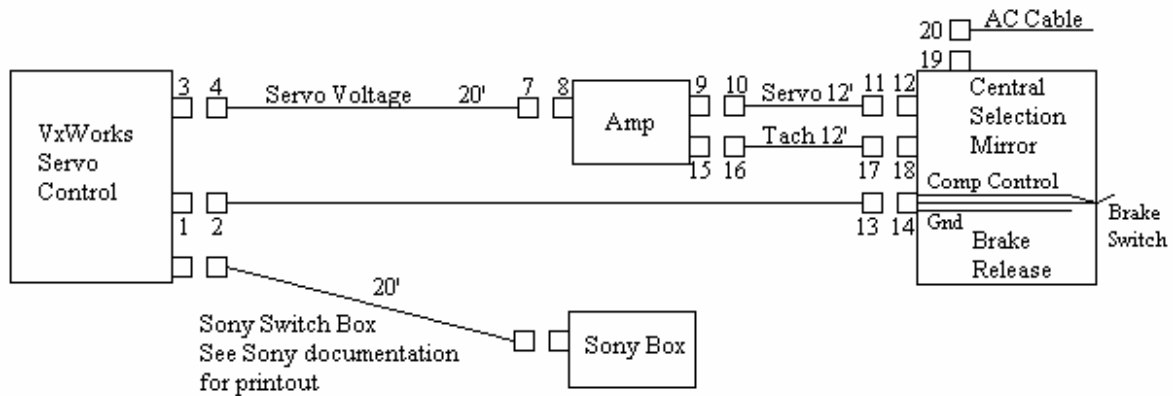


Central Selection Mirror Cable Diagram



Signal Name

Connector 1
PT02-16-26S

	<u>Pin #</u>	<u>Wire Color</u>	<u>Block Connection</u>
A	A	Black	4
A'	B	Brown	3
B	C	Red	6
B'	D	Orange	5
Z	E	Yellow	8
Z'	F	Green	7
+5V	G	Blue	1
GND	H	Violet	2
+5V Brake Release Supply	J	Red	+5 Volt Supply
Brake Release Supply GND	K	Black	GND
Spare	L	Grey	
Spare	M	White	
Spare	N	Grey	
Spare	P	White	
Motor Enable	R	Red	17 (Also to input of 7404. See Below)
Spare GND	S	Black	18

Connector 2
PT06-16-26P

A	A	White/Black
A'	B	White/Black/Yellow
B	C	Grey
B'	D	White/Black/Red
Z	E	Violet
Z'	F	White/Black/Brown
+5V	G	Red
GND	H	Green
+5V Brake Release Supply	J	Blue
Brake Release Supply GND	K	White/Grey
Spare	L	White
Spare	M	White/Black/Orange
Spare	N	White/Brown
Spare	P	White/Black/Green
Motor Enable	R	Orange
Spare GND	S	Yellow

Motor Enable drives a 7404 inverter on the terminal strip which is used to inhibit the amplifiers when the brakes are set. See connector 3. Pins 1 and 2 are used on the chip.

Signal Name		Connector Description	
Connector 3	<u>Pin #</u>	<u>Wire Color</u>	<u>Block Connection</u>
PT02-8-4S			
Servo Voltage	A	White	
Servo Voltage	B	Black	19
Shield – GND	C	Shield	20
Amplifier Inhibit	D	Blue	51 (Output from 7404 on terminal block)
Connector 4			
PT06-8-4P			
Servo Voltage	A	Red	
Servo Voltage	B	Black	
Shield – GND	C	Shield	
Amplifier Inhibit	D	White	
Connector 7			
PT06-8-4S			
Servo Voltage	A	Red	
Servo Voltage	B	Black	
Shield – GND	C	Shield	
Amplifier Inhibit	D	White	
Connector 8			
PT02-8-4P			
Shield – GND	A	White	
Servo Voltage	B	Black	
Servo Voltage	C	Shield	
Amplifier Inhibit	D	Blue – Pin 11 on both of the csmir Amplifier inputs (Inhibit inputs)	

Signal Name**Pin #****Wire Color**

Connector 9

PT02-20-16S

Amplified servo output 1
Amplified servo output 1 rtn
Spare
Shield
Amplified servo output 2
Amplified servo output 2 rtn
Spare
Spare
Amplified servo output 3
Amplified servo output 3 rtn
Spare
Spare
Amplified servo output 4
Amplified servo output 4 rtn

A Black
B White
C
D Green
E Black
F White
G Red
H Green
J Black
K White
L
M
N Black
P White
R Red
S Green

Connector 10

PT06-20-16P

Amplified servo output 1
Amplified servo output 1 rtn
Spare
Shield
Amplified servo output 2
Amplified servo output 2 rtn
Spare
Spare
Amplified servo output 3
Amplified servo output 3 rtn
Spare
Spare
Amplified servo output 4
Amplified servo output 4 rtn

