H		FULL CLOSE	
L		FULL OPEN	

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DATE 26JAN2007						

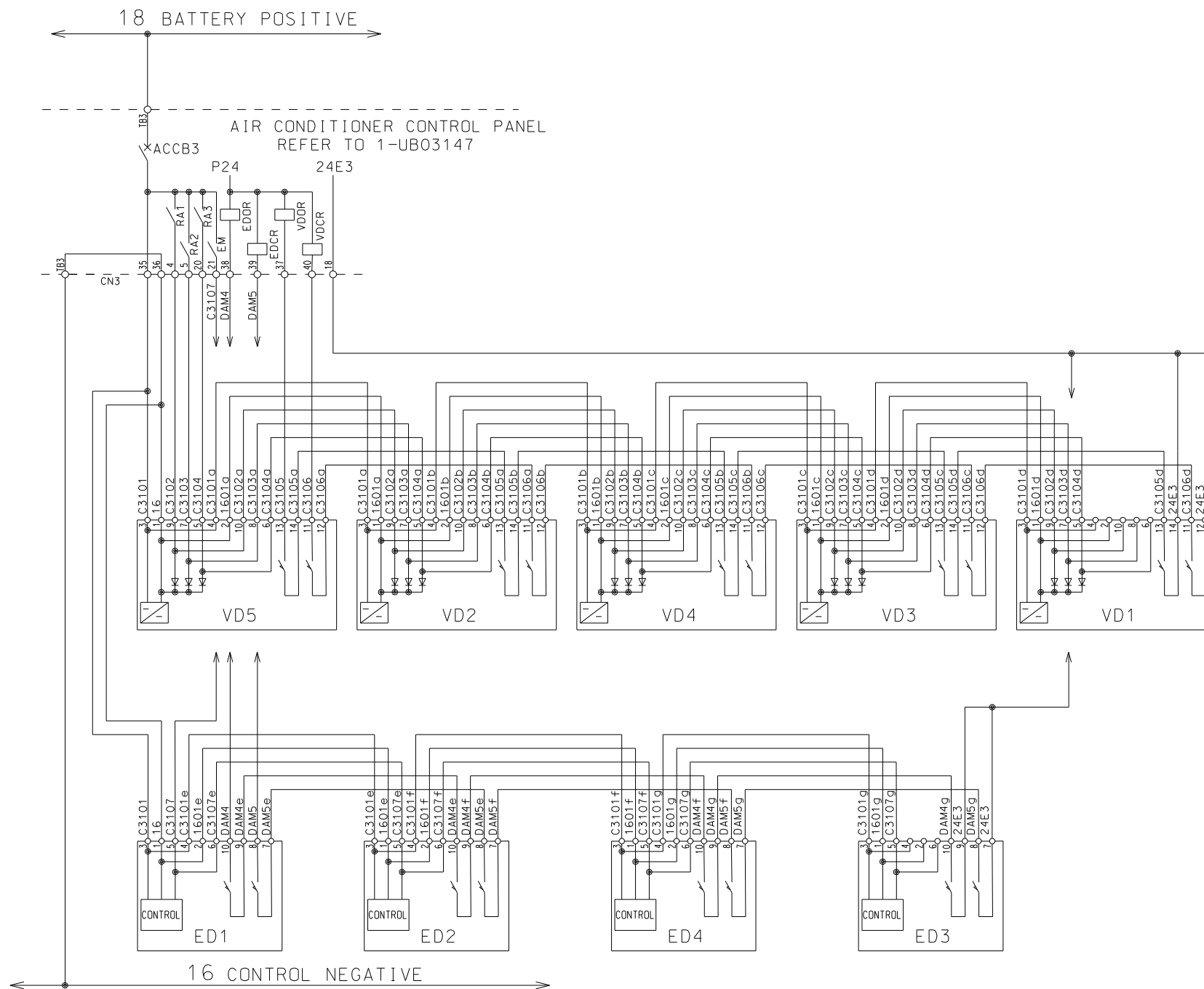
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TITLE
SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
EXHAUST DAMPER CONTROL CIRCUIT (4/7)

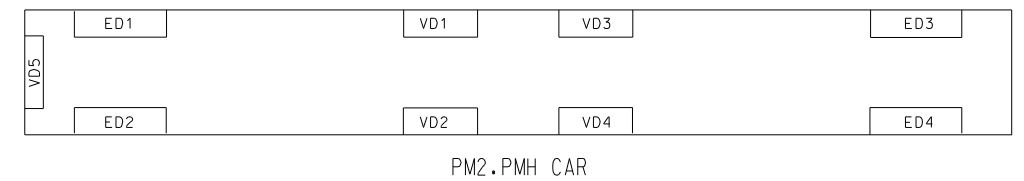
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KCRC	ER	TH2	A	*	B901
KCRC	ER	MW2	A	*	B901
KCRC	ER	MWH	A	*	B901
KCRC	ER	TCH	A	*	B901
KCRC	ER	TFH	A	*	B901
APPLIED CAR		CAR TYPE	GROUP	PCS/CAR	KS DWG. GROUP No.

SCALE					
NTS @ A1					
ORIGINATOR	ORIGINATOR REFERENCE			ORIG REF REV	
KS	2-UB03149-4			e	
DRAWING NUMBER				REV	
SP1900AB/XC/RR/M5006				0	
RAILWAY	LOCATION	STAGE	SHEET NO		
ER	HTL	Z	1		



ABBREVIATION

ED1-4	EMERGENCY EXHAUST DAMPER
EDCR	ALL ED FULL CLOSED RELAY
EDOR	ALL ED FULL OPENED RELAY
EM	EMERGENCY EXHAUST DAMPER CONTROL
RA	RETURN AIR DAMPER CONTROL
VD1-5	VENTILATION DAMPER
VDCR	ALL VD FULL CLOSED RELAY
VDOR	ALL VD FULL OPENED RELAY



COMMAND SIGNAL			VENTILATIONDAMPER (VD1-5) OPERATED STATUS
RA1	RA2	RA3	
H	H	H	STEP-0 FULL CLOSE
H	H	L	STEP-1
H	L	H	STEP-2
H	L	L	STEP-3
L	H	H	STEP-4
L	H	L	STEP-5 FULL OPEN

COMMAND SIGNAL (C3107)	EMERGENCY DAMPER (ED1-4) OPERATED STATUS
EM	
H	
L	

KCRC	WR	PM2	A	*	B901
KCRC	ER	PMH	A	*	B901
KCRC	ER	PM2	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DWG.	GROUP No.

