

6 TABLE I

VERSION	VERSION CHARACTERISTIC	CR3 975001-001	R24 150.0 1/4 W, 5% 973000-151	C21	R18	C16
-001	STANDARD	OMIT	OMIT	1UF	14.3K 1%	OMIT
-002	W/WRT PROTECT LED	USE	USE	1UF	14.3K 1%	OMIT
-003	FAST SEEK STEPPER MOTOR	USE	USE	.47UF	11.0K 1%	OMIT
-004	W/WRT PROTECT LED/ACCESS MATRIX	USE	USE	1UF	14.3K 1%	.47UF

REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPR
E	REVISED PER EO 13094	11/14/83	AG	ABL	mm
F	REVISED PER EO 13195 B	2/17/83	E.A.	1/16	
G	REVISED PER EO 13206	3/14/83	HB	1/16	
H	REVISED PER EO 13386	7/12/83	JK	1/16	

I.C. TABLE	
U1	UDN5712M
U2	UDN5712M
U3	LM2917
U4	7406
U5	7404
U6	7474
U7	74191
U8	74221
U9	75464
U10	LM555

SPARE GATES	
I.C.	QTY
U6	1

LAST USED		
U10	CR3	R24
Q2	C24	TP3

PIN LIST		
CONN NAME	# OF PINS	USE
J1	4	SPINDLE MOTOR
J2	4	POWER
J3	6	STEPPER
J4	6	CONTROL
J5	2	DISKETTE LOADED

