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1403 PRINTER SYSTEM DIAGRAM
MACHINE SERIAL NUMBER

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INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	SEE INDEX CARD				X PRINT TO ENG. SPEC. NO.	
	00.01.0	3-6-61	110678B				
DESIGN	10-13-59 MODEL 1403	6-15-61	111980C				
DETAIL	10-13-59	7-12-61	111306J				
CHECK	10-29-59 DRAW						00.01.0
APPROV	10-30-59 CHECK						

SC-1

474201

8	01.01.1 HAMMER RETURN 9 & 11	7	01.01.1 HAMMER DRIVE 9	6	01.01.1 HAMMER DRIVE 7	5	01.01.1 HAMMER RETURN 5 & 7	4	01.01.1 HAMMER DRIVE 5	3	01.01.1 HAMMER DRIVE 3	2	01.01.1 HAMMER RETURN 1 & 3	1	01.01.1 HAMMER DRIVE 1
16	01.01.1 HAMMER DRIVE 21	15	01.01.1 HAMMER DRIVE 19	14	01.01.1 HAMMER RETURN 17 & 19	13	01.01.1 HAMMER DRIVE 17	12	01.01.1 HAMMER DRIVE 15	11	01.01.1 HAMMER RETURN 13 & 15	10	01.01.1 HAMMER DRIVE 13	9	01.01.1 HAMMER DRIVE 11
24	01.01.1 HAMMER DRIVE 31	23	01.01.1 HAMMER RETURN 29 & 31	22	01.01.1 HAMMER DRIVE 29	21	01.01.1 HAMMER DRIVE 27	20	01.01.1 HAMMER RETURN 25 & 27	19	01.01.1 HAMMER DRIVE 25	18	01.01.1 HAMMER DRIVE 23	17	01.01.1 HAMMER RETURN 21 & 23
32	01.01.1 HAMMER RETURN 41 & 43	31	01.01.1 HAMMER DRIVE 41	30	01.01.1 HAMMER DRIVE 39	29	01.01.1 HAMMER RETURN 37 & 39	28	01.01.1 HAMMER DRIVE 37	27	01.01.1 HAMMER DRIVE 35	26	01.01.1 HAMMER RETURN 33 & 35	25	01.01.1 HAMMER DRIVE 33
40	01.01.1 HAMMER DRIVE 53	39	01.01.1 HAMMER DRIVE 51	38	01.01.1 HAMMER RETURN 49 & 51	37	01.01.1 HAMMER DRIVE 49	36	01.01.1 HAMMER DRIVE 47	35	01.01.1 HAMMER RETURN 45 & 47	34	01.01.1 HAMMER DRIVE 45	33	01.01.1 HAMMER DRIVE 43
48	01.01.1 HAMMER DRIVE 63	47	01.01.1 HAMMER RETURN 61 & 63	46	01.01.1 HAMMER DRIVE 61	45	01.01.1 HAMMER DRIVE 59	44	01.01.1 HAMMER RETURN 57 & 59	43	01.01.1 HAMMER DRIVE 57	42	01.01.1 HAMMER DRIVE 55	41	01.01.1 HAMMER RETURN 53 & 55
56	01.02.1 HAMMER RETURN 73 & 75	55	01.02.1 HAMMER DRIVE 73	54	01.02.1 HAMMER DRIVE 71	53	01.02.1 HAMMER RETURN 69 & 71	52	01.02.1 HAMMER DRIVE 69	51	01.01.1 HAMMER DRIVE 67	50	01.01.1 HAMMER RETURN 65 & 67	49	01.01.1 HAMMER DRIVE 65
64	01.02.1 HAMMER DRIVE 85	63	01.02.1 HAMMER DRIVE 83	62	01.02.1 HAMMER RETURN 81 & 83	61	01.02.1 HAMMER DRIVE 81	60	01.02.1 HAMMER DRIVE 79	59	01.02.1 HAMMER RETURN 77 & 79	58	01.02.1 HAMMER DRIVE 77	57	01.02.1 HAMMER DRIVE 75