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DATE	26 JAN 2007

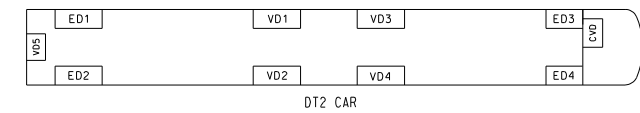


TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EXHAUST DAMPER CONTROL CIRCUIT (5/7)
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SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 2-UB03149-5	ORIG REF REV @	
DRAWING NUMBER SP1900AB/XC/RR/M5007			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1



ED1-4	EMERGENCY EXHAUST DAMPER	
EDCR	ALL ED FULL CLOSED RELAY	
EDOR	ALL ED FULL OPENED RELAY	
EM	EMERGENCY EXHAUST DAMPER	CONTROL
RA	RETURN AIR DAMPER CONTROL	
VD1-5	VENTILATION DAMPER	
VDCR	ALL VD FULL CLOSED RELAY	
VDOR	ALL VD FULL OPENED RELAY	



COMMAND SIGNAL			VENTILATIONDAMPER (VD1-5) OPERATED STATUS
RA1	RA2	RA3	
H	H	H	STEP-0 FULL CLOSE
H	H	L	STEP-1
H	L	H	STEP-2
H	L	L	STEP-3
L	H	H	STEP-4
L	H	L	STEP-5 FULL OPEN

COMMAND SIGNAL (C3107)	EMERGENCY DAMPER (ED1-4)
EM	OPERATED STATUS
H	FULL CLOSE
L	FULL OPEN

[illegible]

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TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EXHAUST DAMPER CONTROL CIRCUIT (6/7)
-------	--

KCRC	WR	DT2	A	*	B901
KCRC	ER	DT2	A	*	B901
APPLIED CAR		CAR TYPE	GROUP	PCS/CN	KS DWG. REG. NO.

SCALE					
NTS @ A1					
ORIGINATOR		ORIGINATOR REFERENCE		ORIG REF REV	
KS		2-U0B3149-6		f	
DRAWING NUMBER					REV
SP1900AB/XC/RR/M5008					0
RAILWAY		LOCATION		STAGE	SHEET NO
ER		HTL		Z	1



DT1 CAR

COMMAND SIGNAL (C3107)	EMERGENCY DAMPER (ED1-4)
EM	OPERATED STATUS
H	FULL CLOSE
L	FULL OPEN

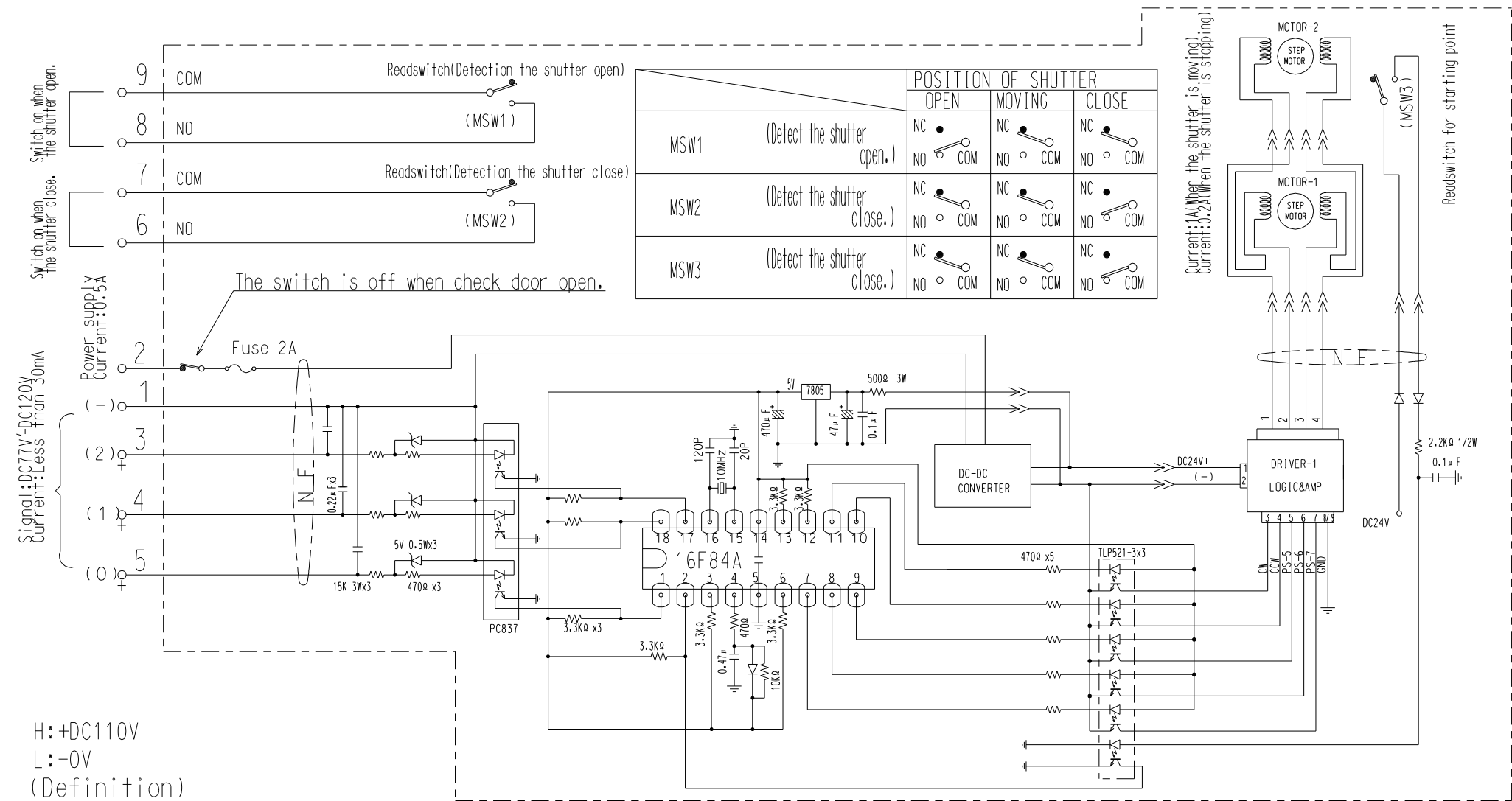
KCRC WR	DT2	A	*	B901
KCRC WR	DT1	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	KS DNG. GROUP NO.