6 FOR PART NUMBER, VALUE & USAGE OF COMPONENTS AFFECTED BY VERSION NUMBER, SEE TABLE I

5. C12 USED FOR TEMP COMP.

4. ALL DIODES ARE IN 4446

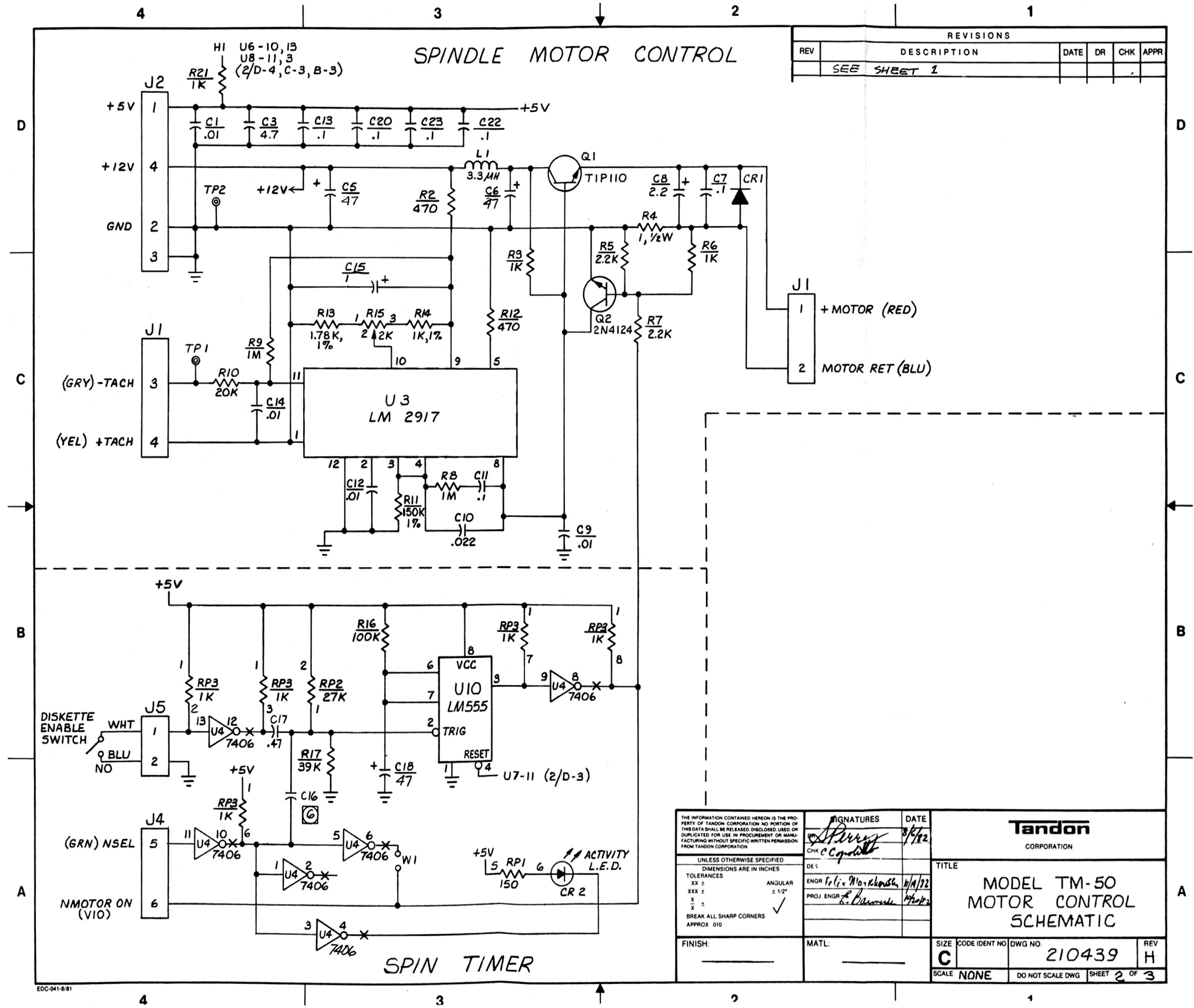
3. CAPACITORS ARE IN μ F, $\pm 20\%$

2. 1% RESISTORS 1/8 W

1. ALL RESISTORS ARE IN OHMS, 1/4 W, 5%

NOTES UNLESS OTHERWISE SPECIFIED

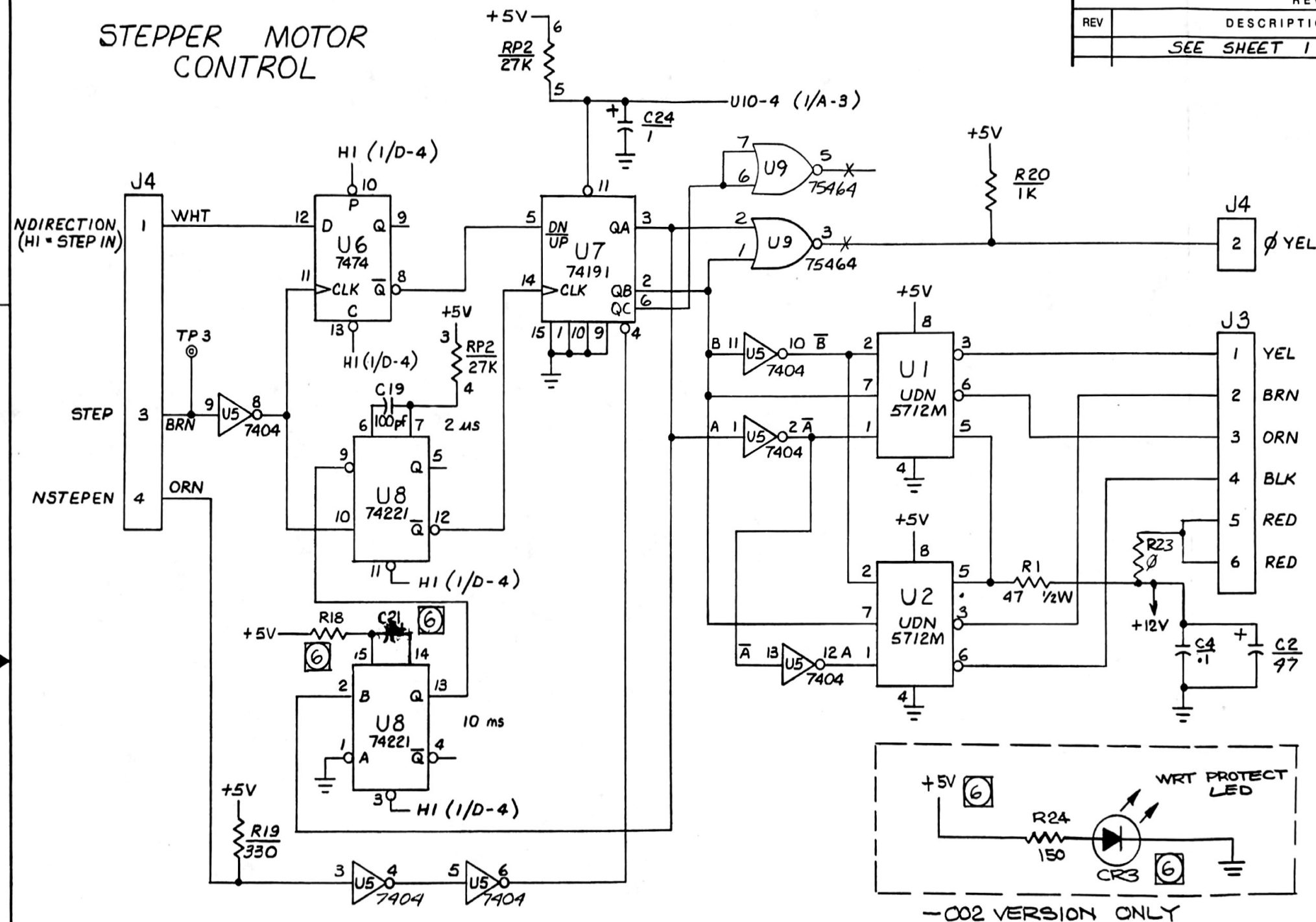
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DR	H. Green		
TOLERANCES XX \pm XXX \pm X \pm X \pm BREAK ALL SHARP CORNERS APPROX .010		CHK	James B. Hays		
		DES			
		ENGR	Mark P. Hays	2/1/83	TITLE MODEL TM-50 MOTOR CONTROL SCHEMATIC
		PROJ ENGR			
FINISH		MATL.		SIZE C	CODE IDENT NO
				DWG NO	210439
				REV	H
				SCALE 1:1 ONE	DO NOT SCALE DWG
				SHEET 1 OF 3	



REVISIONS					
REV	DESCRIPTION	DATE	DR	CHK	APPR
1	SEE SHEET 1				

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CHK <i>[Signature]</i>		8/6/82	TITLE	