A Black One
B White One
C Black Two
D Shield Green
E Black Three
F White Three
G Black Four
H White Four
J Black Five
K White Five
L Black Six
M White Six
N Black Seven
P White Seven
R Black Eight
S White Eight

Signal Name**Pin #****Wire Color**

Connector 11

PT06-20-16S

Amplified servo output 1	A	Black One
Amplified servo output 1 rtn	B	White One
Spare	C	Black Two
Shield	D	Shield Green
Amplified servo output 2	E	Black Three
Amplified servo output 2 rtn	F	White Three
Spare	G	Black Four
Spare	H	White Four
Amplified servo output 3	J	Black Five
Amplified servo output 3 rtn	K	White Five
Spare	L	Black Six
Spare	M	White Six
Amplified servo output 4	N	Black Seven
Amplified servo output 4 rtn	P	White Seven
	R	Black Eight
	S	White Eight

Connector 12

PT02-20-16P

Amplified servo output 1	A	Black
Amplified servo output 1 rtn	B	Brown
Spare	C	
Shield	D	Shield Green
Amplified servo output 2	E	Black
Amplified servo output 2 rtn	F	White
Spare	G	
Spare	H	
Amplified servo output 3	J	Black
Amplified servo output 3 rtn	K	White
Spare	L	Red
Spare	M	Green
Amplified servo output 4	N	Black
Amplified servo output 4 rtn	P	White
	R	Brown
	S	Brown

Signal Name**Pin #****Wire Color**

Connector 13

PT02-16-26P

A	A	White/Black
A'	B	White/Black/Yellow
B	C	Grey
B'	D	White/Black/Red
Z	E	Violet
Z'	F	White/Black/Brown
+5V	G	Red
GND	H	Green
+5V Brake Release Supply	J	Blue
Brake Release Supply GND	K	White/Grey
Spare	L	White
Spare	M	White/Black/Orange
Spare	N	White/Brown
Spare	P	White/Black/Green
Motor Enable	R	Orange
Spare GND	S	Yellow

Connector 14

PT02-20-16P

A	A	Brown	
A'	B	Green	
B	C	Grey	
B'	D	Pink	
Z	E	Red	
Z'	F	Black	
+5V	G	Brown/Green	
GND	H	White/Green	
+5V Brake Release Supply	J	Red	1K Ohm Resistor to +5V Brake Release Relay
Brake Release Supply GND	K	Black	
Spare	L	Red	
Spare	M	Black	
Spare	N	Green	
Spare	P	White	
Motor Enable	R	Black	Break release switch
Spare GND	S	Black	

Signal Name	<u>Pin #</u>	<u>Wire Color</u>
Connector 15		
PT02-16-10S		
Spare	A	
Spare	B	
Spare	C	
Tach Input to Amp 1 – Pin 7	D	Orange – Tach 1 +
Tach Input to Amp 1 – Pin 6	E	Yellow – Tach 1 -
Tach Input to Amp 2 – Pin 7	F	Green – Tach 2 +
Tach Input to Amp 2 – Pin 6	G	Blue – Tach 2 -
Spare	H	
Spare	J	
Spare	K	
Connector 16		
PT06-12-10P		
Spare	A	Black
Spare	B	Brown
Spare	C	Red
Tach Input to Amp 1	D	Orange
Tach Input to Amp 1	E	Yellow
Tach Input to Amp 2	F	Green
Tach Input to Amp 2	G	Blue
Spare	H	White
Spare	J	Shield
Spare	K	Unused
Connector 17		
PT06-12-10P		
Spare	A	Black
Spare	B	Brown
Spare	C	Red
Tach Output 1	D	Orange
Tach Output 1	E	Yellow
Tach Output 2	F	Green
Tach Output 2	G	Blue
Spare	H	White
Spare	J	Shield
Spare	K	Unused
Connector 18		
PT02-12-10S		
Spare	A	
Spare	B	
Spare	C	
Tach Output to Amp 1	D	Orange – motor Tach 1 -1
Tach Output to Amp 1	E	Yellow – motor Tach 1 -2
Tach Output to Amp 2	F	Green – motor Tach 2 -1
Tach Output to Amp 2	G	Blue – motor Tach 2 -2
Spare	H	
Spare	J	
Spare	K	

Signal Name	<u>Pin #</u>	<u>Wire Color</u>
Connector 19		
PT02-12-3P		
AC Hot	A	White
AC Neutral	B	Black
GND	C	Green
Connector 20		
PT06-12-3S		
AC Hot	A	White
AC Neutral	B	Black
GND	C	Green