V E C T Series Robot Preventive Maintenance and Parts Service

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Figure and method on this document is based on VECT-400D Model,
Actual figure, method and step might be little different.

3.1 Maintenance Items

This robot has the following daily inspection and regular inspection for the maintenance items..

- Inspection for the pre-operation
- Inspection after one month operation
- Inspection after three months operation
- Every monthly inspection
- Every three months inspection
- Every six months inspection
- Every yearly inspection

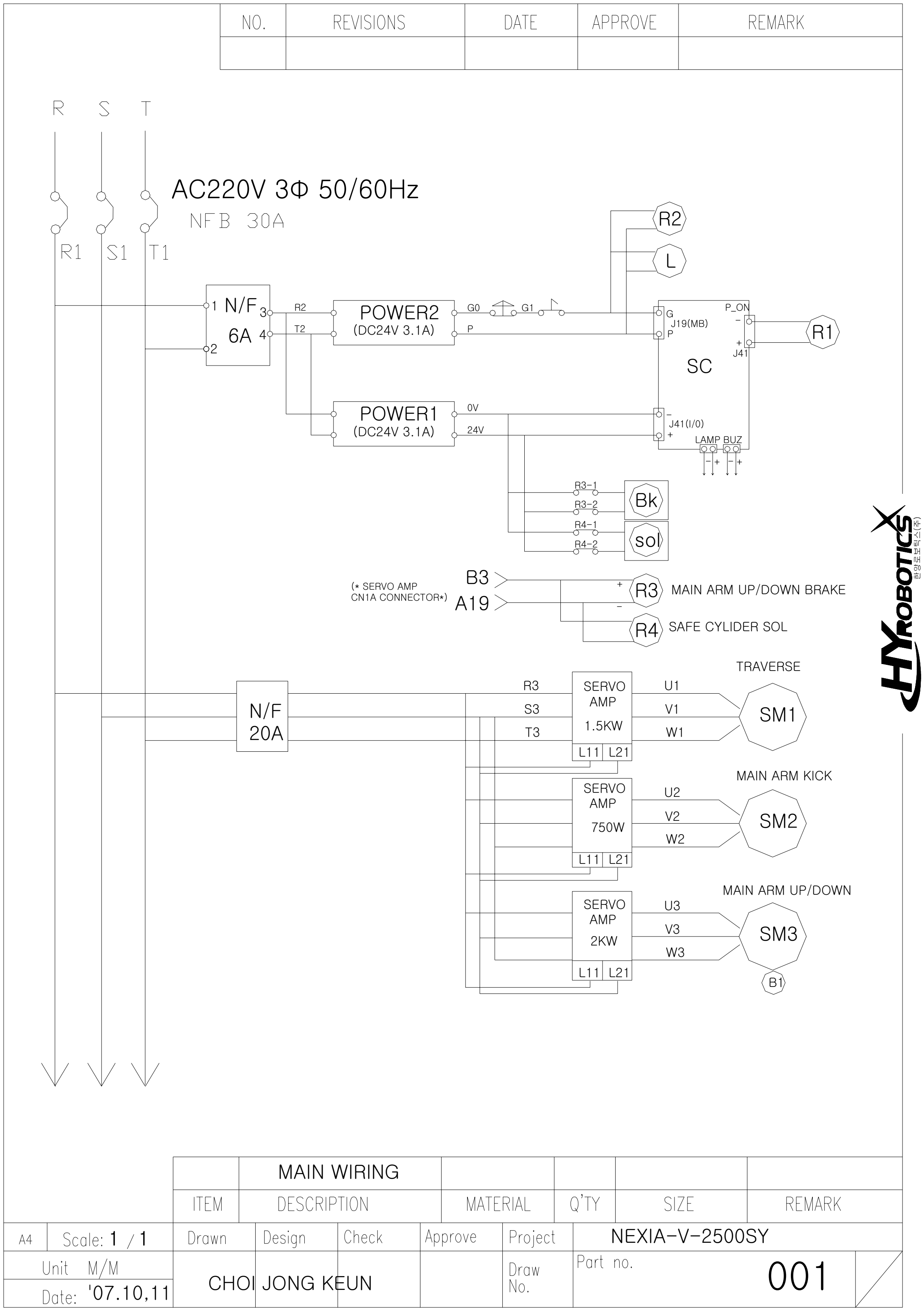
NOTE	• Following the maintenance inspection schedule table, please make the inspection table for each robot. • Using the table, please check the maintenance of the robot.

Inspection list			Maintenance period: pre-operation	Initial inspection: After one month	Initial inspection: After three month	Every monthly	Every three months	Every six months	Yearly check	Inspection date				Note
Traverse unit	The timing belt pulley													
	1	Looseness and rumble of each installed pulley.			●				●					
	2	Looseness of timing belts		●	●	●	●	●	●					
	The motor													
	1	Looseness and rumble of each installed motor			●	●	●	●	●					
	2	Connection of the pulley			●				●					
	3	Miss the origin location							●					
	The guide rail and track roller bearing													
	1	The grease condition			●		●	●	●					
Kick/forward unit	The Motor, pulley and timing belt													
	1	Looseness and rumble of each installed motor			●				●					
	2	Looseness of the motor pulley			●									
	3	Looseness of the passive pulley			●				●					
	4	Looseness of timing belts		●	●	●	●	●	●					
	5	Miss the origin location							●					
	The guide rail													
	1	Grease condition			●		●	●	●					
Chuck rotation unit	The rotational bracket													
	1	Damage of the bracket			●				●					
	2	A looseness of the bracket		●	●	●	●	●	●					
	The rotational cylinder													
	1	Air leakage		●	●	●	●	●	●					
	2	Damage of the cylinder			●				●					
	3	Cylinder load connection		●					●					
	The chuck rotation case													
	1	Damage of the case			●				●					