DESIGNED BY NIL	 KCR 九廣鐵路	運輸部 Transport Division
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CHECKED BY K.Y.CHEUNG		
IN CHARGE C.C.HON		
DATE 26JAN2007		



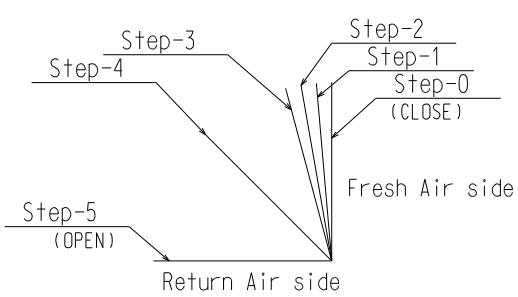
TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EXHAUST DAMPER CONTROL CIRCUIT (7/7)
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SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 2-UB03149-7	ORIG REF REV 1	
DRAWING NUMBER SP1900AB/XC/RR/M5009			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1



H: +DC110V
L: -0V
(Definition)
[CLOSE] Return Air:100%/Fresh Air:0% Step-0
[OPEN] Return Air:0%/Fresh Air:100% Step-5

Angle of the shutter	Power input		
	2	1	0
Step-0	H	H	H
Step-1	H	H	L
Step-2	H	L	H
Step-3	H	L	L
Step-4	L	H	H
Step-5	L	H	L

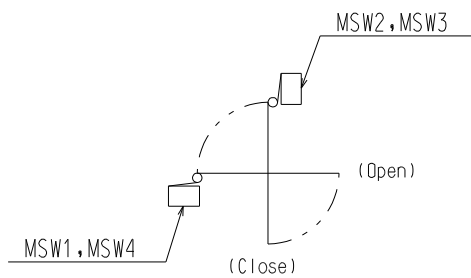


























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1	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE

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MANUFACTURER TOSHIBA CARRIER CORPORATION		MANUFACTURER'S DRAWING No. K-35679 REV. B			
TITLE SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC FRESH / RETURN AIR DAMPER (2/2)	SCALE NTS @ A1				
	ORIGINATOR TOSHIBA		ORIGINATOR REFERENCE K-35679		ORG REF REV B
	DRAWING NUMBER SP1900AB/XC/RR/M5010				REV 0
	RAILWAY ER		LOCATION HTL	STAGE Z	SHEET NO 1



	POSITION OF SHUTTER		
	OPEN	MOVING	CLOSE
MSW1 (Detect the shutter open.)	NC  NO  COM	NC  NO  COM	NC  NO  COM
MSW2 (Detect the shutter close.)	NC  NO  COM	NC  NO  COM	NC  NO  COM
MSW3 (Detect the shutter close.)	NC  NO  COM	NC  NO  COM	NC  NO  COM
MSW4 (Detect the shutter open.)	NC  NO  COM	NC  NO  COM	NC  NO  COM

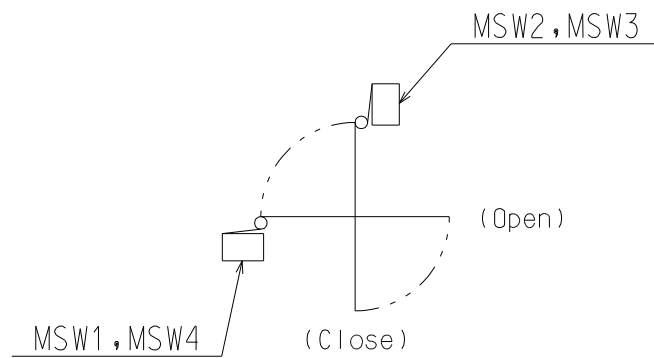
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MANUFACTURER TOSHIBA CARRIER CORPORATION		MANUFACTURER'S DRAWING No. K-35751 REV. A				
TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC EMERGENCY DAMPER (2/2)		SCALE			
			NTS @ A1			
			ORIGINATOR TOSHIBA	ORIGINATOR REFERENCE K-35751	ORIG REF A	
			DRAWING NUMBER SP1900AB/XC/RR/M5011		REV 0	
			RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

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		POSITION OF SHUTTER		
		OPEN	MOVING	CLOSE
MSW1	(Detect the shutter open.)	NC NO  COM	NC NO  COM	NC NO  COM
MSW2	(Detect the shutter close.)	NC NO  COM	NC NO  COM	NC NO  COM
MSW3	(Detect the shutter close.)	NC NO  COM	NC NO  COM	NC NO  COM
MSW4	(Detect the shutter open.)	NC NO  COM	NC NO  COM	NC NO  COM

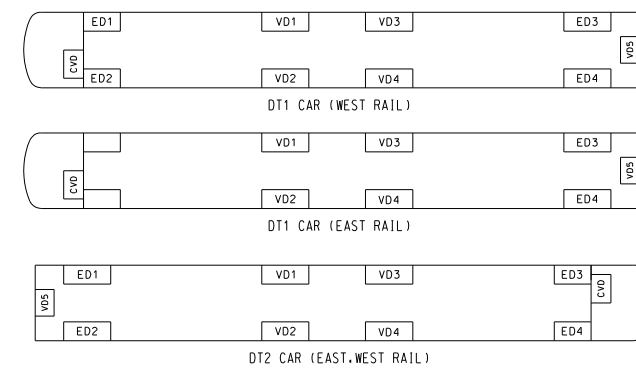
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MANUFACTURER TOSHIBA CARRIER CORPORATION		MANUFACTURER'S DRAWING No. K-35752 REV. B	
TITLE SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC FRESH AIR DAMPER (2/2)	SCALE NTS @ A1		
	ORIGINATOR TOSHIBA	ORIGINATOR REFERENCE K-35752	ORG REF REV B
	DRAWING NUMBER SP1900AB/XC/RR/M5012		REV 0
	RAILWAY ER	LOCATION HTL	STAGE Z



COMMAND SIGNAL (C3108, C4131)	CAB VENTILATION DAMPER(CVD) OPERATED STATUS
EM	
H	
L	

KCRC WR	DT2	A	*	B901
KCRC WR	DT1	A	*	B901
KCRC ER	DT2	A	*	B901
KCRC ER	DT1	A	*	B901
APPLIED CAR	CAR TYPE	GROUP	PCS/CAR	K5 DRG- GROUP No.

