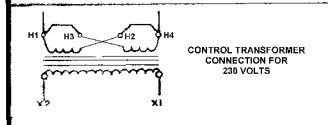


R SPEED SWITCH	X CONTACTOR CLOSED	POWER FEED REVERSING SWITCH
		CIRCUIT LEFT STOP RIGHT
CONTACT	H N L	
T13-L3	X	X
T3-L3	X	X
L1-T13	X	X
T1-L1	X	X
L2-T12	X	X
T2-L2	X	X
6-3	X	X

CONNECTIONS FOR DUAL VOLTAGE MOTORS	
VOLT LINES TOGETHER	VOLT LINES TOGETHER
HIGH 1-2 3-4 5-6 6-9	HIGH 11-12 13-14 15-16 16-9
LOW 1-2 3-4 5-6	LOW 11-12 13-14 15-16

PUMP MOTOR - RPM SPEED CHANGE MOTOR	
VOLTAGE	TOGETHER
440 V T1 T2 T3	T4-T5-T6
220 V T1-T6 T2-T4 T3-T5	

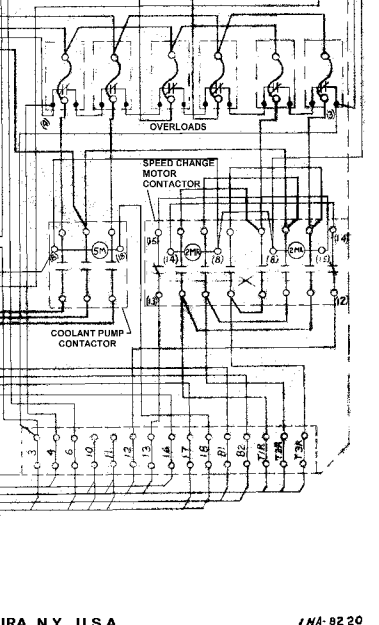
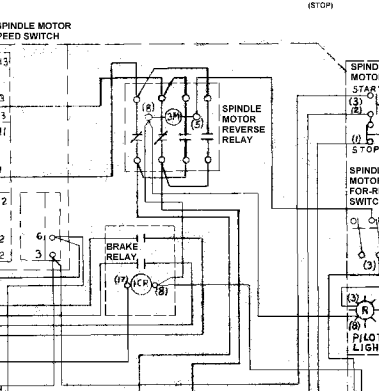
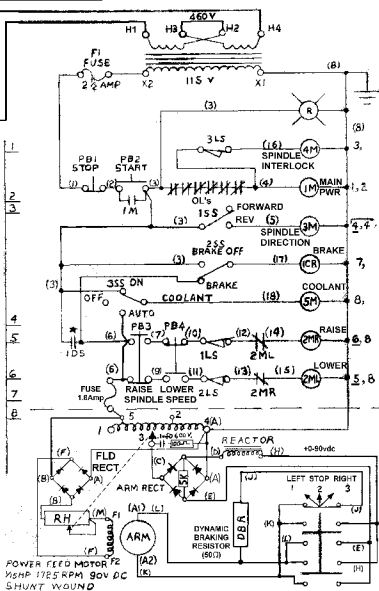
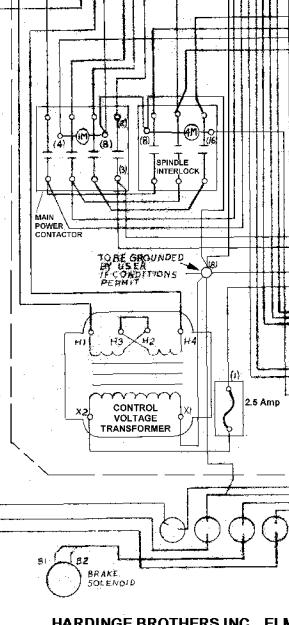
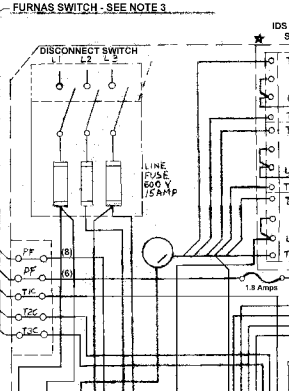
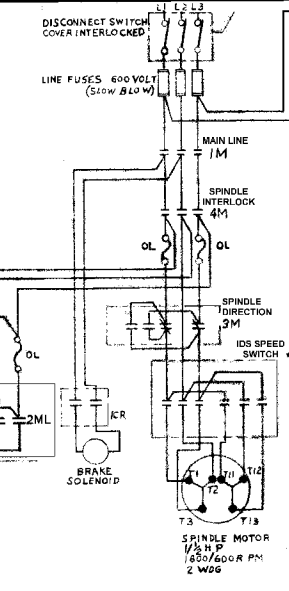
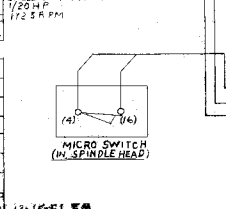
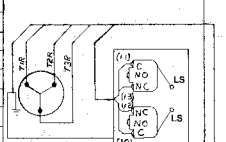
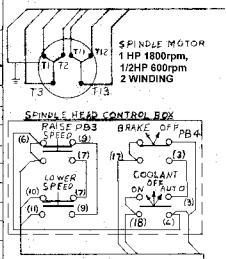
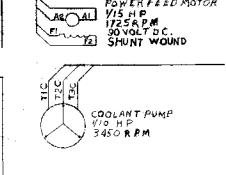
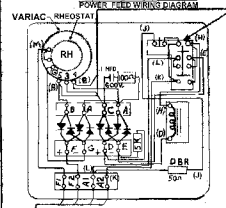
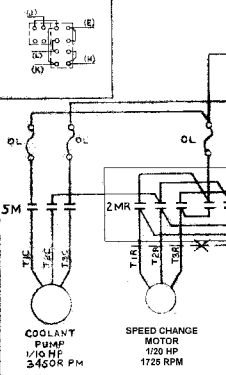
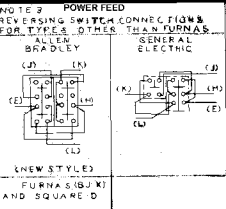
NOTE:
POWER MUST BE CONNECTED TO MACHINE SO THAT SPINDLE TURNS COUNTER CLOCKWISE (VIEWED FROM TAILSTOCK) WHEN CONTROLS ARE SET TO GIVE FORWARD MOTION, BEFORE SPEED CHANGE MECHANISM IS OPERATED.