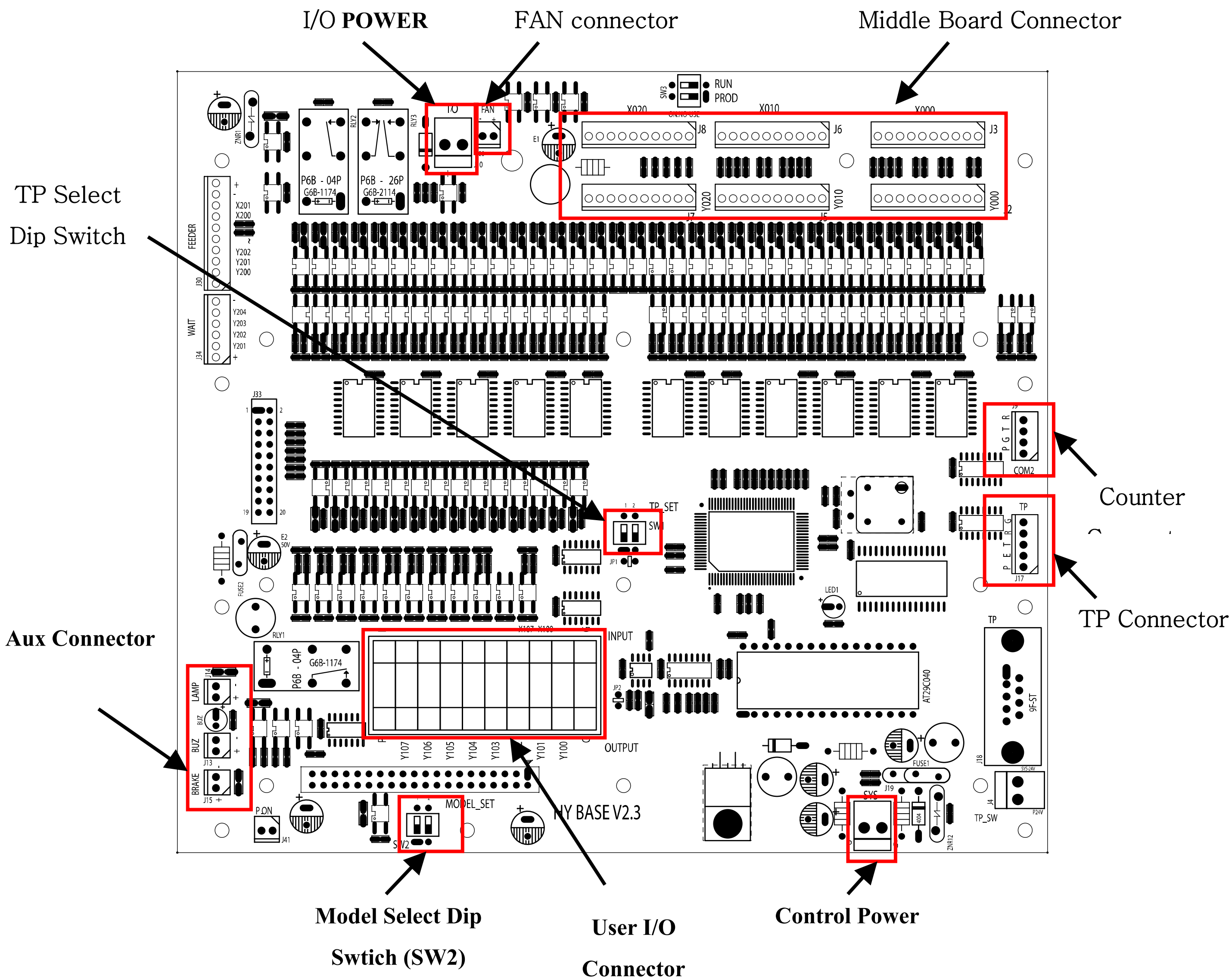
	2	A rumble of the case		●					●					
Inspection list			period											Note
			Pre-operation	Initial inspection		Every month	Every three months	Every six months	Yearly check	Inspection date				
				After one month	After three month									
Up & down unit	The frame													
	1	Looseness of each installed frame		●					●					
	2	Frame damage and aberration		●	●	●	●	●	●					
	3	Unit cover damage and looseness		●					●					
	The timing belt and pulley													
	1	Looseness of each installed pulley		●	●	●	●	●	●					
	2	damage of the timing belt		●	●	●	●	●	●					
	The guide rail													
	1	Grease condition			●		●	●	●					
Pneumatic system	Filter and regulator unit													
	1	Air regulator condition							●					
	2	Adjustment of the air pressure	●	●	●	●	●	●	●					
	3	Filter condition	●	●	●	●	●	●	●					
	Air pressure piping													
	1	Air leakage	●	●	●	●	●	●	●					
	2	Condition of the pipe binder	●	●	●	●	●	●	●					
	Vacuum device													
	1	Damage of the vacuum device		●					●					
	2	Function of the device		●	●	●	●	●	●					
	3	Function of the filter	●	●	●	●	●	●	●					
	The air exhauster													
	1	Damage of the air exhauster		●					●					
	The solenoid valve													
	1	Air leakage	●	●	●	●	●	●	●					
	2	Damage and looseness		●					●					
	3	Function							●					

Inspection list			period											Note
			pre-operation	Initial inspection		Every one month	Every three months	Every six months	Yearly check	Inspection date				
				After one month	After three months									
Body	The body													
	1	Looseness of the body		●	●	●	●	●	●					
	2	Looseness of the supports		●	●	●	●	●	●					
	3	Damage of the body		●	●	●	●	●	●					
	Abnormal condition in previous inspection													
	1	Inspection for the better	●											
Electrical device	The control box													
	1	Power and the wiring connection		●				●	●					
	2	Servo amplifier and its connection		●				●	●					
	3	Function of the motion board		●				●	●					
	4	Function of the system controller		●				●	●					
	5	Interface board and its relay contacts		●				●	●					
	6	Condition of the molding machine and interlocking	●	●	●	●	●	●	●					
	7	Condition of the cooling fan		●				●	●					
	8	Looseness of each connector and encoder cable		●				●	●					
	The touch controller													
	1	Function of the emergency stop button	●	●	●	●	●	●	●					
	2	Function of the power button							●					
	3	Condition of the display							●					
	4	Damage of the display							●					
	The sensors and the buttons													
	1	Condition of the sensors and buttons	●	●				●	●					
	2	Secure status of Wiring Binding		●	●	●	●	●	●					
	The wiring													

G MAIN WIRING



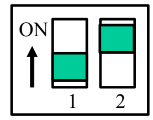
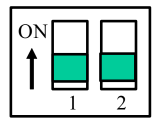
H. SYSTEM CONTROL (SC) BOARD



H.1 Model Selection Dip Switch (SW2)

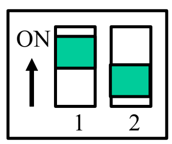
Select as the number of MBD

- If MBD q'ty is 1, No1 Dipswitch is OFF, No 2 is ON
- If MBD q'ty is 2, All Dipswitch is off

Model Name	No 1MBD	No 2 MBD	Setting of DIP SW2
NEXIA-3X	MBD-4X	Not in Use	
NEXIA-5X	MBD-4X	MBD-4X	

H.2 Dip switch for selection of TP(Touch Panel)

In 2 Pin Dip Switch . No1 is on and No 2 is off



H.3 TP Connector (Touch Panel Connecter)

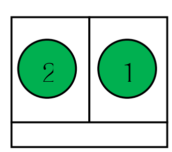
- Connector No.

Pin No	Name	Direction
P	P24V	OUT
E	EMERGENCY	IN
T	TX	OUT
R	RX	IN
G	GND	OUT

H.4 Separate Electric Connection

Separated 24V Control Power and I/O power

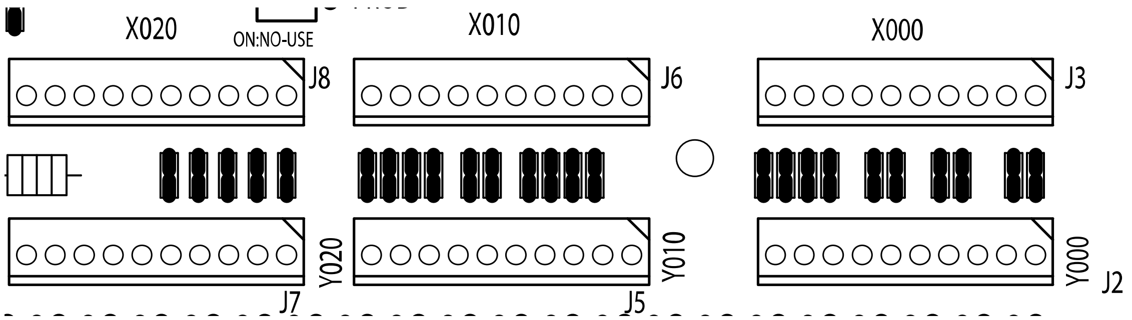
Pin No	Control Power	I/O Power	Power
	Connector J19	Connetor J10	
1	G	-	GND
2	P	+	24V



H.5 Middle Board Connector

Middle Board Connector J2, J3, J5, J6, J7, J8

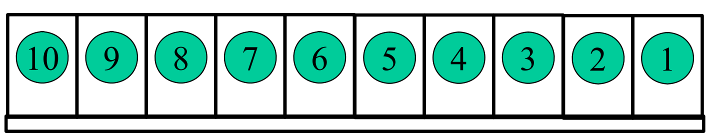
- Connection middle board to X000, Y000, X010, Y010, X020, Y020 1 :1 connection



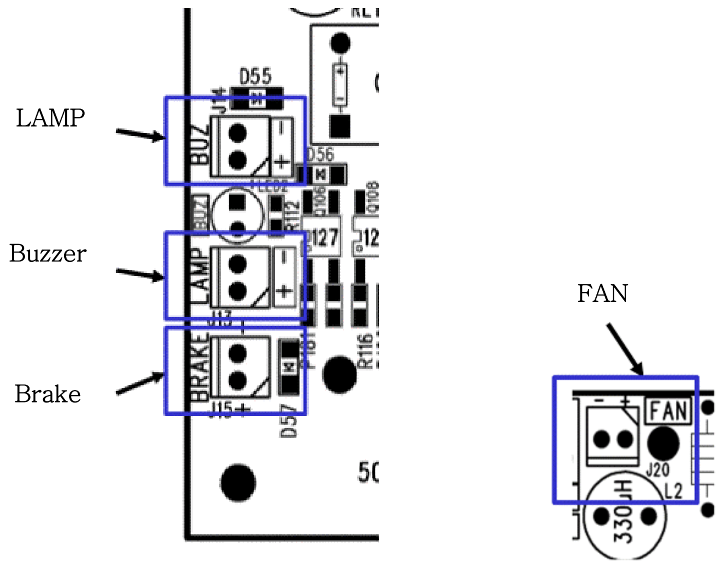
- Connector Number

Pin No.	J3	J6	J8	J2	J5	J7
01	X000	X010	X020	Y000	Y010	Y020
02	X001	X011	X021	Y001	Y011	Y021
03	X002	X012	X022	Y002	Y012	Y022
04	X003	X013	X023	Y003	Y013	Y023
05	X004	X014	X024	Y004	Y014	Y024
06	X005	X015	미사용	Y005	Y015	Y025
07	X006	X016	GND	Y006	Y016	Y026
08	X007	X017	GND	Y007	Y017	Y027
09	X008	X018	P24V	Y008	Y018	Y028
10	X009	X019	P24V	Y009	Y019	Y029

- Connector Pin No.