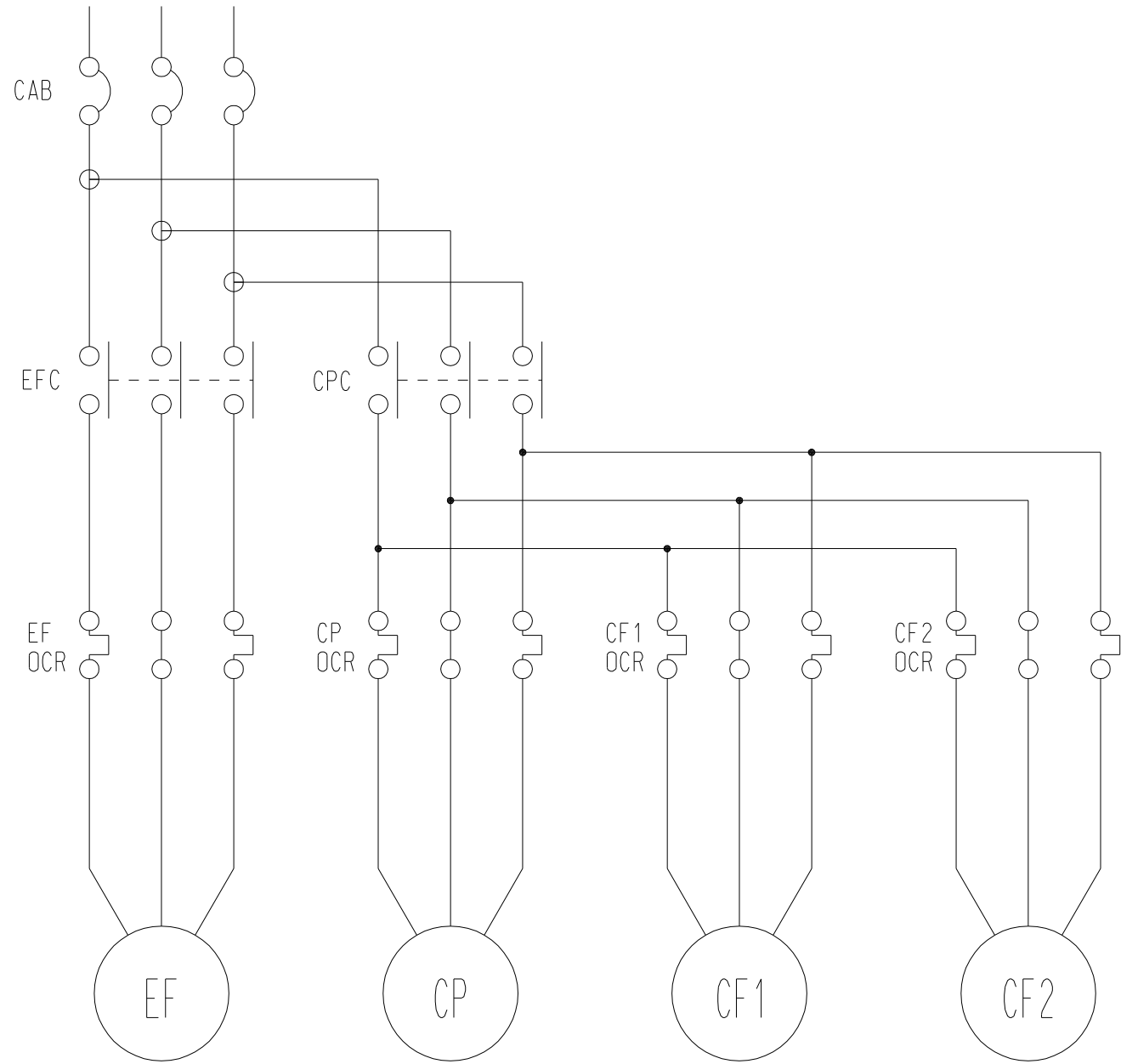
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TITLE	SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC CAB AIR CONDITIONER CONTROL CIRCUIT
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SCALE		NTS @ A1	
ORIGINATOR KS	ORIGINATOR REFERENCE 2-UB03744	ORIG REF REV g	
DRAWING NUMBER SP1900AB/XC/RR/M5001			REV 0
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