MOTOR	VOLT	HEATER	HEATER SCHEDULE
SPINDLE	440	C 0.54A	
COOLANT PUMP	230	C 0.54A	
	440	C 0.36A	
SPEED CHANGE	230	C 0.54A	
	440	C 0.36A	

F1	CONTROL CIRCUIT FUSE	JHC-9610
PB2	MASTER STOP BUTTON	J6-9072
	LAMP FOR PILOT LIGHT	LGR-10557
	MAIN LINE FUSE 440VOLT	LH-9610
	MAIN LINE FUSES 220 VOLT	SL-1057A
	OVERLOAD RELAY	HR-1122
	PILOT LIGHT	CGH-9971
3.5.5	COOLANT SWITCH	L-9553
18S.28S	BRAKE SWITCH - FOR-REV. SWITCH	HC-9051
PB1	MASTER START BUTTON	CV-9051
	CONTROL CIRCUIT TRANSFORMER	HL-9776
D1S	DISCONNECT SWITCH	JG-10016
IDS	SPEED SWITCH (CAM)	LV-2835
ICR	BRAKE RELAY	JML-10118
SM	COOLANT PUMP CONTACTOR	LM-8715
4M	SPINDLE INTERLOCK CONTACTOR	LH-5775
3M	REVERSING CONTACTOR	HC-5775
1M	MAIN LINE CONTACTOR	HC-8775
SMR-2ML	CONTACTOR FOR SPEED CHANGE MOTOR	LV-K230
SYMBOL	NAME	HARDING NO.

POWER FEED CONTROL		
DBR	DYNAMIC BRAKING RESISTOR, 60Ω	RF-12472
	REVERSING SWITCH	= 3650
	REACTOR	CF-1059
RH	FIELD CONTROL RHEOSTAT	CF-0764
	VARIABLE AUTOTRANSFORMER	CA-9506
SYMBOL	NAME	HARDING NO.



DEC 9 1961