H.6 Aux. Connection and Fan Connector

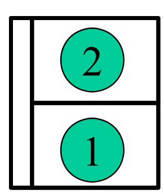


Brake (J15, Molex 2P)

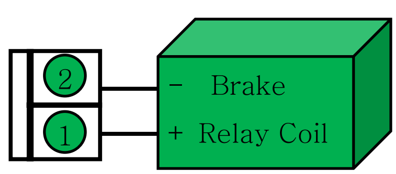
- Signal of Connector and Pin

PinNo.	BRAKE Signal
	Connector J15
1	+24V
2	BRAKE

- Connector Pin Number



- Relay required for BRAKE Control

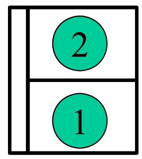


LAMP(Alarm Light) Installation (J14, Molex 2P)

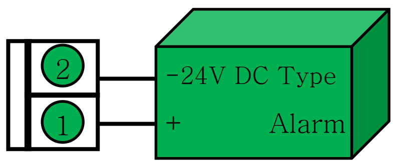
- Signal of Pin and Connection

Pin No.	LAMP Signal
	Connector J14
1	+24V
2	LAMP

- Connector Pin No.



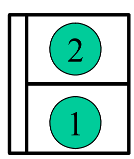
- Direct Connection with Alarm Light



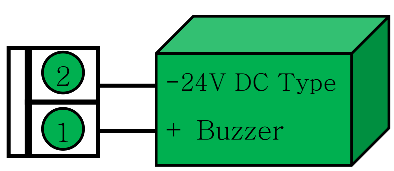
BUZZER Installation (J13, Molex 2P)

Pin N	BUZZER Signal
	Connector J13
1	+24V
2	BUZZER

- Connector Pin No.



- Direct connection BUZZER (DC 24V)



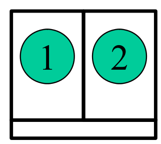
FAN Installation (J20, Molex 2P)

- When TP (Touch Panel) is on , Fan is always ON.

- Connector No and Pin No

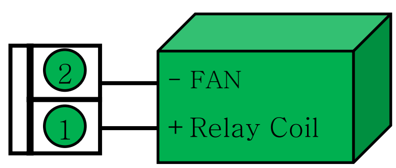
Pin No	FAN Name
	Connector J20
41	+24V
2	FAN

- Connector Pin No.



- If FAN is for DC Voltage, connect directly , if FAN IS FOR AC Voltage connect

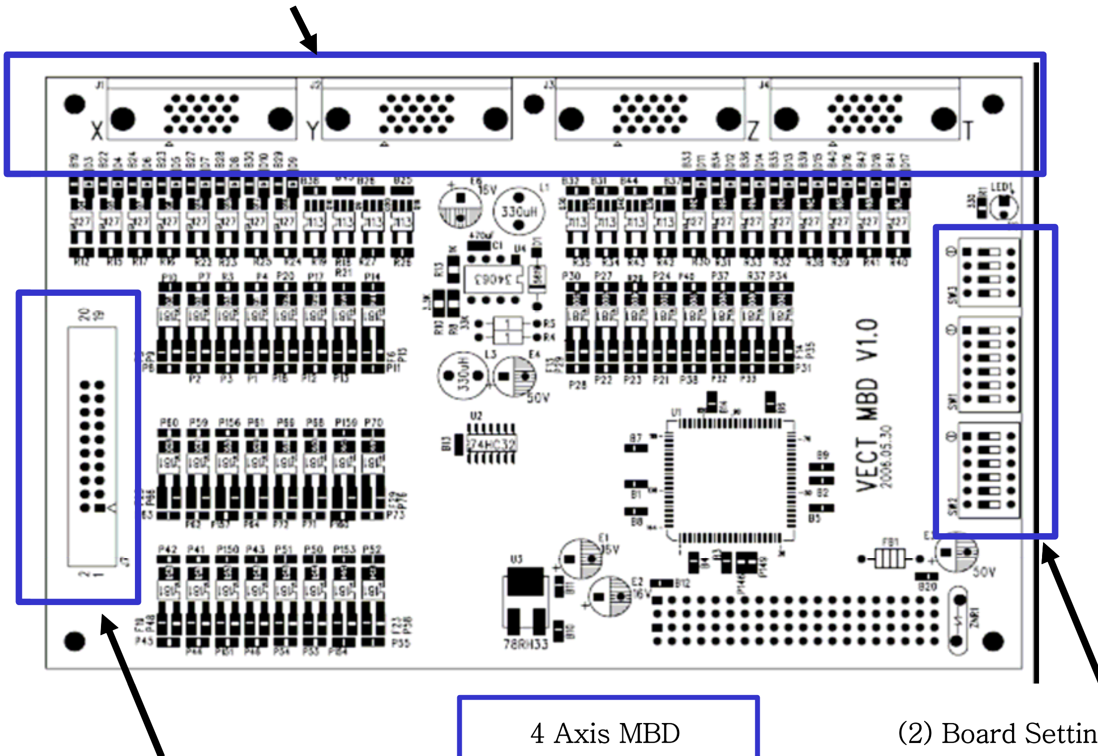
through external relay.



I. Motor Control Board : MBD-4X

I.1 Connector Layout

(1) Motor Connection (3M-20P) Connector)



4 Axis MBD

(2) Board Setting Dip Switch

(3) Expansion of connector

I.2 Motor Driver Interface

■ MBD Robot Axis Structure

Board	No.1 MBD-4X				No.2 MBD-4X			
Model Name	1XAxis	1YAxis	1ZAxis	1Taxis	2XAxis	2YAxis	2ZAxis	2Taxis
NEXIA-3X (Single)	Travers	Kick	Main Down		No.2 MBD is not in use			
NEXIA-5X (Single)	Travers	Kick	Main Down			Rotation	Swivel	

■ MBD-4X, 1X Connector Signal

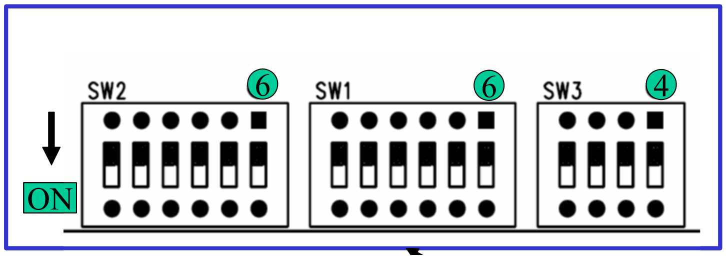
Connector : 3M 20P Connector (5*4 Colum)

Signal (Yaskawa Motor Sigma-III)

Pin	Signal	Direction	Sigma-III No.	Yaskawa Driver Signal name
01	PLS/CW-	OUT	08	/PULS
02	PLS/CW+	OUT	07	PULS
03	DIR/CCW-	OUT	12	/SIGN
04	DIR/CCW+	OUT	11	SIGN
05	PULSE_CLR-	OUT	14	/CLR
06	PULSE_CLR+	OUT	15	CLR
07	/S_ON	OUT	40	/S-ON
08	/P_CON	OUT	41	/P-CON
09	/ALM_RESET	OUT	44	/ALM-RST
10	P24V_OUT	OUT	47	+24VIN
11	/INPOS_COM	OUT	26	COIN-
12	/INPOS	IN	25	COIN+
13	/S_RDY_COM	OUT	30	/S-RDY-
14	/S_RDY	IN	29	/S-RDY+
15	CW_STOP	OUT	42	P-OT
16	CCW_STOP	OUT	43	N-OT
17	/ALM_COM	OUT	32	/ALM-
18	/ALM	IN	31	/ALM+
19	/SG	IN	01	SG
20	/EZ	IN	19	PCO
Frame	FG	-	Main Frame	FG

I.3 Setting for Motor Board

- Dip switch for Model Selection



- Dip switch Setting

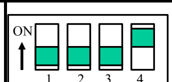
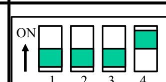
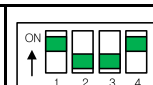
SW3 : Select On for not in use (ALARM signal Ignore)

When there is two board : The board next to BASE board is No.1

No.1 Board : All SW1 is ON, All SW2 is OFF (Board selection function)

No. 2Board : All SW1 is Off, All SW2 is ON (Board selection function)

It will cause serious machine malfucntion problem if setting is not right.