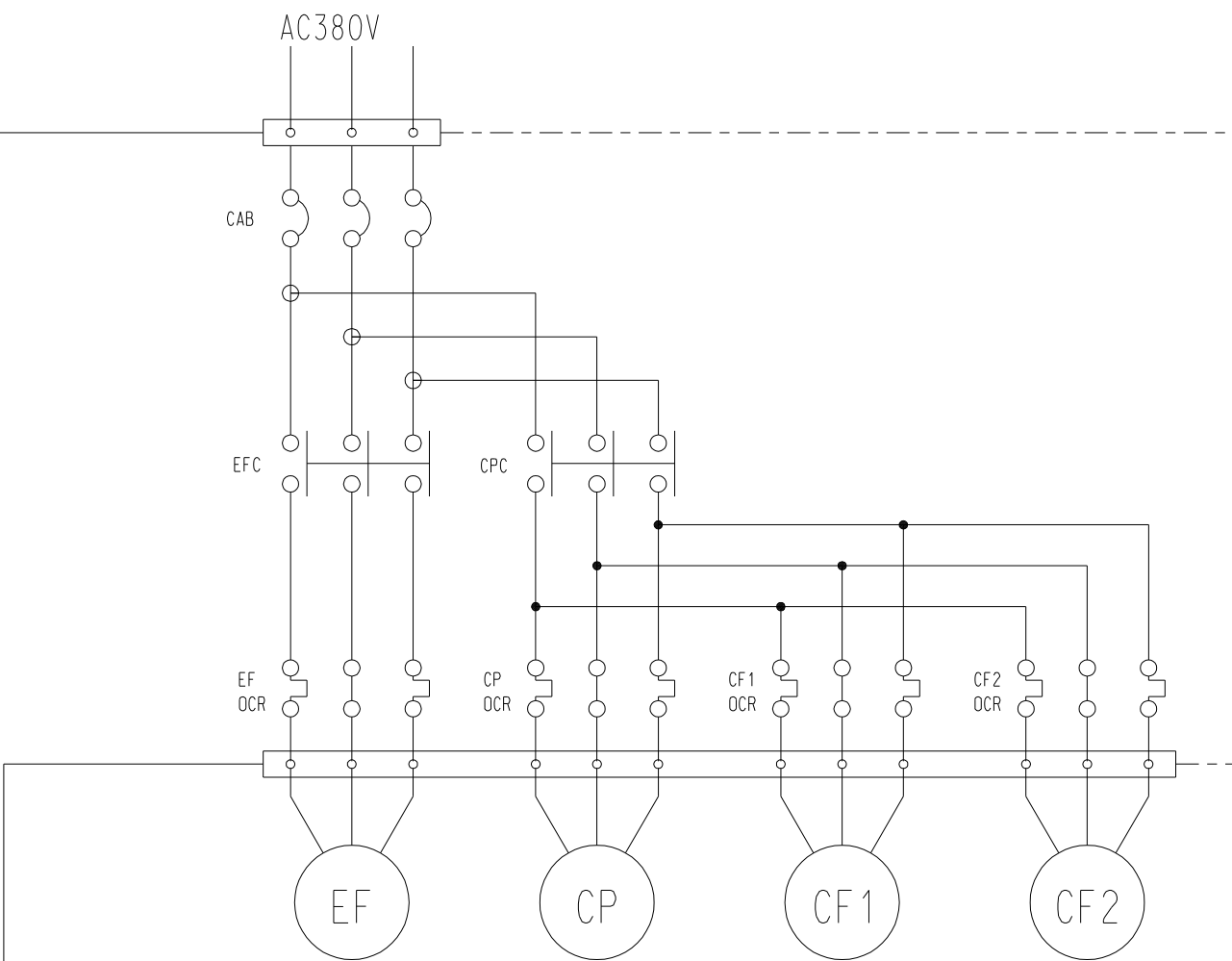
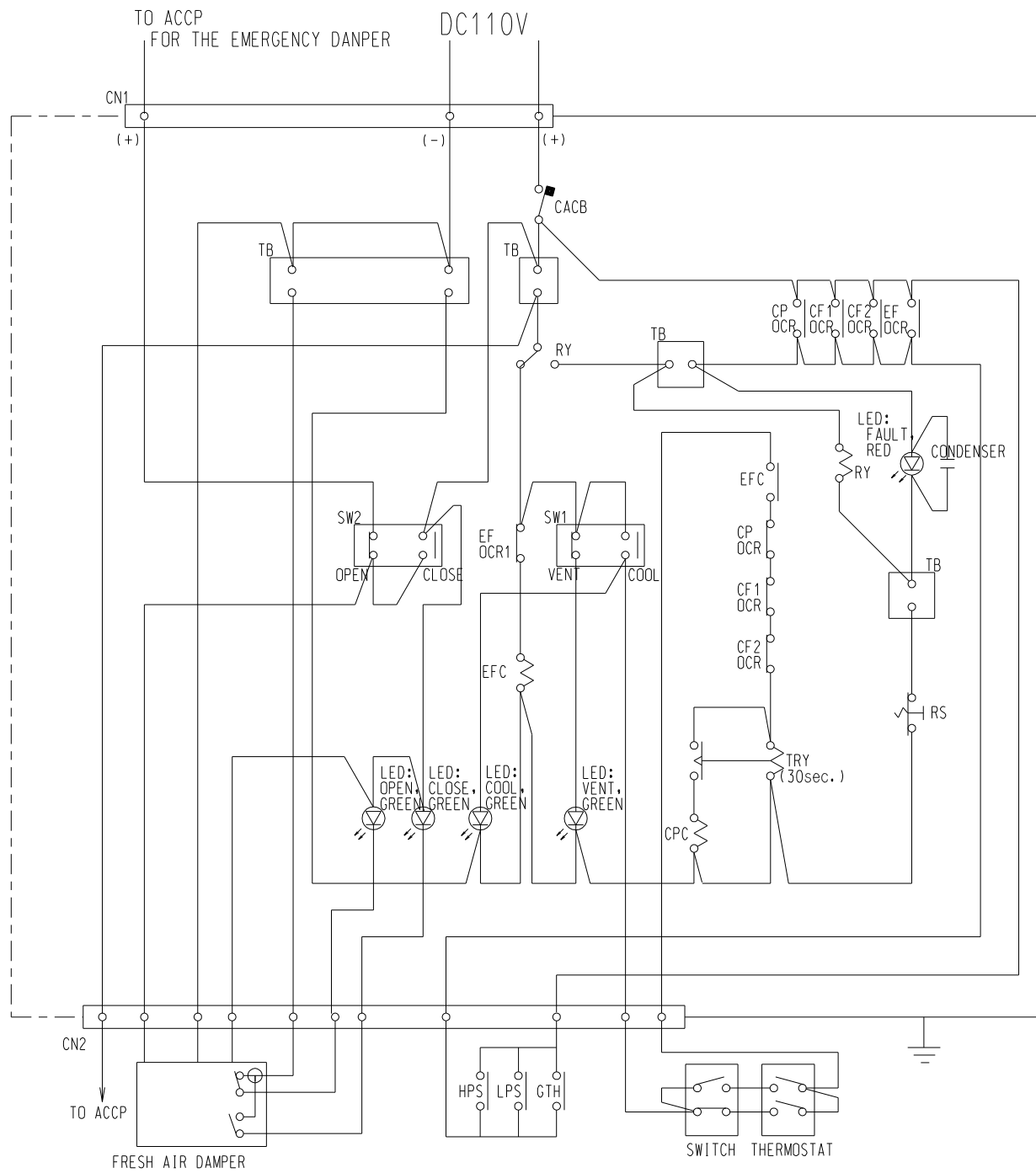