72	01.02.1 HAMMER DRIVE 95	71	01.02.1 HAMMER RETURN 93 & 95	70	01.02.1 HAMMER DRIVE 93	69	01.02.1 HAMMER DRIVE 91	68	01.02.1 HAMMER RETURN 89 & 91	67	01.02.1 HAMMER DRIVE 89	66	01.02.1 HAMMER DRIVE 87	65	01.02.1 HAMMER RETURN 85 & 87
80	01.02.1 HAMMER RETURN 105 & 107	79	01.02.1 HAMMER DRIVE 105	78	01.02.1 HAMMER DRIVE 103	77	01.02.1 HAMMER RETURN 101 & 103	76	01.02.1 HAMMER DRIVE 101	75	01.02.1 HAMMER DRIVE 99	74	01.02.1 HAMMER RETURN 97 & 99	73	01.02.1 HAMMER DRIVE 97
88	01.02.1 HAMMER DRIVE 117	87	01.02.1 HAMMER DRIVE 115	86	01.02.1 HAMMER RETURN 113 & 115	85	01.02.1 HAMMER DRIVE 113	84	01.02.1 HAMMER DRIVE 111	83	01.02.1 HAMMER RETURN 109 & 111	82	01.02.1 HAMMER DRIVE 109	81	01.02.1 HAMMER DRIVE 107
96	01.02.1 HAMMER DRIVE 127	95	01.02.1 HAMMER RETURN 125 & 127	94	01.02.1 HAMMER DRIVE 125	93	01.02.1 HAMMER DRIVE 123	92	01.02.1 HAMMER RETURN 121 & 123	91	01.02.1 HAMMER DRIVE 121	90	01.02.1 HAMMER DRIVE 119	89	01.02.1 HAMMER RETURN 117 & 119
104	SPARE #18	103	SPARE #18	102	SPARE #18	101	SPARE #18	100	SPARE #18	99	01.02.1 HAMMER DRIVE 131	98	01.02.1 HAMMER RETURN 129 & 131	97	01.02.1 HAMMER DRIVE 129
112	01.05.1 SHIELD GND	111	01.05.1 SHIELD GND	110	SPARE #18	109	01.05.1 -20V	108	SPARE #18	107	SPARE #18	106	SPARE #18	105	SPARE #18
120	01.06.1 -T RUN MODE	119	01.07.1 HIGH SPEED STOP IND DRIVE	118	01.07.1 LOW SPEED STOP IND DRIVE	117	01.06.1 +T FORMS CHECK OR CARR. STOP	116	01.07.1 HIGH SPEED START IND DRIVE	115	01.07.1 LOW SPEED START IND DRIVE	114	SPARE #20	113	SPARE #20
128	SPARE #20	127	01.07.1 CARRIAGE INTLK	126	SPARE #20	125	SPARE #20	124	01.05.1 DC GND RETURN	123	SPARE #20	122	SPARE #20	121	01.05.1 -12V
136	01.06.1 -T START RELAY	135	SPARE #20	134	01.07.1 END OF FORMS	133	01.07.1 CHAIN MOTOR RELAY	132	01.09.1 PRINT COMN INTLK 1	131	SPARE #20	130	01.06.1 +U PRINT READY IND	129	SPARE #20
144	01.06.1 -T CHECK RESET	143	01.08.1 +12V	142	01.08.1 SENSE AMP -2	141	01.08.1 SENSE AMP -1	140	01.05.1 -6V	139	01.05.1 +6V	138	01.06.1 -T RESTORE KEY	137	01.06.1 +U RESTORE KEY
152	01.06.1 +U SINGLE CYCLE	151	01.06.1 -T SINGLE CYCLE	150	01.06.1 PRINT CHECK IND	149	01.06.1 -T STOP KEY	148	01.06.1 -6V	147	01.06.1 -6V	146	SPARE #20	145	SPARE #20
160	01.06.1 +U SYNC CHECK IND	159	01.06.1 +U END OF FORMS IND	158	SPARE #20	157	01.06.1 -T SPACE KEY	156	01.06.1 +U SPACE KEY	155	01.06.1 +6V	154	01.06.1 +U NOT START KEY	153	01.06.1 +U START KEY