Board	Axis								No. 1 MBD-4X			No. 2 MBD-4X		
Model	1X	1Y	1Z	1T	2X	2Y	2Z	2T	SW1	SW2	SW3	SW1	SW2	SW3
NEXIA-3X	⊙	⊙	⊙						All is ON	All is Off		No User No.2 Board		
NEXIA-5X	⊙	⊙	⊙			⊙	⊙		All is ON	All is Off		All is OFF	All is ON	

J. Middle Connection Board : IF

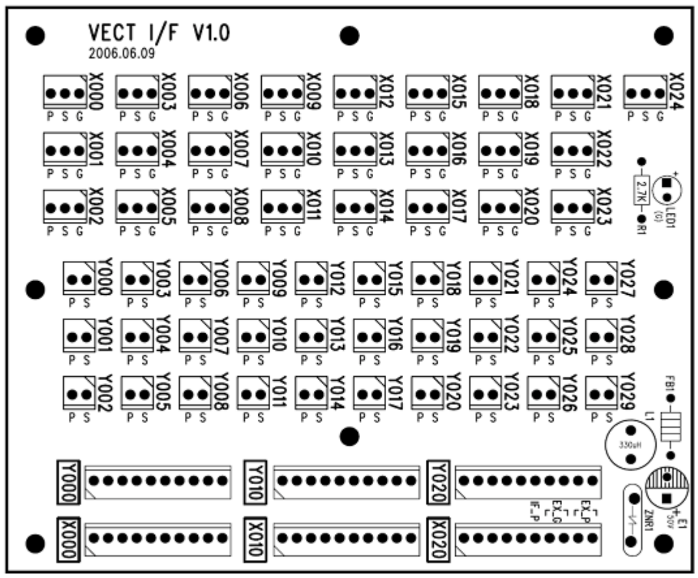
J.1 Middle Board Description and Connector

- Connect BASE board to Middle board X000, Y000, X010, Y010, X020, Y020 , 1:1

  Connection

- 2P, 3P Molex Connector P is 24V, S is I/O signal, G is GND(Ground)

- Signal for output is 2P Connector, Input is 3P connector

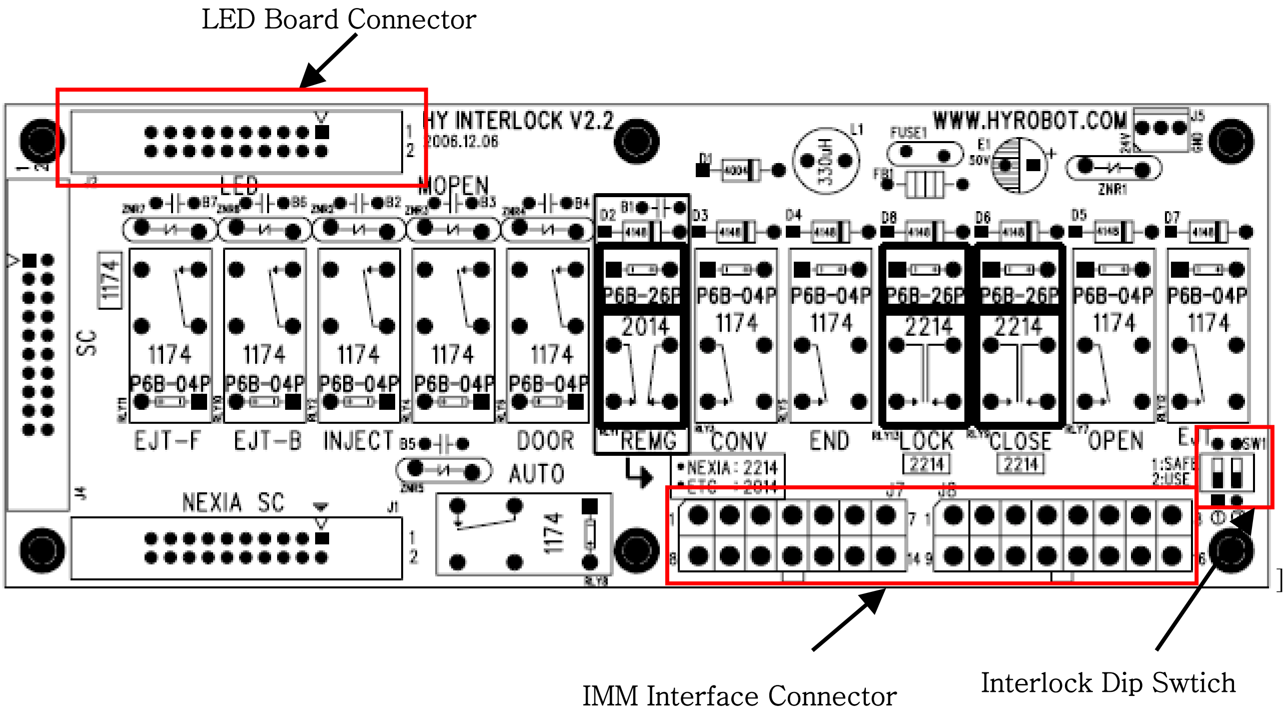


J.2 Connector Name (Same as BASE board)

Pin	J3	J6	J8	J2	J5	J7
01	X000	X010	X020	Y000	Y010	Y020
02	X001	X011	X021	Y001	Y011	Y021
03	X002	X012	X022	Y002	Y012	Y022
04	X003	X013	X023	Y003	Y013	Y023
05	X004	X014	X024	Y004	Y014	Y024
06	X005	X015	Not in Use	Y005	Y015	Y025
07	X006	X016	GND	Y006	Y016	Y026
08	X007	X017	GND	Y007	Y017	Y027
09	X008	X018	P24V	Y008	Y018	Y028
10	X009	X019	P24V	Y009	Y019	Y029

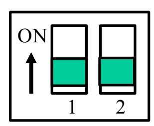
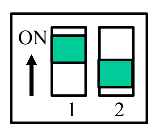
K. Interlock Board : IL