ABBREVIATION	PARTS	DESCRIPTION
CAB	NO FUSE BREAKER	
CPC	MAGNETIC CONTACTOR	COMPRESSOR
EFC	MAGNETIC CONTACTOR	EVAPORATOR FAN
CPOCR	OVER CURRENT RELAY	COMPRESSOR
CF1OCR	OVER CURRENT RELAY	CONDENSER FAN
CF2OCR	OVER CURRENT RELAY	CONDENSER FAN
EFOCR	OVER CURRENT RELAY	EVAPORATOR FAN
CP	COMPRESSOR	
CF1	CONDENSER FAN	
CF2	CONDENSER FAN	
EF	EVAPORATOR FAN	

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△						△						DRAWN BY SRD
△						△						CHECKED BY K.Y.CHEUNG
△						△						IN CHARGE C.C.HON
△						△						DATE 26JAN2007
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REV	DATE	BY	SUB	APP		DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION



MANUFACTURER TOSHIBA CARRIER CORPORATION			MANUFACTURER'S DRAWING No. RN-4504-94 REV. 2		
TITLE SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC SCHEMATIC DIAGRAM OF CAB AIR CONDITIONER POWER CIRCUIT			SCALE NTS @ A1		
ORIGINATOR TOSHIBA	ORIGINATOR REFERENCE RN-4504-94	ORG REF REV 2			
DRAWING NUMBER SP1900AB/XC/RR/M5013			REV 0		
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1		



ABBREVIATION	PARTS	DESCRIPTION	ABBREVIATION	PARTS	DESCRIPTION
CACB	NO FUSE BREAKER		RS	PUSH SWITCH	
CPC	MAGNETIC CONTACTOR	COMPRESSOR	TB	TERMINAL BLOCK	
EFC	MAGNETIC CONTACTOR	EVAPORATOR FAN	CN1	CONTACT	POWER INPUT
CPOCR	OVER CURRENT RELAY	COMPRESSOR	CN2	CONTACT	OUTPUT
CF1OCR	OVER CURRENT RELAY	CONDENSER FAN	HPS	HIGH PRESSURE SWITCH	
CF2OCR	OVER CURRENT RELAY	CONDENSER FAN	LPS	LOW PRESSURE SWITCH	
EFOCR	OVER CURRENT RELAY	EVAPORATOR FAN	GTH	THERMOSTAT	COMPRESSOR
RY	RELAY		CAB	NO FUSE BREAKER	
TRY	TIMER		CP	COMPRESSOR	
LED	LIGHT EMITTING DIODE		CF1	CONDENSER FAN	
SW1	SWITCH		CF2	CONDENSER FAN	
SW2	SWITCH		EF	EVAPORATOR FAN	

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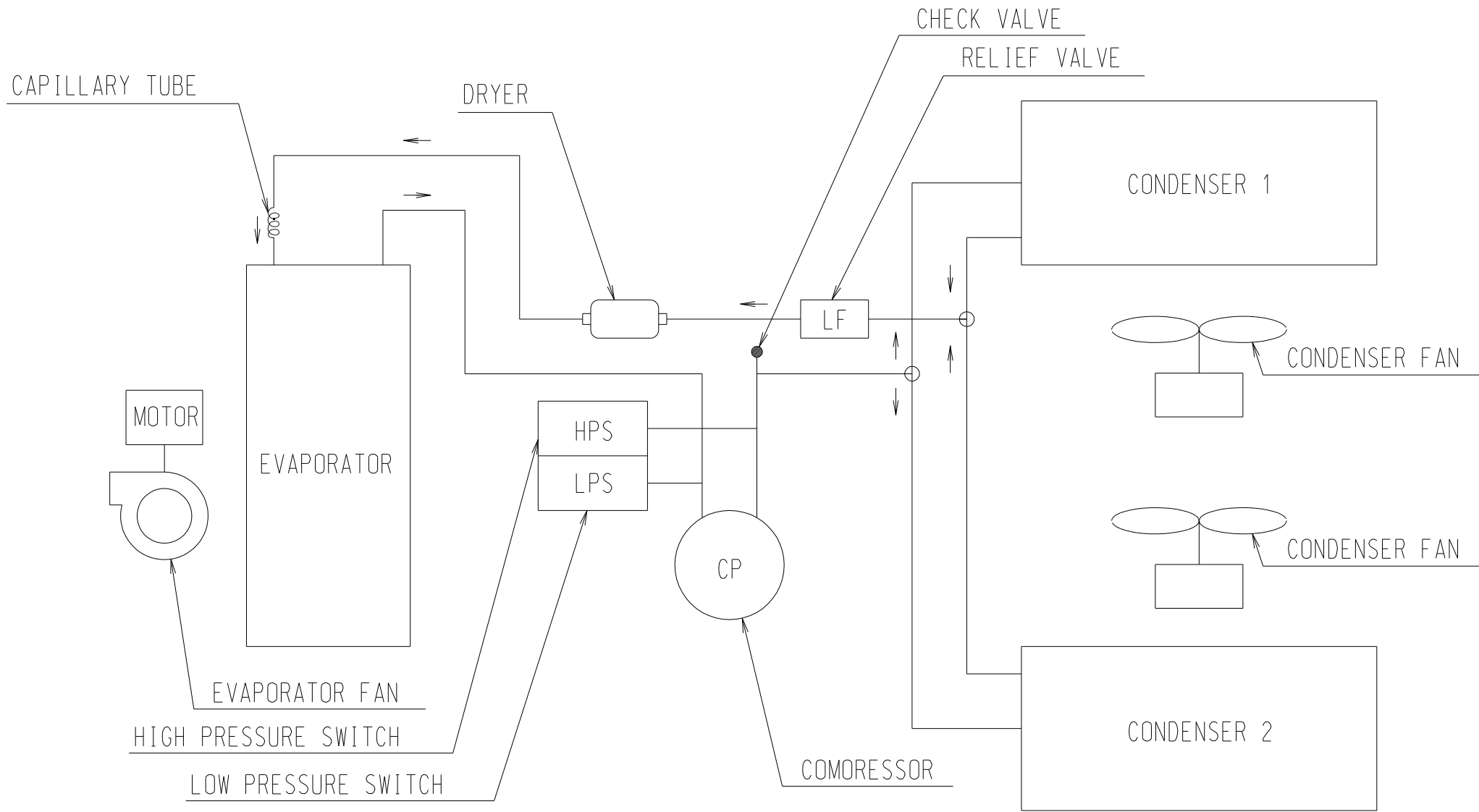
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REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
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DATE 26JAN2007