TOLERANCES XX ± XXX ± X ± BREAK ALL SHARP CORNERS APPROX .010		DES <i>[Signature]</i>		8/4/82	MODEL TM-50 MOTOR CONTROL SCHEMATIC	
FINISH: _____		MATL: _____		SIZE C	CODE IDENT NO 210439	DWG NO H
				SCALE NONE	DO NOT SCALE DWG	SHEET 2 OF 3

STEPPER MOTOR CONTROL



NOTE: COLORS REFER TO MOTOR WIRING.

TWO PHASES			
	(CW) STEP OUT	(CCW) STEP IN	
Ø 1 ON	YEL BLK	YEL BRN	
Ø 2 ON	ORN BLK	ORN BRN	
Ø 3 ON	ORN BRN	ORN BLK	
Ø 4 ON	YEL BRN	YEL BLK	

SINGLE PHASE	
(CW) STEP OUT	(CCW) STEP IN
YEL	YEL
BLK	BRN
ORN	ORN
BRN	BLK

NOTES: UNLESS OTHERWISE SPECIFIED

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES XX ± XXX ± X X ± BREAK ALL SHARP CORNERS APPROX 010		DR	CHK	
		DES	ENGR	
		PROJ ENGR		
FINISH:		MATL:		
		TITLE		
		MODEL TM-50 MOTOR CONTROL SCHEMATIC		
SIZE C	CODE IDENT NO.	DWG NO. 210439	REV H	
SCALE NONE	DO NOT SCALE DWG		SHEET 3 OF 3	