K.1 Interlock Board Description and Connector

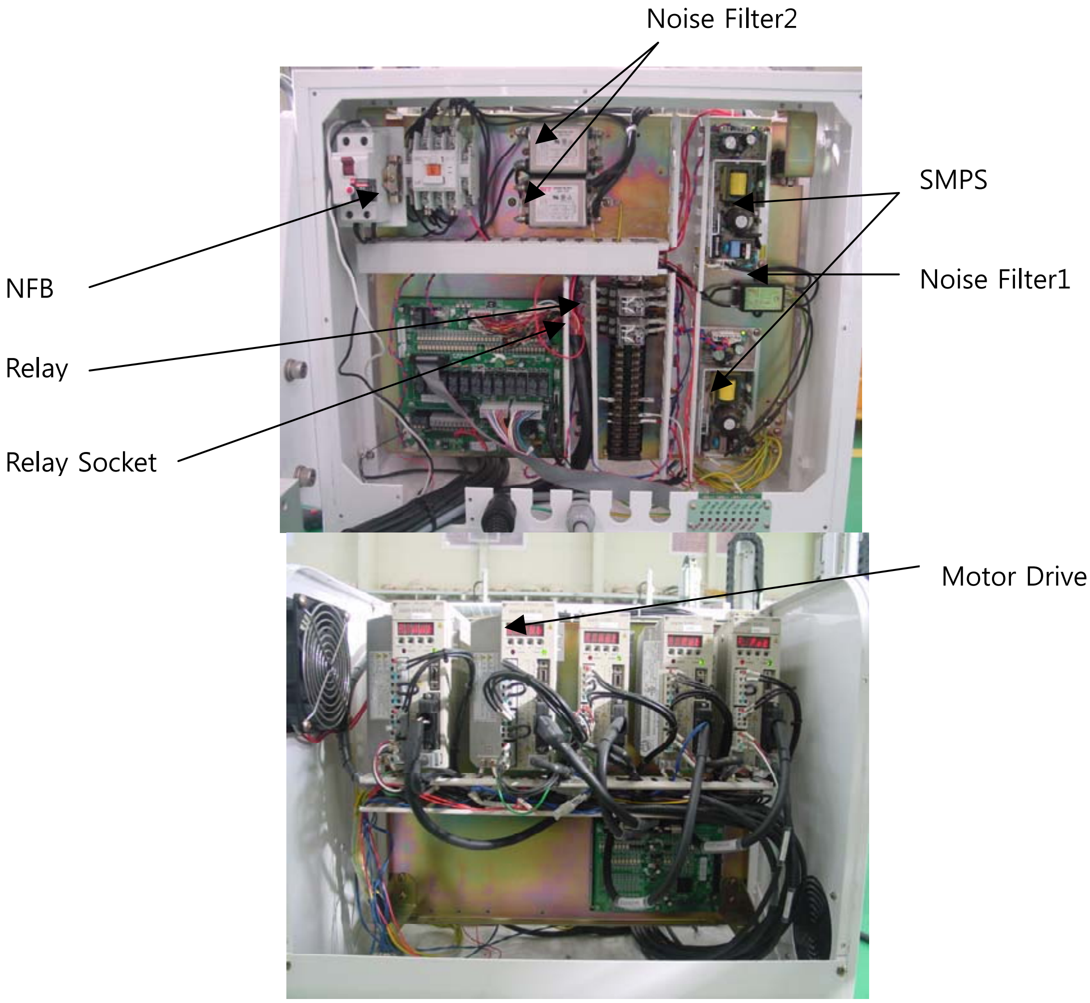


K.2 Interface Setting dip Switch

- For No.1 Switch is for E-Stop from IMM Connection, Off is for IMM E-stop Connect, ON for no connection of IMM E-Stop.

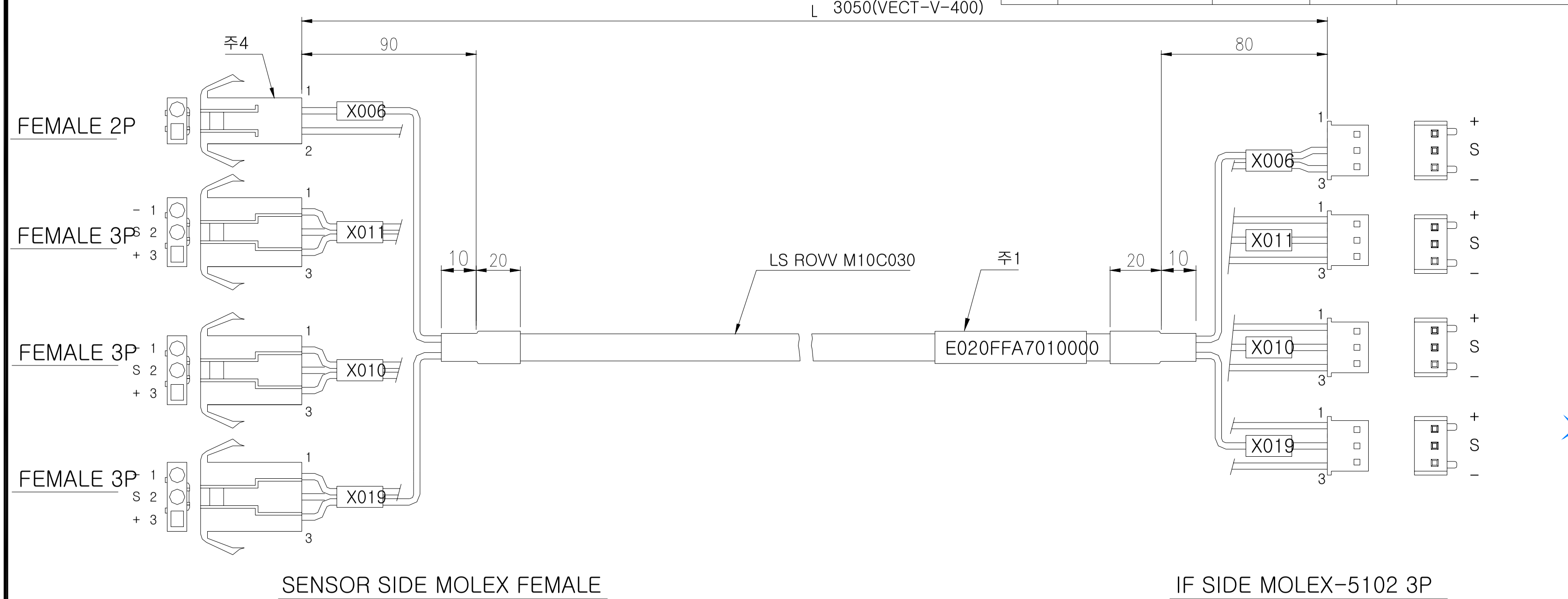
	SW1Setting
Use - No1 is OFF (IMM E-Stop connection required) If no connection, alarm will trigger	
Not in Use - No 1 is ON (IMM E-Stop connection is not required)	

NEXIA-SY Electric Part List



NFB	ABS33B-30A	LS cable
Noise Filter1	WYF-S06A2 6A	WOONYOUNG Co., LTD
Noise Filter2	FTN-E20H-CM-20A	FINE SUNTRONIX CO., LTD.
SMPS	HNPS756-24-N 3.1A	HYROBOTICS CO., LTD.
Relay	SZR-LY2-N1 24VDC	Honeywell
Relay Socket	KLY2	Korea Automatic Control Co., Inc
Motor Drive	SGDH-□□A	YASKAWA ELECTRIC CORPORATION

NO.	REVISIONS	DATE	APPROVE	REMARK



IF SIDE

NUMBER TUBE: X019		NUMBER TUBE: X010		NUMBER TUBE: X011		NUMBER TUBE: X006	
PIN	COLOR	PIN	COLOR	PIN	COLOR	PIN	COLOR
1	RED	1	RED+WHITE	1	BROWN	1	-
2	WHITE	2	WHITE+BLACK	2	GRAY	2	YELLOW+BLACK
3	GREEN	3	GREEN+BLACK	3	ORANGE	3	BULE+WHITE

