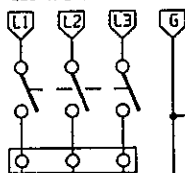


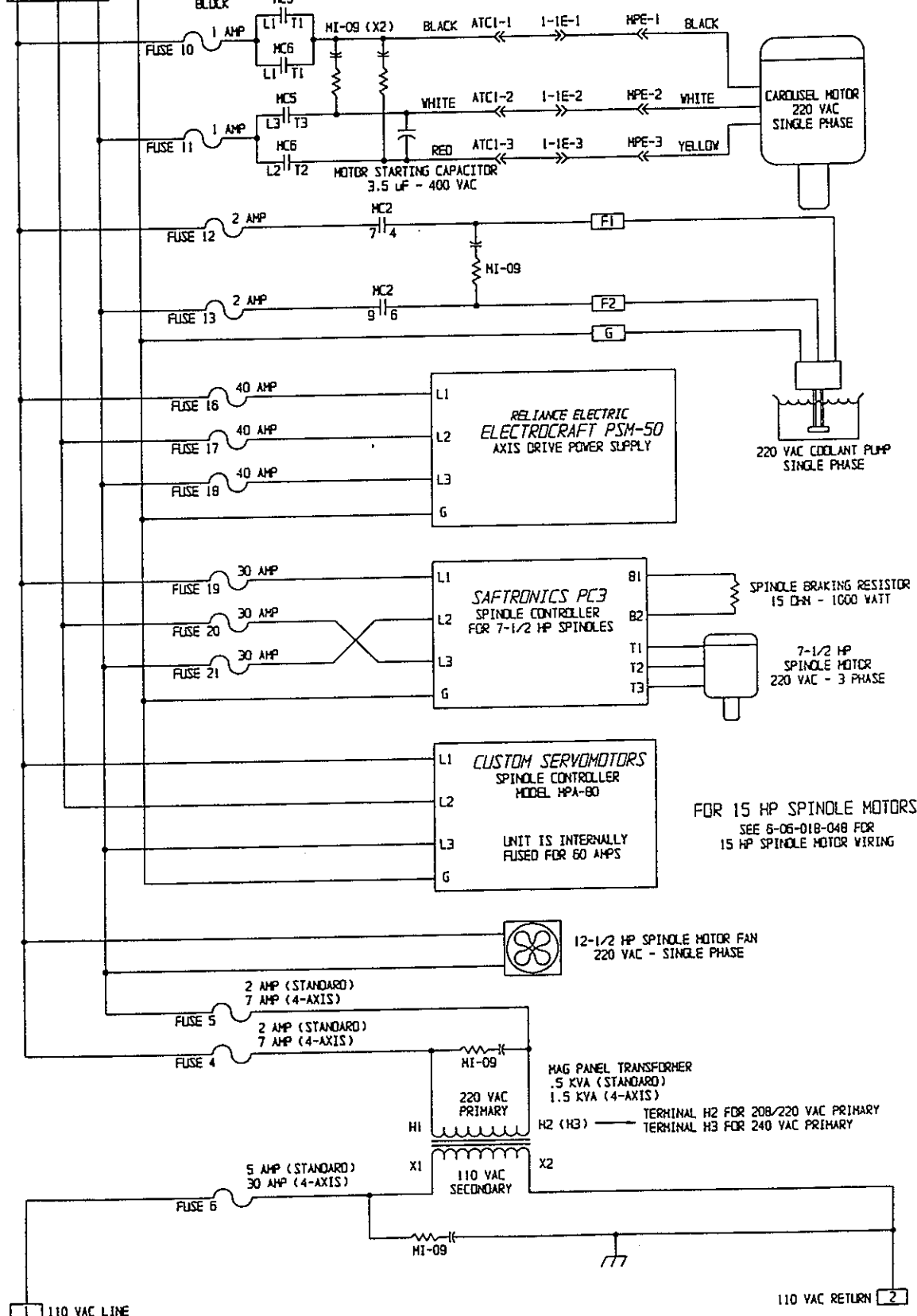
MAIN POWER
220 VAC 3 PHASE



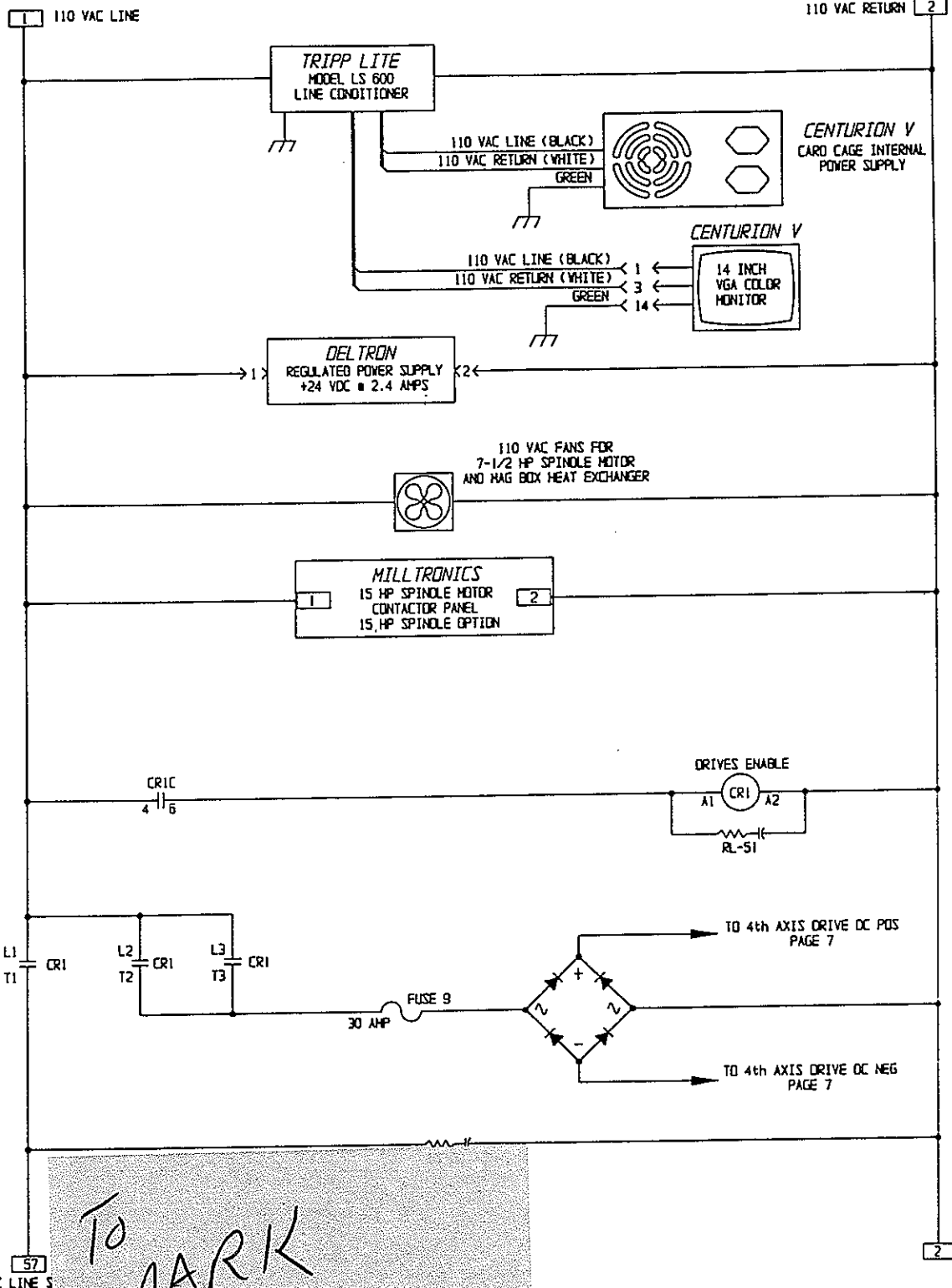
MACHINE DISCONNECT
SWITCH

3-LINE DISTRIBUTION
BLOCK

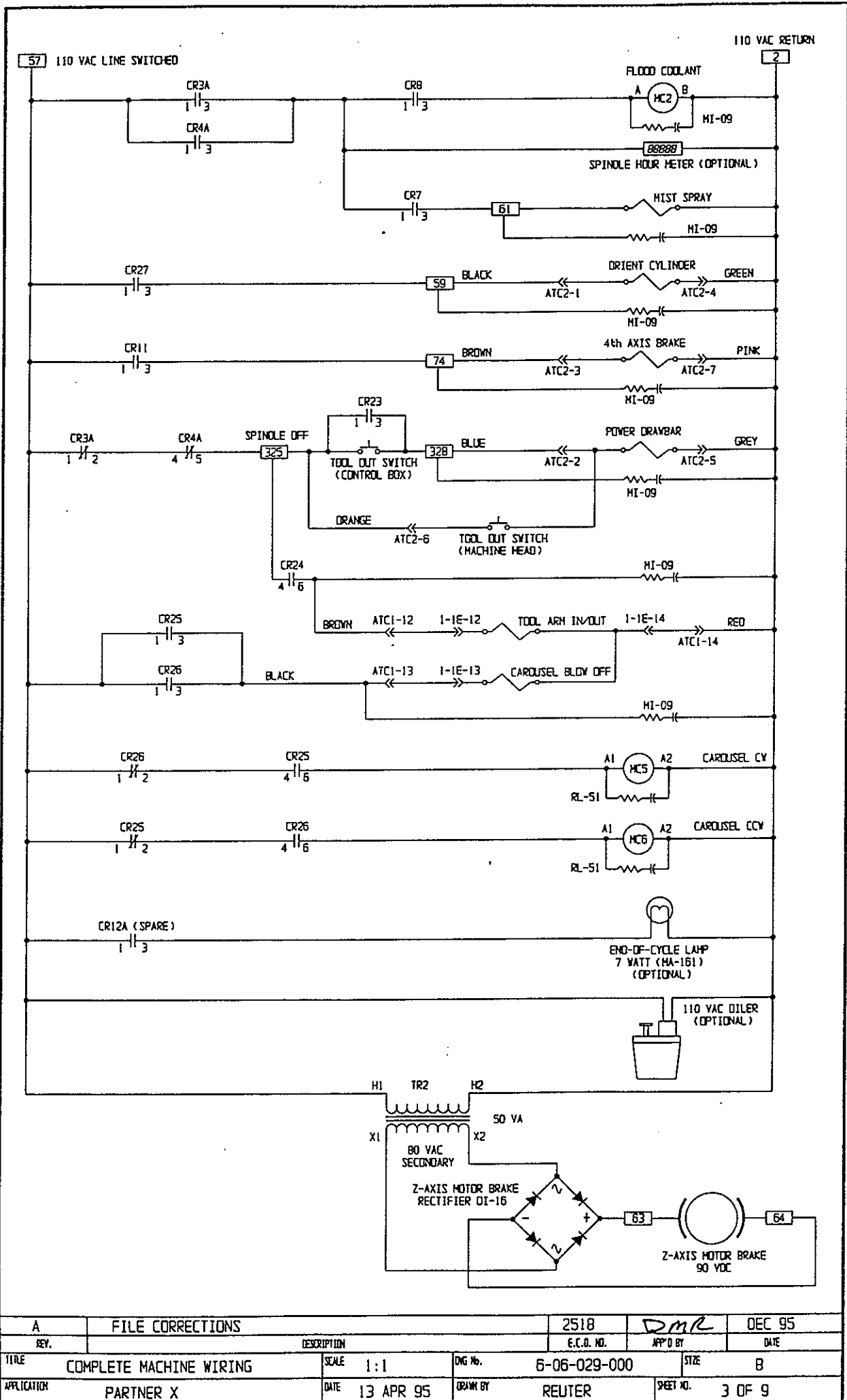
VX-186
GROUND LUG



A	FILE CORRECTIONS	2518	DMR	DEC 95
REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE	1:1	Dwg No. 6-06-029-000
APPLICATION	PARTNER X	DATE	13 APR 95	SIZE 8
		DRAWN BY	REUTER	SHEET NO. 1 OF 9