MANUFACTURER TOSHIBA CARRIER CORPORATION		MANUFACTURER'S DRAWING No. RN-4504-95 REV. 3				
TITLE SP1900 ELECTRIC MULTIPLE UNITS ELECTRICAL SCHEMATIC SCHEMATIC DIAGRAM OF CAB AIR CONDITIONER CONTROL CIRCUIT		SCALE NTS @ A1				
		ORIGINATOR TOSHIBA		ORIGINATOR REFERENCE RN-4504-95		ORIG REF REV 3
		DRAWING NUMBER SP1900AB/XC/RR/M5014			REV 0	
		RAILWAY ER		LOCATION HTL	STAGE Z	SHEET NO 1



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REV	DATE	BY	SUB	APP	DESCRIPTION
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運輸部
Transport Division

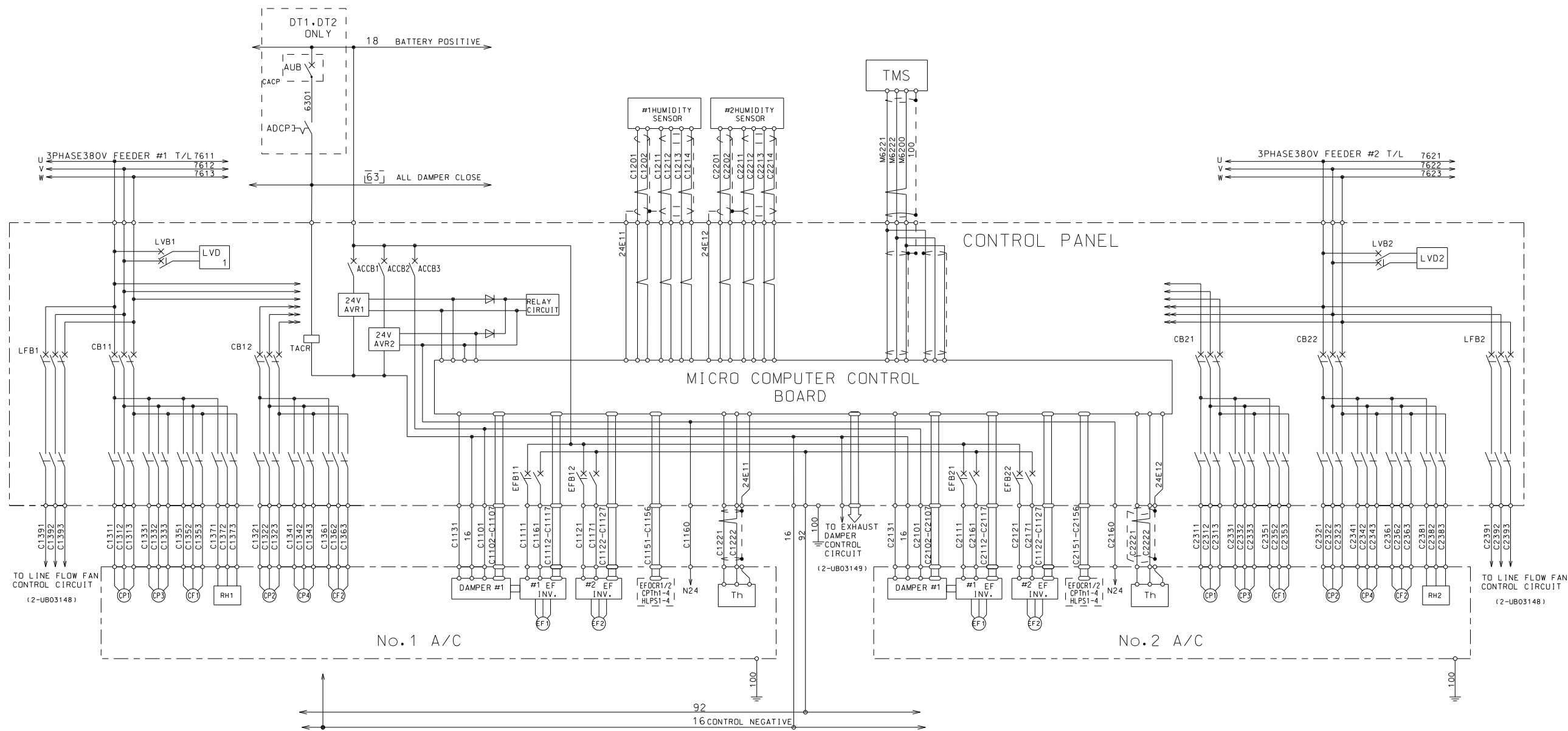
TITLE

SP1900 ELECTRIC MULTIPLE UNITS
CIRCUIT DIAGRAM
CAB AIR CONDITIONER SCHEME
OF REFRIGERATING CIRCUIT

MANUFACTURER
TOSHIBA CARRIER
CORPORATION

MANUFACTURER'S DRAWING No.
SSD-NJ-D0031 REV.2

SCALE			
NTS @ A1			
ORIGINATOR TOSHIBA	ORIGINATOR REFERENCE SSD-NJ-D0031	DRC REF REV 2	
DRAWING NUMBER SP1900AB/XC/RR/N7001		REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

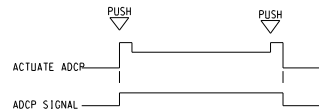


ABBREVIATION

ADCP : ALL DAMPER CLOSE PUSH BUTTON
ACCB : AIR CONDITIONER CONTROL CIRCUIT BREAKER

NOTE

ADCP IS ALTERNATE SWITCH.
IF ADCP PUSHED,KEEP TO MAKE SIGNAL TO CLOSE
DAMPERS UNTIL ADCP PUSHED AGAIN.