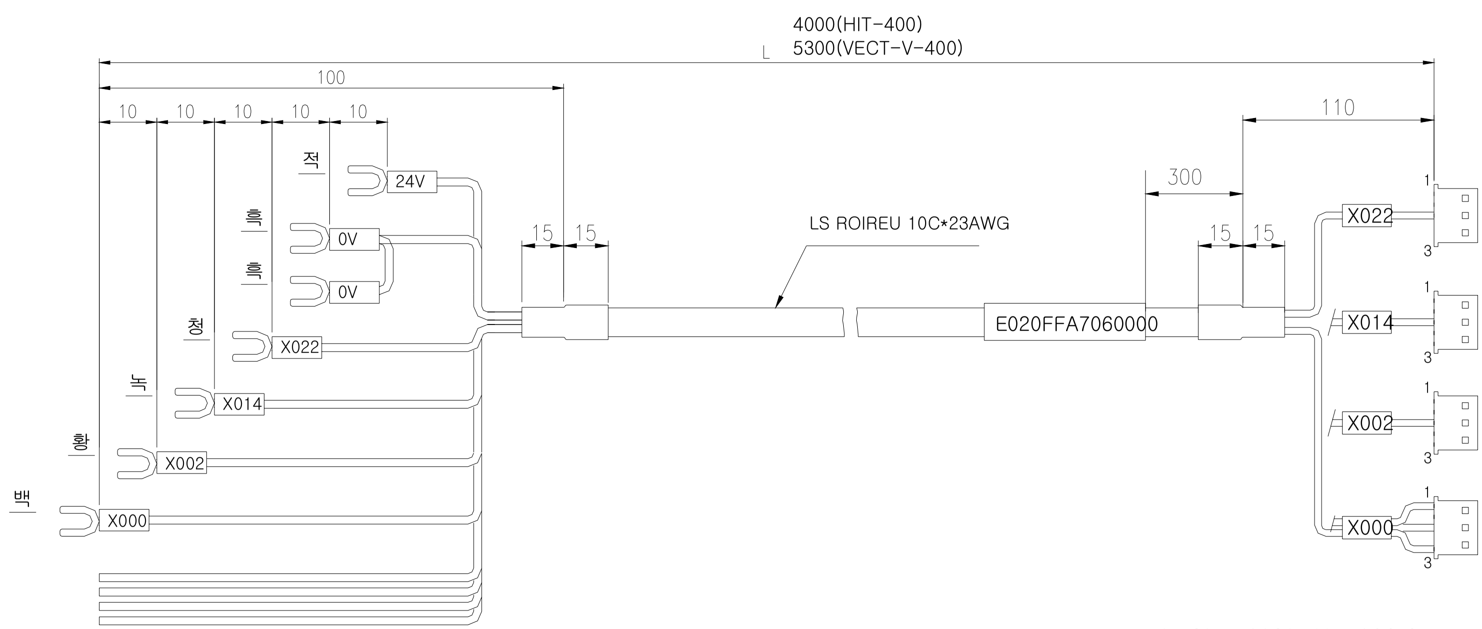
SONSOR SIDE

NUMBER TUBE: X019		NUMBER TUBE: X010		NUMBER TUBE: X011		NUMBER TUBE: X006	
PIN	COLOR	PIN	COLOR	PIN	COLOR	PIN	COLOR
1	GREEN	1	RGEEN+BLACK	1	ORANGE	1	BLUE+WHITE
2	WHITE	2	WHITE+BLACK	2	GRAY	2	YELLOW+BLACK
3	RED	3	RED+WHITE	3	BROWN		

ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
	SENSOR INTERFACE CABLE				

A3 Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	VECT-SA
Unit M/M					Draw No.	Part no. E020FFA7010000
Date: '06.09.11						

NO.	REVISIONS	DATE	APPROVE	REMARK

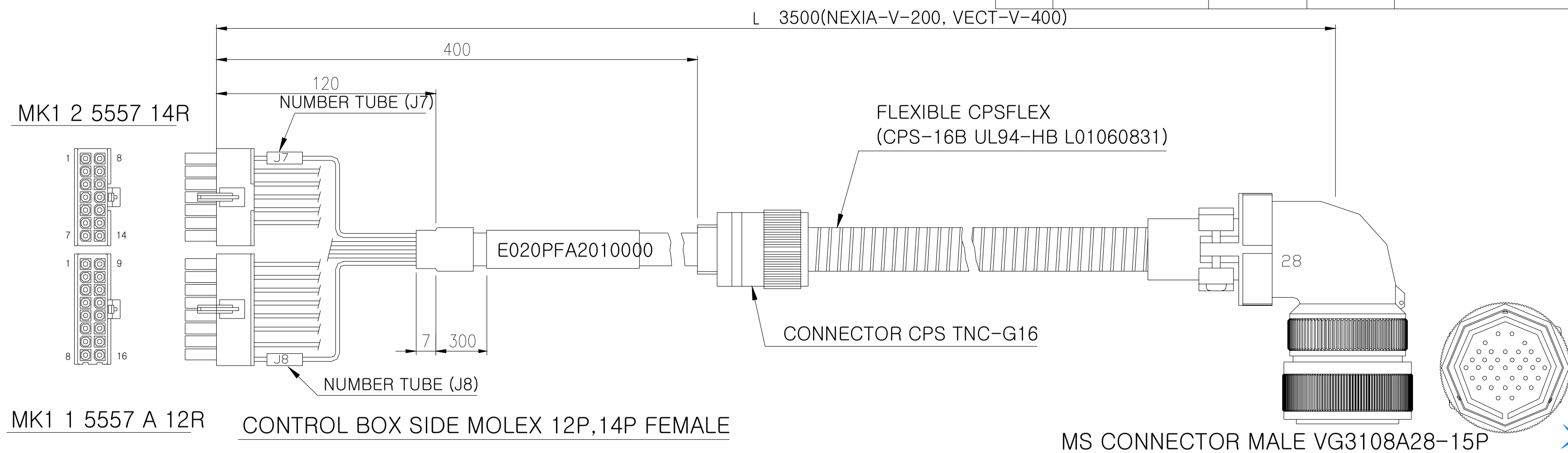


7P TERMINAL

IF SIDE MOLEX-5102 3P

IF SIDE							
NUMBER TUBE: X000		NUMBER TUBE: X002		NUMBER TUBE: X014		NUMBER TUBE: X022	
PIN	COLOR	PIN	COLOR	PIN	COLOR	PIN	COLOR
1	RED	1	-	1	-	1	-
2	WHITE	2	YELLOW	2	GREEN	2	BLUE
3	BLACK	3	-	3	-	3	-

			SENSOR INTERFACE CABLE				
		ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
A3	Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	VECT-V-200
Unit M/M						Draw No.	Part no. E020FFA7060000
Date: '06.09.11							



CONTROL BOX SIDE MOLEX 12P,14P FEMALE

MS CONNECTOR MALE VG3108A28-15P

CONTROL BOX SIDE			
PIN NO.	COLOR	PIN NO.	COLOR
14-1	PINK+BLACK	16-1	WHITE+YELLOW
14-2	WHITE+BLACK	16-2	WHITE
14-3	SKY	16-3	VIOLET
14-4	WHITE+GRAY	16-4	BLACK
14-5	ORANGE+BLACK	16-5	BROWN
14-6	RED+BLACK	16-6	GREEN
14-7	VIOLET+WHITE	16-7	BLUE
14-8	GRAY+BLACK	16-8	BLACK+BLUE
14-9	PINK	16-9	WHITE+RED
14-10	YELLOW+BLACK	16-10	BLACK+YELLOW
14-11	BLACK+RED	16-11	RED
14-12	YELLOW	16-12	BLACK+WHITE
14-13	GRAY	16-13	GRAY+WHITE
14-14	ORANGE	16-14	GREEN+WHITE
		16-15	BLUE+WHITE

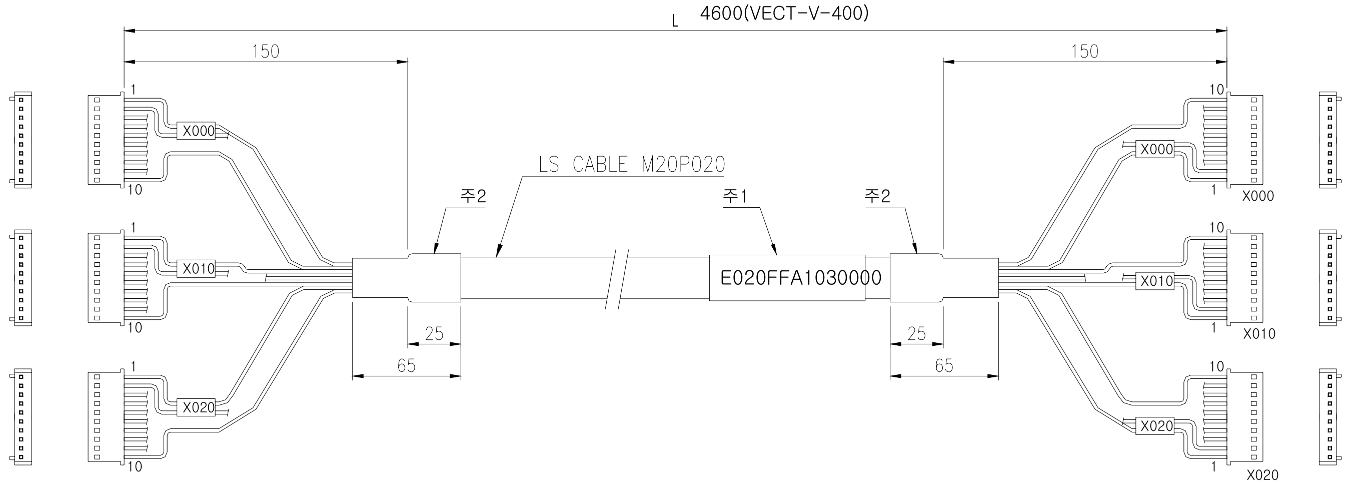
MS CONNECTOR			
PIN NO.	COLOR	PIN NO.	COLOR
A	BLACK+BLUE	S	RED
B	BLUE	T	ORANGE
C	GREEN	U	GRAY
D	BROWN	V	YELLOW
E	BLACK	W	BLACK+RED
F	VIOLET	X	YELLOW+BLACK
G	VIOLET+WHITE	Y	PINK
H	ORANGE+BLACK	Z	PINK+BLACK
J	RED+BLACK	a	WHITE+YELLOW
K	SKY+BLACK	b	WHITE
L	SKY	d	WHITE+RED
M	BLUE+WHITE	e	WHITE+BLACK
N	GREEN+WHITE	f	BLACK+YELLOW
P	BROWN+WHITE	g	WHITE+GRAY
R	BLACK+WHITE		