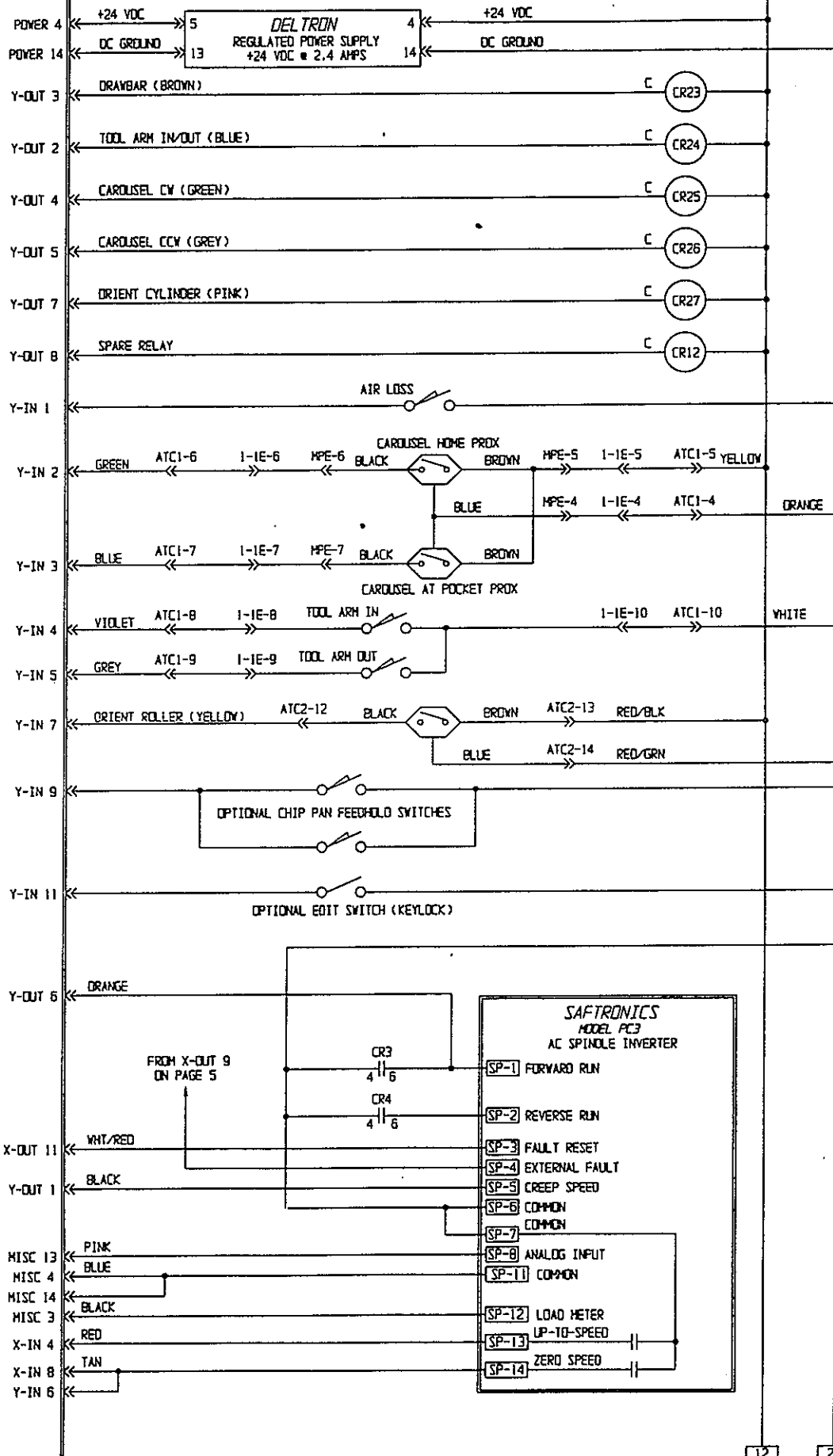


A		2518	Dmr	DEC 95
REV.		E.C.O. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE	1:1	Dwg No. 6-06-029-000
APPLICATION	PARTNER X	DATE	13 APR 95	DRAWN BY REUTER
			SHEET NO.	2 OF 9