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

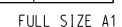
DESIGNED BY	NIL
DRAWN BY	SRD
CHECKED BY	K.Y. CHEUNG
IN CHARGE	C.C. HON
DATE	26JAN2007



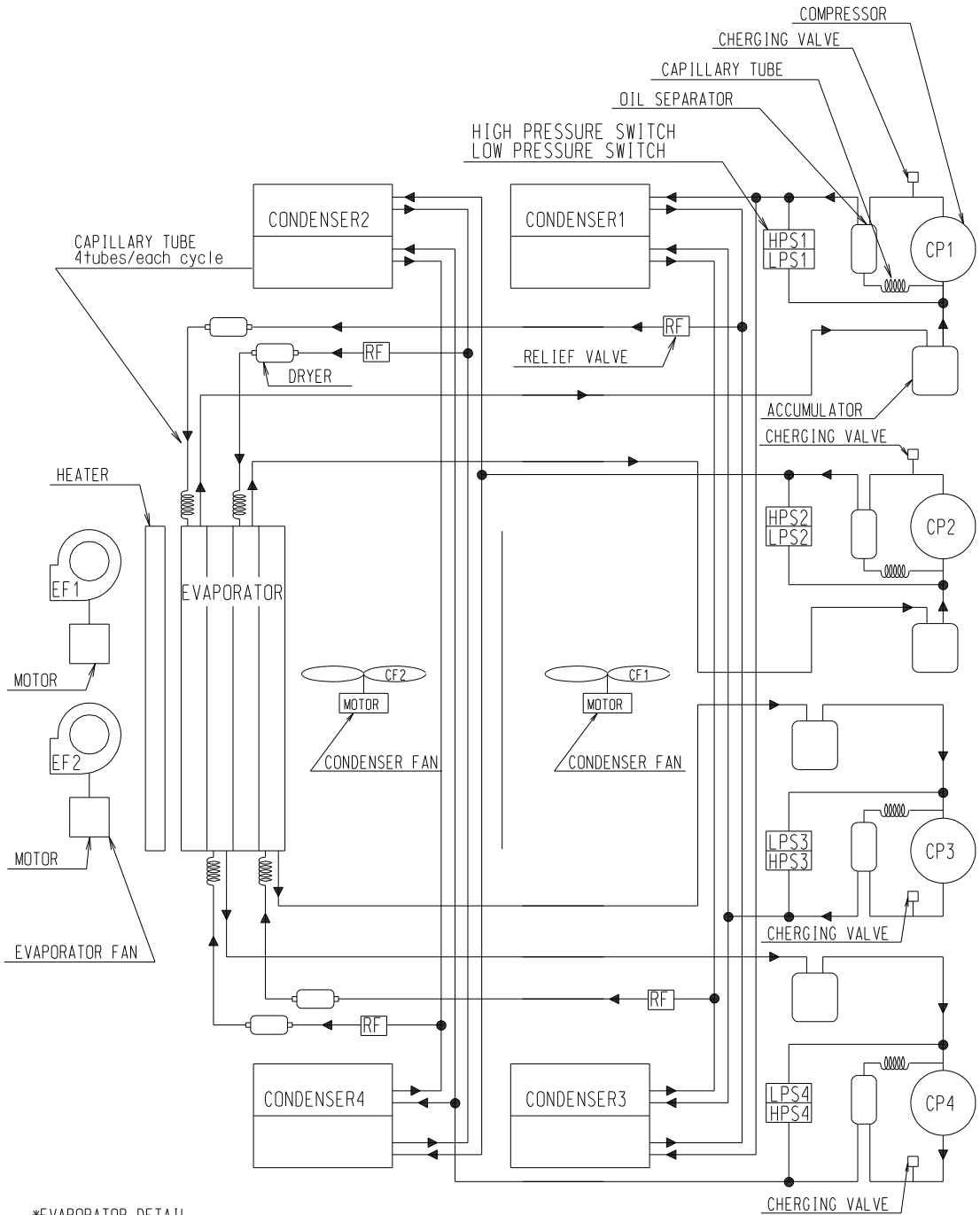
TITLE
SP1900 ELECTRIC MULTIPLE UNITS
ELECTRICAL SCHEMATIC
SALOON AIR CONDITIONER
CONTROL CIRCUIT

SCALE			
NTS @ A1			
ORIGINATOR KS	ORIGINATOR REFERENCE 1-UB03147	ORG REF REV f	
DRAWING NUMBER SP1900AB/XC/RR/M5000		REV 0	
RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1

MICROCOMPUTER CONTROL BOARD (STAND BY DOUBLE SYSTEM)



SALOON AIR CONDITIONER
SCHEME OF REFRIGERATING CIRCUIT



*EVAPORATOR DETAIL
: REFER TO RN-4504-82
*CONDENSER DETAIL
: REFER TO RN-4504-83

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PLOT DRV:\$PLTDV\$L\$
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DESIGNED BY NIL	26JAN07	SRD	K.Y.	C.C.	FIRST ISSUE
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CHECKED BY K.Y. CHEUNG					
IN CHARGE C. C. HON					
DATE 26JAN2007					

REV	DATE	BY	SUB	APP	DESCRIPTION



MANUFACTURER TOSHIBA CARRIER CORPORATION		MANUFACTURER'S DRAWING No. SSD-NJ-D0030 REV.13			
TITLE SP1900 ELECTRIC MULTIPLE UNITS CIRCUIT DIAGRAM SALOON AIR CONDITIONER SCHEME OF REFRIGERATING CIRCUIT		SCALE NTS @ A1			
		ORIGINATOR TOSHIBA		ORIGINATOR REFERENCE SSD-NJ-D0030	
				DRC REF 13	
		DRAWING NUMBER SP1900AB/XC/RR/N7000		REV 0	
		RAILWAY ER	LOCATION HTL	STAGE Z	SHEET NO 1