NO.	REVISIONS	DATE	APPROVE	REMARK

ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
	INTERLOCK CABLE 1				

A3	Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	NEXIA-V-200
Unit M/M						Draw No.	Part no. E020PFA2010000
Date: '06.09.11							

NO.	REVISIONS	DATE	APPROVE	REMARK



IF SIDE MOLEX-5102 10P

IF SIDE					
NUMBER TUBE: X000		NUMBER TUBE: X010		NUMBER TUBE: X020	
PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR
1	ORANGE(WHITE)	1	YELLOW(BLACK)	1	VIOLET(BLACK)
2	WHITE(ORANGE)	2	BLACK(YELLOW)	2	BLACK(VIOLET)
3	GRAY(WHITE)	3	BLACK(WHITE)	3	ORANGE(BLACK)
4	WHITE(GRAY)	4	WHITE(BLACK)	4	BLACK(ORANGE)
5	BLUE(WHITE)	5	RED(WHITE)	5	GRAY(BLACK)
6	WHITE(BLUE)	6	WHITE(RED)	6	BLACK(GRAY)
7	GREEN(WHITE)	7	BRWON(WHITE)	7	BLUE(BLACK)
8	WHITE(GREEN)	8	WHITE(BROWN)	8	BLACK(BLUE)
9	YELLOW(WHITE)	9	VIOLET(WHITE)	9	GREEN(BLACK)
10	WHITE(YELLOW)	10	WHITE(VIOLET)	10	BLACK(GREEN)

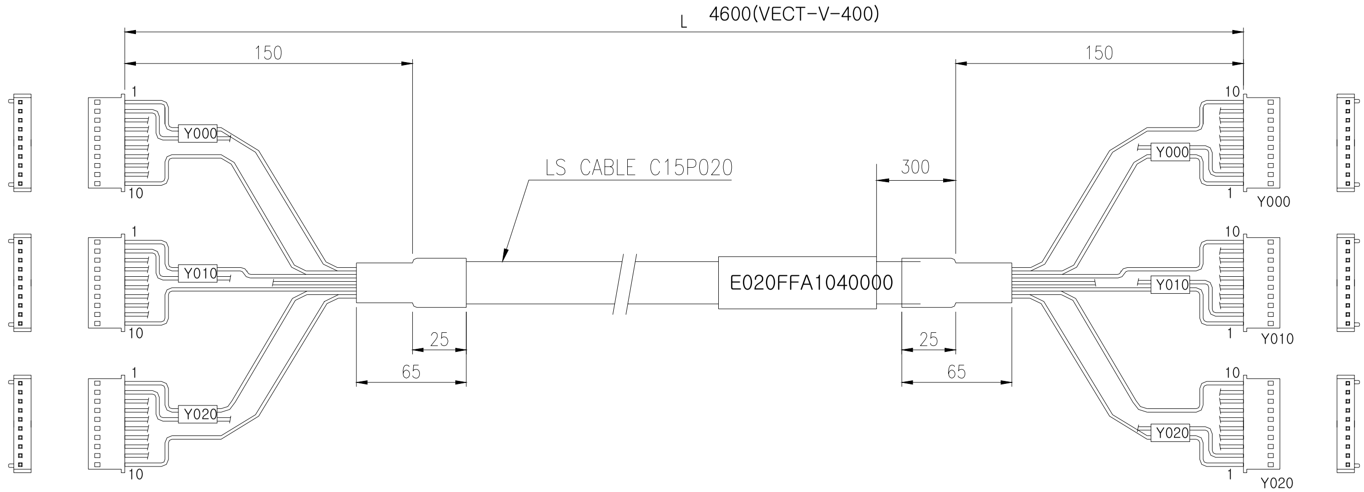
SC SIDE MOLEX-5102 10P

SC SIDE					
NUMBER TUBE: X000		NUMBER TUBE: X010		NUMBER TUBE: X020	
PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR
1	ORANGE(WHITE)	1	YELLOW(BLACK)	1	VIOLET(BLACK)
2	WHITE(ORANGE)	2	BLACK(YELLOW)	2	BLACK(VIOLET)
3	GRAY(WHITE)	3	BLACK(WHITE)	3	ORANGE(BLACK)
4	WHITE(GRAY)	4	WHITE(BLACK)	4	BLACK(ORANGE)
5	BLUE(WHITE)	5	RED(WHITE)	5	GRAY(BLACK)
6	WHITE(BLUE)	6	WHITE(RED)	6	BLACK(GRAY)
7	GREEN(WHITE)	7	BRWON(WHITE)	7	BLUE(BLACK)
8	WHITE(GREEN)	8	WHITE(BROWN)	8	BLACK(BLUE)
9	YELLOW(WHITE)	9	VIOLET(WHITE)	9	GREEN(BLACK)
10	WHITE(YELLOW)	10	WHITE(VIOLET)	10	BLACK(GREEN)

ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
	I/O CABLE				

A3	Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	VECT-V-200
Unit M/M	Date: '06.09.11					Draw No.	Part no. E020FFA1030000

NO.	REVISIONS	DATE	APPROVE	REMARK



IF SIDE MOLEX-5102 10P

IF SIDE					
NUMBER TUBE: X000		NUMBER TUBE: X010		NUMBER TUBE: X020	
PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR
1	BRWON(WHITE)	1	BRWON(BLACK)	1	BROWN(RED)
2	WHITE(BROWN)	2	BLACK(BROWN)	2	RED(BRWON)
3	ORANGE(WHITE)	3	ORANGE(BLACK)	3	ORANGE(RED)
4	WHITE(ORANGE)	4	BLACK(ORANGE)	4	RED(ORANGE)
5	GRAY(WHITE)	5	GRAY(BLACK)	5	GRAY(RED)
6	WHITE(GRAY)	6	BLACK(GRAY)	6	RED(GRAY)
7	GREEN(WHITE)	7	GREEN(BLACK)	7	GREEN(RED)
8	WHITE(GREEN)	8	BLACK(GREEN)	8	RED(GREEN)
9	YELLOW(WHITE)	9	YELLOW(BLACK)	9	YELLOW(RED)
10	WHITE(YELLOW)	10	BLACK(YELLOW)	10	RED(YELLOW)