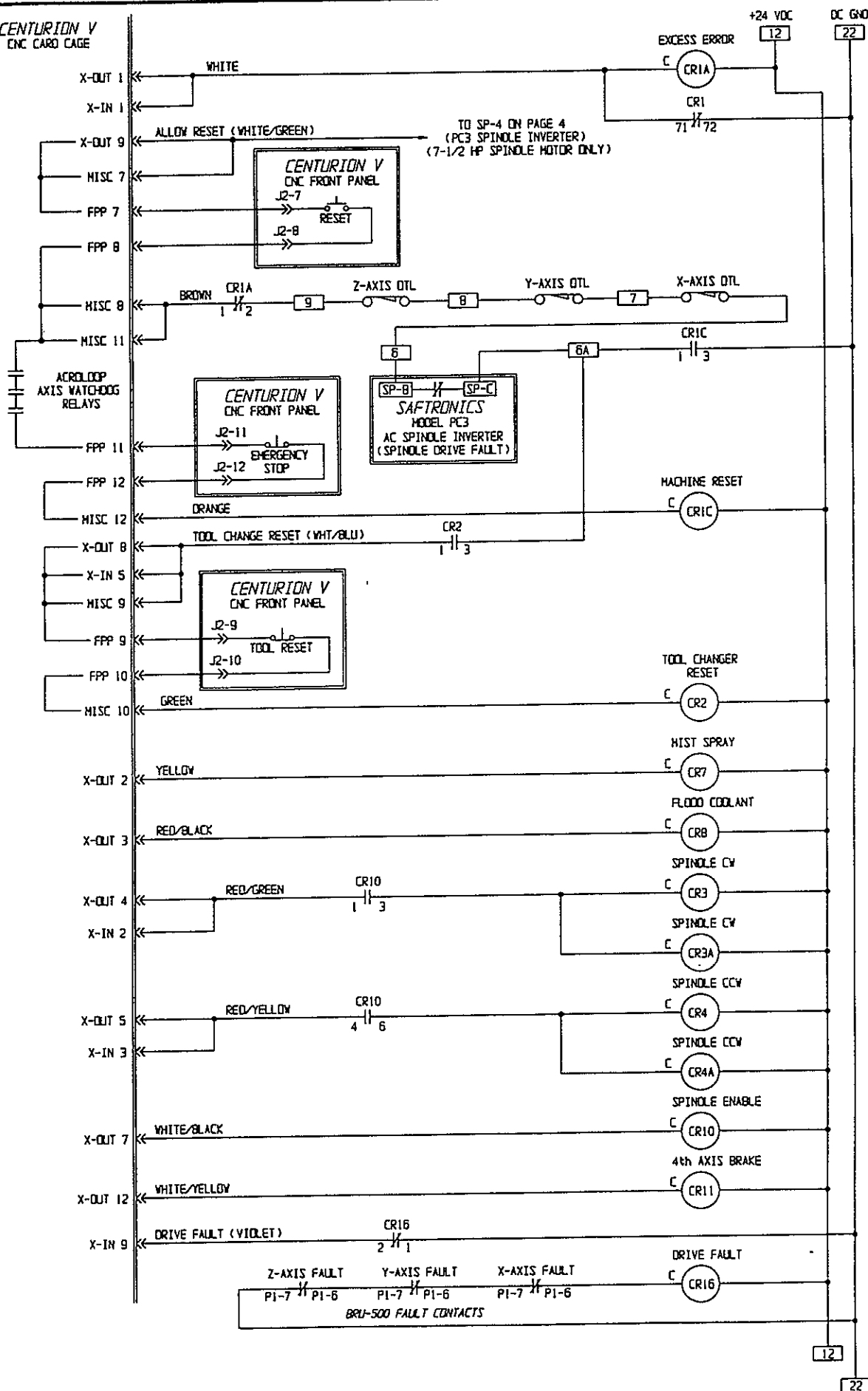
CENTURION V
CNC CARD CAGE

HAG PANEL +24 VDC 12
HAG PANEL DC GROUND 22

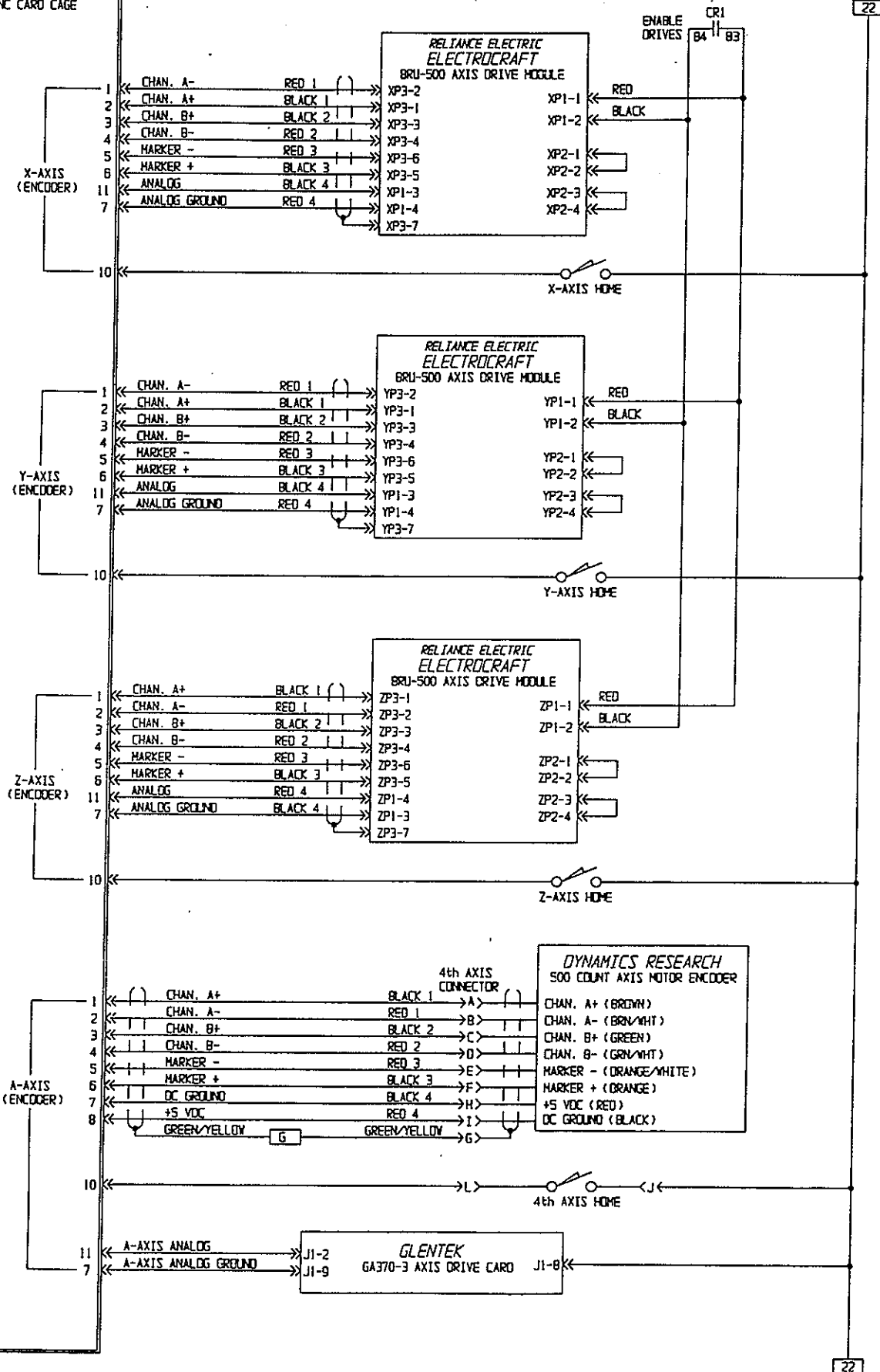


A	FILE CORRECTIONS	2518	DmC	DEC 95
REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE 1:1	DWG No. 6-06-029-000	SIZE B
APPLICATION	PARTNER X	DATE 13 APR 95	DRAWN BY REUTER	SHEET NO. 4 OF 9