SC SIDE MOLEX-5102 10P

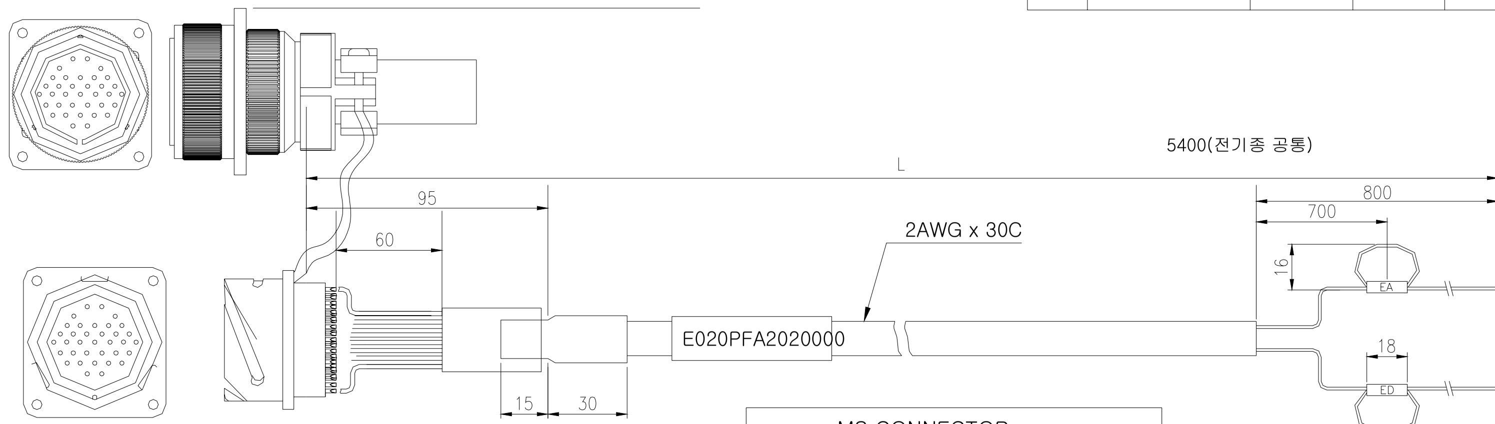
SC SIDE					
NUMBER TUBE: X000		NUMBER TUBE: X010		NUMBER TUBE: X020	
PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR
1	BRWON(WHITE)	1	BRWON(BLACK)	1	BROWN(RED)
2	WHITE(BROWN)	2	BLACK(BROWN)	2	RED(BRWON)
3	ORANGE(WHITE)	3	ORANGE(BLACK)	3	ORANGE(RED)
4	WHITE(ORANGE)	4	BLACK(ORANGE)	4	RED(ORANGE)
5	GRAY(WHITE)	5	GRAY(BLACK)	5	GRAY(RED)
6	WHITE(GRAY)	6	BLACK(GRAY)	6	RED(GRAY)
7	GREEN(WHITE)	7	GREEN(BLACK)	7	GREEN(RED)
8	WHITE(GREEN)	8	BLACK(GREEN)	8	RED(GREEN)
9	YELLOW(WHITE)	9	YELLOW(BLACK)	9	YELLOW(RED)
10	WHITE(YELLOW)	10	BLACK(YELLOW)	10	RED(YELLOW)

ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
	I/O CABLE				

A3	Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	VECT-V-200
Unit M/M						Draw No.	Part no. E020FFA1040000
Date: '06.09.11							

NO.	REVISIONS	DATE	APPROVE	REMARK

MS CONNECTOR MALE VG3106A28-15P



MS CONNECTOR FEMALE VG3102A28-15S

MS CONNECTOR

PIN NO.	COLOR	PIN NO.	COLOR
A	BLACK+BLUE	S	RED
B	BLUE	T	ORANGE+YELLOW
C	GREEN	U	GRAY
D	BROWN	V	YELLOW
E	BLACK	W	BLACK+RED
F	VIOLET	X	YELLOW+BLACK
G	VIOLET+WHITE	Y	PINK
H	ORANGE+BLACK	Z	PINK+BLACK
J	RED+BLACK	a	WHITE+YELLOW
K	SKY+BLACK	b	WHITE
L	SKY	d	WHITE+RED
M	BLUE+WHITE	e	WHITE+BLACK
N	GREEN+WHITE	f	BLACK+YELLOW
P	BROWN+WHITE	g	WHITE+GRAY
R	BLACK+WHITE		

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MS CONNECTOR

PIN NO.	COLOR	CONNECT	PIN NO.	COLOR
B	BLUE		M	BLUE+WHITE
C	GREEN		N	GREEN+WHITE
D	BROWN		P	BROWN+WHITE
E	BLACK		R	BLACK+WHITE

IMM SIDE

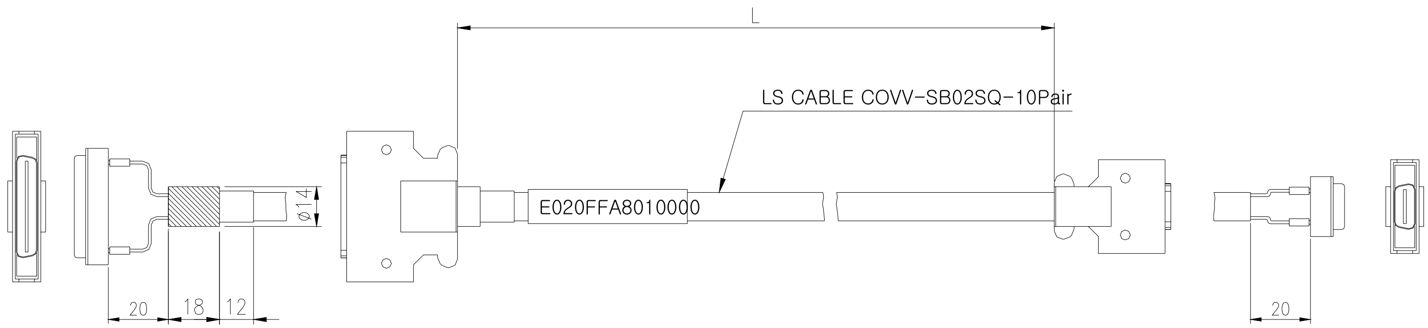
IMM

PIN NO.	COLOR	PIN NO.	COLOR
EA	RED+WHITE	D	ORANGE
M	BLUE	F	GRAY
K	GREEN	E	YELLOW
I	BROWN	R	BLACK+RED
G	BLACK	S	YELLOW+BLACK
OV	VIOLET	Q	PINK
EB	RED+BLUE	ED	BINK+BLACK
CY	YELLOW+RED	C1	WHITE+YELLOW
CV	RED+YELLOW	C	WHITE
RU	RED+GREEN	C2	WHITE+RED
EC	WHITE+RED	C3	WHITE+BLACK
N	WHITE	C4	WHITE+GRAY
L	SKY	C5	BLACK+YELLOW
J	WHITE		
H	SKY		

ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
	INTERLOCK CABLE 2				

A3	Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	NEXIA-V-200
Unit M/M Date: '06.09.11						Draw No.	Part no. E020PFA2020000

NO.	REVISIONS	DATE	APPROVE	REMARK



MOTOR DRIVE SIDE 3M-10350 Connector MALE 50P

MOTOR DRIVE SIDE									
PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR	PIN NO.	COLOR
1	BLACK(BROWN)	11	GREEN(WHITE)	21	.	31	.	41	GRAY(WHITE)
2	.	12	WHITE(GREEN)	22	.	32	.	42	BLACK(ORANGE)
3	.	13	.	23	.	33	.	43	ORANGE(BLACK)
4	.	14	WHITE(ORANGE)	24	.	34	.	44	WHITE(BROWN)
5	.	15	ORANGE(WHITE)	25	YELLOW(BLACK)	35	.	45	.
6	.	16	.	26	BLACK(YELLOW)	36	.	46	.
7	YELLOW(WHITE)	17	.	27	.	37	.	47	BROWN(WHITE)
8	WHITE(YELLOW)	18	.	28	.	38	.	48	.
9	.	19	BROWN(BLACK)	29	GREEN(BLACK)	39	.	49	.
10	.	20	.	30	BLACK(GREEN)	40	WHITE(GRAY)	50	.

SC SIDE 3M-10320 Connector MALE 20P

SC SIDE			
PIN NO.	COLOR	PIN NO.	COLOR
1	WHITE(YELLOW)	11	BLACK(YELLOW)
2	YELLOW(WHITE)	12	YELLOW(BLACK)
3	WHITE(GREEN)	13	BLACK(GREEN)
4	GREEN(WHITE)	14	GREEN(BLACK)
5	WHITE(ORANGE)	15	BLACK(ORANGE)
6	ORANGE(WHITE)	16	ORANGE(BLACK)
7	WHITE(GRAY)	17	BLACK(GRAY)
8	GRAY(WHITE)	18	GRAY(BLACK)
9	WHITE(GRAY)	19	BLACK(GRAY)
10	BROWN(WHITE)	20	BROWN(BLACK)

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ITEM	DESCRIPTION	MATERIAL	Q'TY	SIZE	REMARK
	CONTROL BOX CABLE				

A3	Scale: 1 / 1.5	Drawn	Design	Check	Approve	Project	VECT-V-200
	Unit M/M					Draw No.	Part no. E020FFA8010000
	Date: '06.09.11						

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