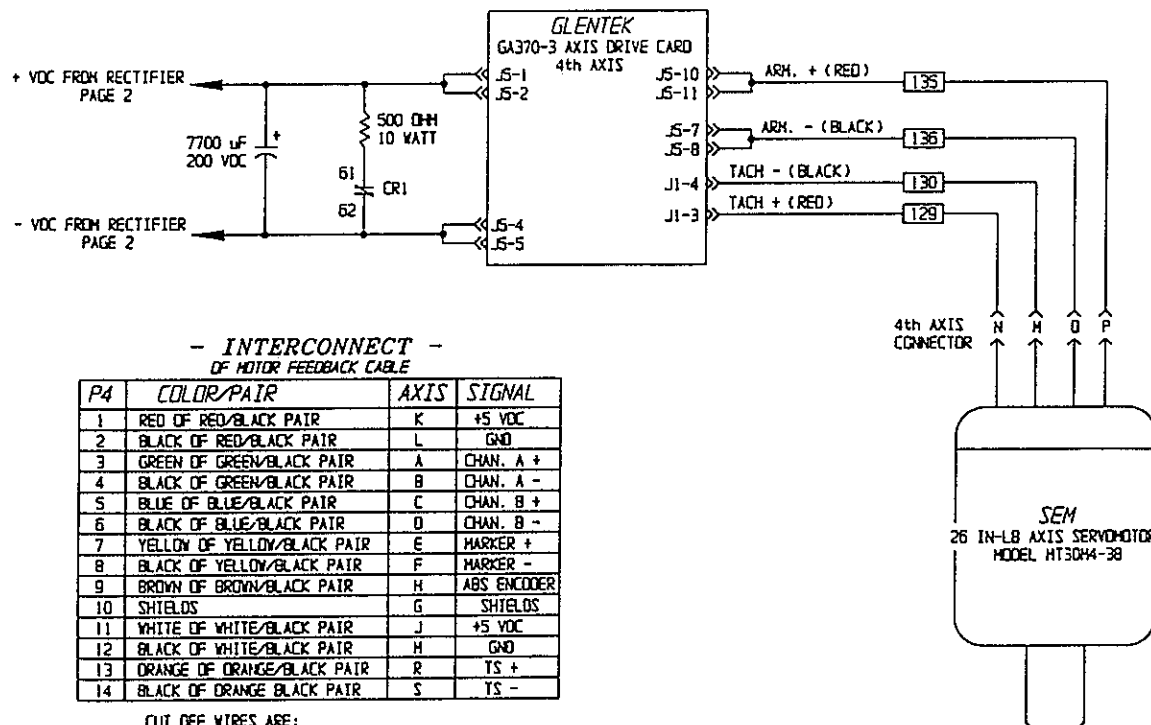
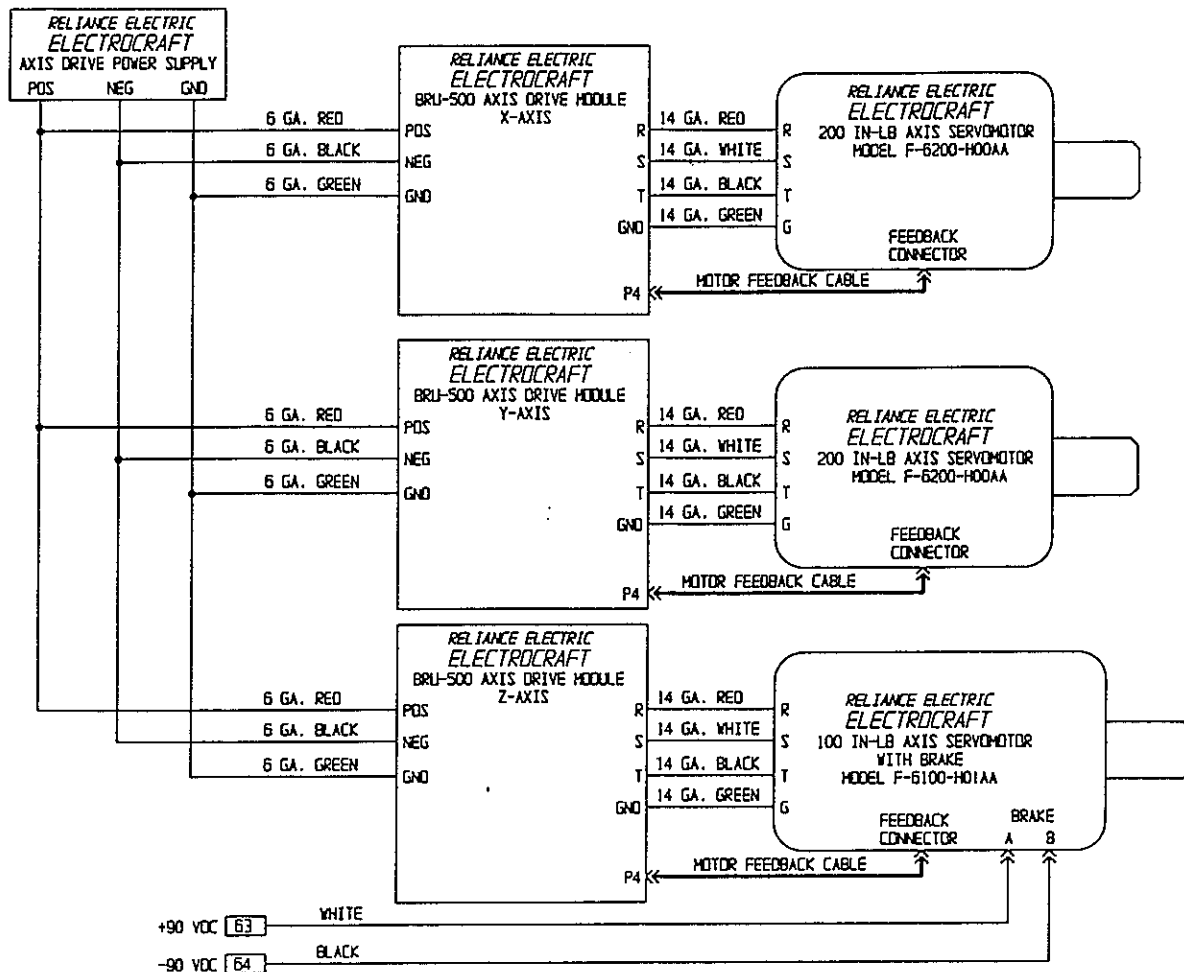
CENTURION V CNC CARD CAGE



A	FILE CORRECTIONS	2518	DMZ	DEC 95
REV.	DESCRIPTION	E.C.G. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE 1:1	DWG No. 6-06-029-000	SIZE 8
APPLICATION	PARTNER X	DATE 13 APR 95	DRAWN BY REUTER	SHEET NO. 5 OF 9



A	FILE CORRECTIONS	2518	Dm/L	DEC 95
REV.	DESCRIPTION	E.C.B. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE 1:1	DWG NO. 6-06-029-000	SIZE 8
APPLICATION	PARTNER X	DATE 13 APR 95	DRAWN BY PEITNER	SHEET NO. 6 OF 9

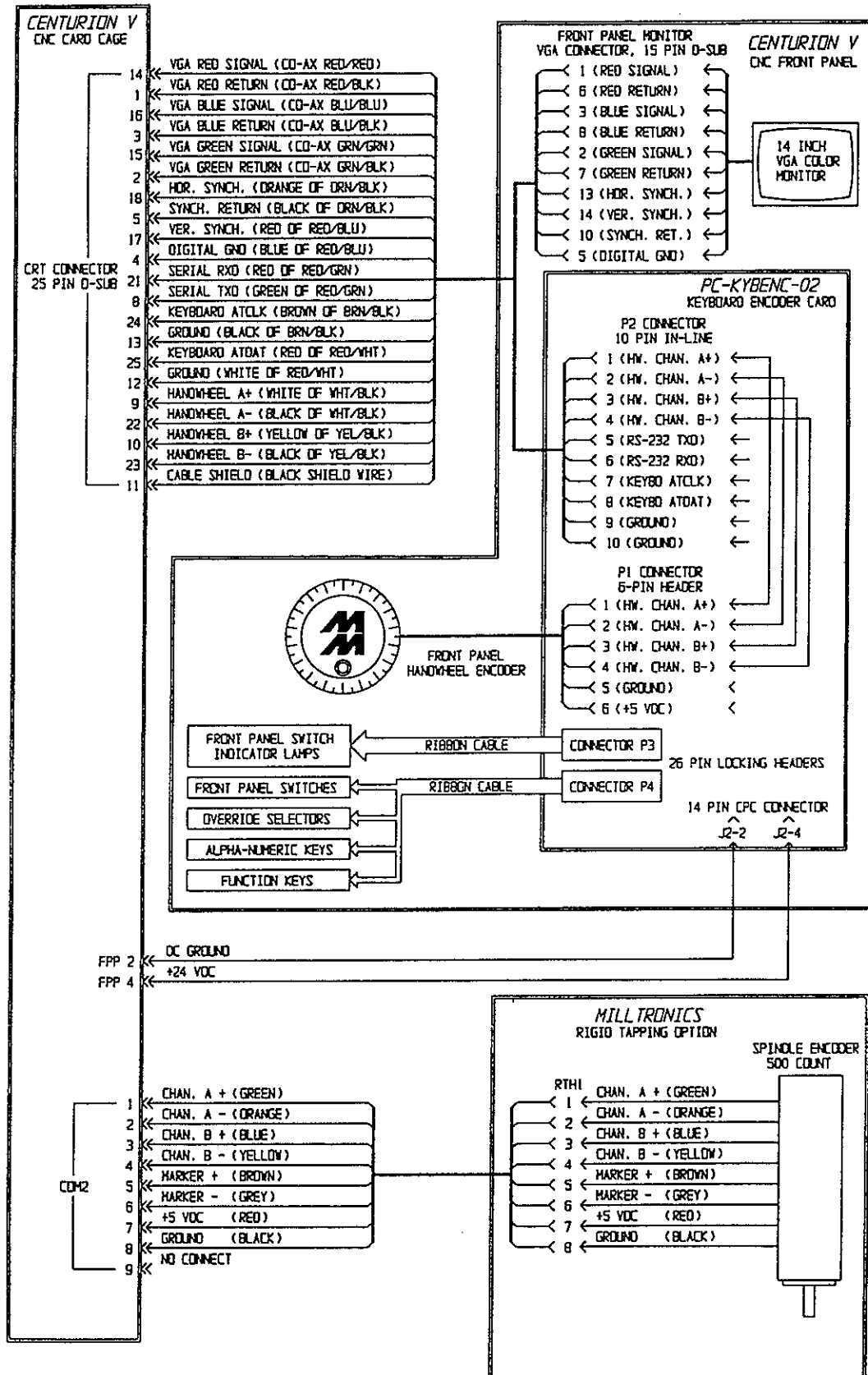


- INTERCONNECT -
OF MOTOR FEEDBACK CABLE

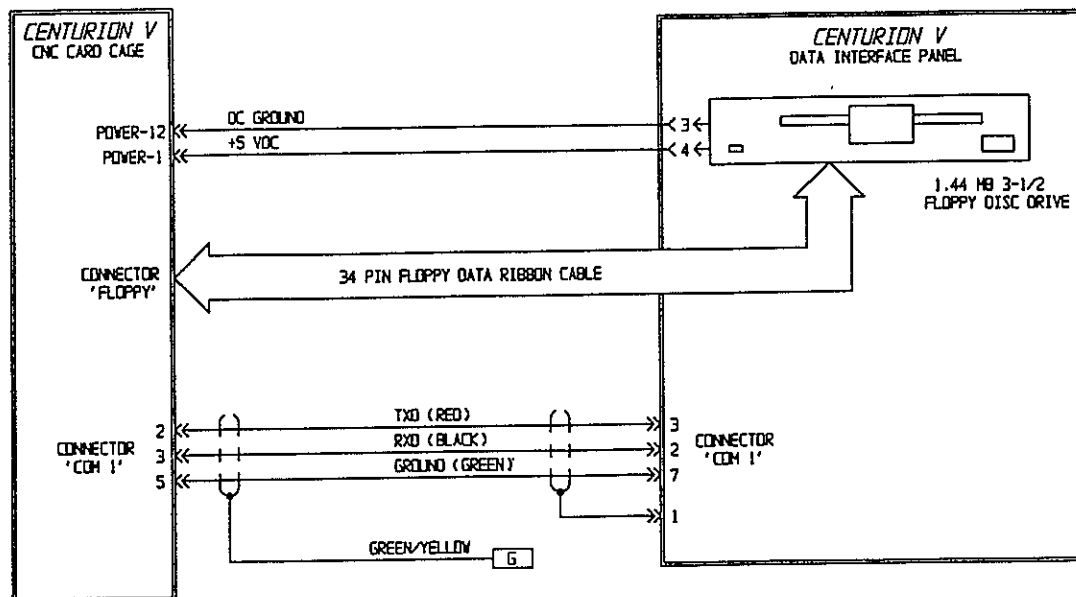
P4	COLOR/PAIR	AXIS	SIGNAL
1	RED OF RED/BLACK PAIR	K	+5 VDC
2	BLACK OF RED/BLACK PAIR	L	GND
3	GREEN OF GREEN/BLACK PAIR	A	CHAN. A +
4	BLACK OF GREEN/BLACK PAIR	B	CHAN. A -
5	BLUE OF BLUE/BLACK PAIR	C	CHAN. B +
6	BLACK OF BLUE/BLACK PAIR	D	CHAN. B -
7	YELLOW OF YELLOW/BLACK PAIR	E	MARKER +
8	BLACK OF YELLOW/BLACK PAIR	F	MARKER -
9	BROWN OF BROWN/BLACK PAIR	H	ABS ENCODER
10	SHIELDS	G	SHIELDS
11	WHITE OF WHITE/BLACK PAIR	J	+5 VDC
12	BLACK OF WHITE/BLACK PAIR	H	GND
13	ORANGE OF ORANGE/BLACK PAIR	R	TS +
14	BLACK OF ORANGE/BLACK PAIR	S	TS -

CUT OFF WIRES ARE:
BLACK OF BROWN/BLACK PAIR, RED/GREEN PAIR,
WHITE/RED PAIR AND RED/BLUE PAIR

A	FILE CORRECTIONS	2518	DMR	DEC 95
REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE 1:1	DWG No. 6-06-029-000	SIZE 8
APPLICATION	PARTNER X	DATE 13 APR 95	DRAWN BY REUTER	SHEET NO. 7 OF 9



A	FILE CORRECTIONS	2518	Dml	DEC 95
REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE 1:1	DATE 13 APR 95	SIZE 8
APPLICATION	PARTNER X	DWG No. 6-06-029-000	DRAWN BY REUTER	SHEET NO. 8 OF 9



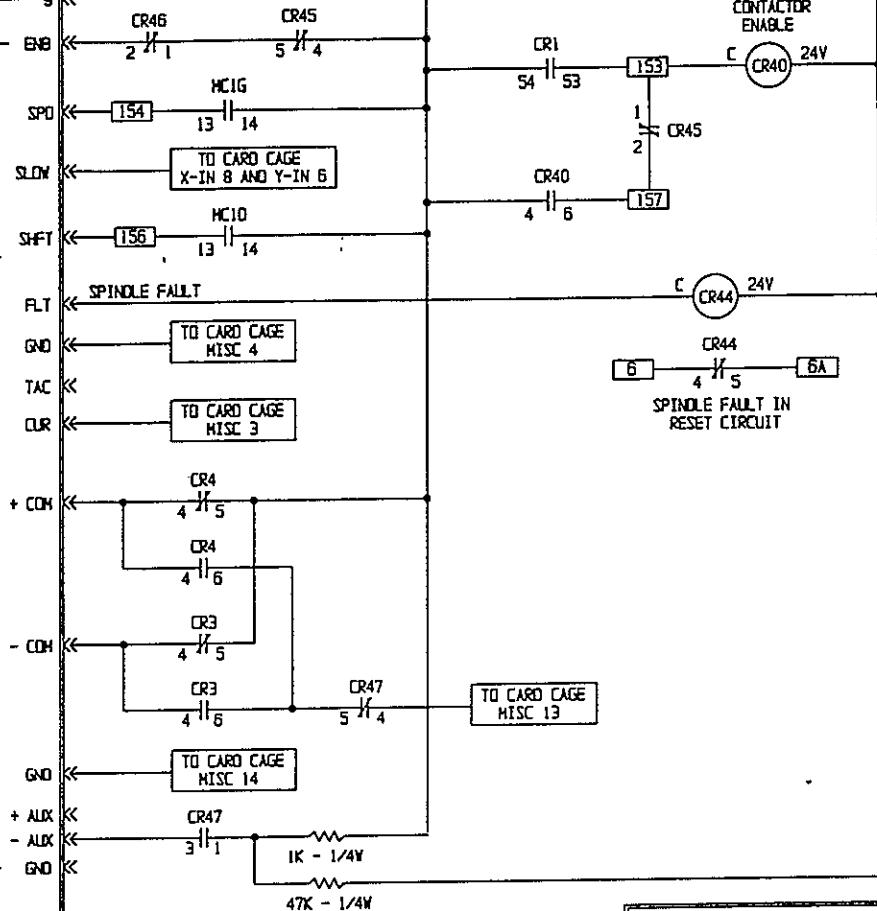
A	FILE CORRECTIONS	2518	Dmrl	DEC 95
REV.	DESCRIPTION	E.C.D. NO.	APP'D BY	DATE
TITLE	COMPLETE MACHINE WIRING	SCALE 1:1	DWG No. 6-06-029-000	SIZE 8
APPLICATION	PARTNER X	DATE 13 APR 95	DRAWN BY REUTER	SHEET NO. 9 OF 9

CUSTOM SERVO MOTORS
SPINDLE CONTROLLER
MODEL MPA-80

ENC TERMINAL
1 CHAN. A+ (GRN)
2 CHAN. B+ (BLU)
3 MARKER + (BRN)
4 GROUND (BLK)
5 CHAN. A- (GRN)
6 CHAN. B- (YEL)
7 MARKER - (GRY)
8 GROUND (VIO)
9

TO CARD CAGE
COM 2 PORT

I/O
TERMINAL



FEEDBACK
TERMINAL
(FROM MOTOR)

SHLD
THERM. SV. GND
THERMAL SWITCH
SIN GND
SIN
COS GND
COS
REF GND
REF

OUTPUT POWER
R
S
T
G

SPINDLE MOTOR SHIFT LOGIC
SEE DRAWING No. 6-06-018-061

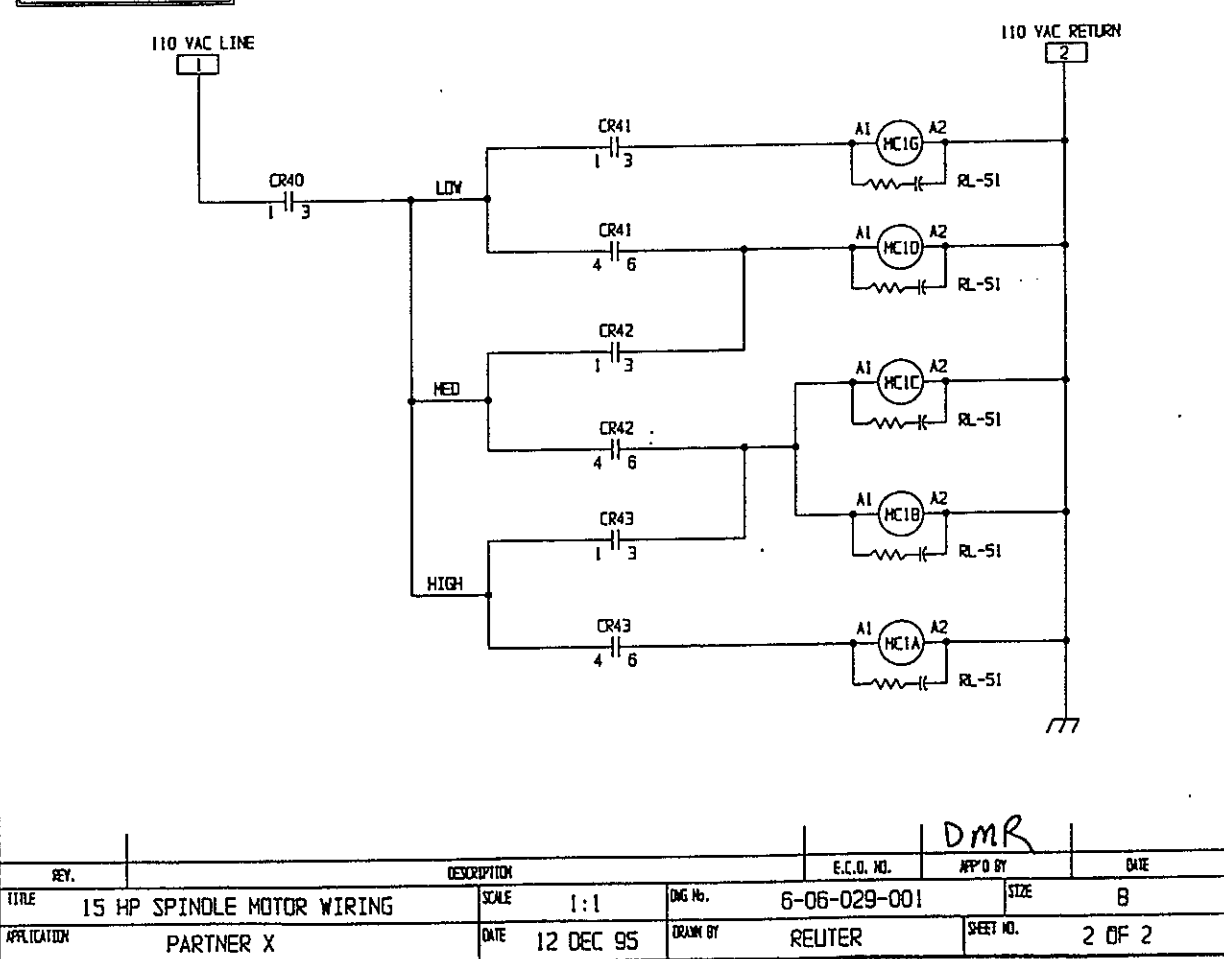
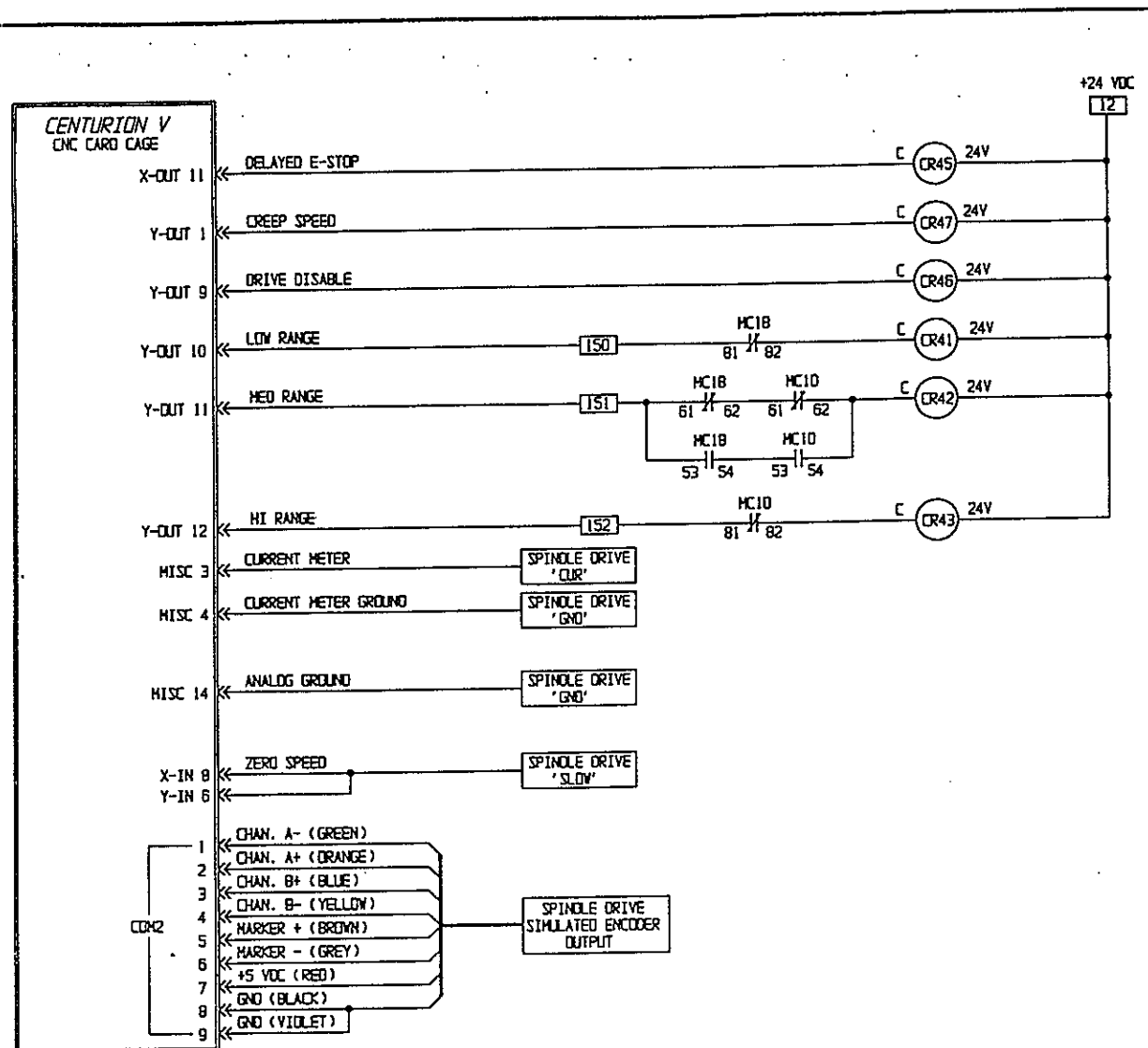
10 GA. BLK
L1
L2
R1
R2
S1
S2
H1
H2
N1
N2
T1
T2

14 GA. GRN/YEL
G

CUSTOM SERVO MOTORS
15 HP SERVO SPINDLE MOTOR

9 SHIELD
8
7 THERMAL SWITCH
6 SINE GROUND
3 SINE
5 COSINE GROUND
4 COSINE
1 REFERENCE GROUND
2 REFERENCE
MOTOR TERMINAL STRIP

REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
1	15 HP SPINDLE MOTOR WIRING	6-06-029-001	DMR	8
APPLICATION	PARTNER X	DATE	DRAWN BY	SHEET NO.
	12 DEC 95	REUTER		1 OF 2



REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
TITLE	15 HP SPINDLE MOTOR WIRING	SCALE 1:1	DWG No. 6-06-029-001	SIZE 8
APPLICATION	PARTNER X	DATE 12 DEC 95	DRAWN BY REUTER	SHEET NO. 2 OF 2