WIRING SIDE
FIXED MOUNT

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM	11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	00.02.1
00.02.1	1-20-60	108131-A				
DESIGN 10-15-59 MODEL: 1403	3-17-60	108432B				
DETAIL 10-15-59	5-13-60	108465A				
CHECK 10-20-59 DRAW	10-5-60	110140A				
APPROVED 10-20-59 CHECK						

474201

SC-2

474202

8	01.03.1 HAMMER RETURN 10 & 12	7	01.03.1 HAMMER DRIVE 10	6	01.03.1 HAMMER DRIVE 8	5	01.03.1 HAMMER RETURN 6 & 8	4	01.03.1 HAMMER DRIVE 6	3	01.03.1 HAMMER DRIVE 4	2	01.03.1 HAMMER RETURN 2 & 4	1	01.03.1 HAMMER DRIVE 2
16	01.03.1 HAMMER DRIVE 22	15	01.03.1 HAMMER DRIVE 20	14	01.03.1 HAMMER RETURN 18 & 20	13	01.03.1 HAMMER DRIVE 18	12	01.03.1 HAMMER DRIVE 16	11	01.03.1 HAMMER RETURN 14 & 16	10	01.03.1 HAMMER DRIVE 14	9	01.03.1 HAMMER DRIVE 12
24	01.03.1 HAMMER DRIVE 32	23	01.03.1 HAMMER RETURN 30 & 32	22	01.03.1 HAMMER DRIVE 30	21	01.03.1 HAMMER DRIVE 28	20	01.03.1 HAMMER RETURN 26 & 28	19	01.03.1 HAMMER DRIVE 26	18	01.03.1 HAMMER DRIVE 24	17	01.03.1 HAMMER RETURN 22 & 24
32	01.03.1 HAMMER RETURN 42 & 44	31	01.03.1 HAMMER DRIVE 42	30	01.03.1 HAMMER DRIVE 40	29	01.03.1 HAMMER RETURN 38 & 40	28	01.03.1 HAMMER DRIVE 38	27	01.03.1 HAMMER DRIVE 36	26	01.03.1 HAMMER RETURN 34 & 36	25	01.03.1 HAMMER DRIVE 34
40	01.03.1 HAMMER DRIVE 54	39	01.03.1 HAMMER DRIVE 52	38	01.03.1 HAMMER RETURN 50 & 52	37	01.03.1 HAMMER DRIVE 50	36	01.03.1 HAMMER DRIVE 48	35	01.03.1 HAMMER RETURN 46 & 48	34	01.03.1 HAMMER DRIVE 46	33	01.03.1 HAMMER DRIVE 44
48	01.03.1 HAMMER DRIVE 64	47	01.03.1 HAMMER RETURN 62 & 64	46	01.03.1 HAMMER DRIVE 62	45	01.03.1 HAMMER DRIVE 60	44	01.03.1 HAMMER RETURN 58 & 60	43	01.03.1 HAMMER DRIVE 58	42	01.03.1 HAMMER DRIVE 56	41	01.03.1 HAMMER RETURN 54 & 56
56	01.04.1 HAMMER RETURN 74 & 76	55	01.04.1 HAMMER DRIVE 74	54	01.04.1 HAMMER DRIVE 72	53	01.04.1 HAMMER RETURN 70 & 72	52	01.04.1 HAMMER DRIVE 70	51	01.03.1 HAMMER DRIVE 68	50	01.03.1 HAMMER RETURN 66 & 68	49	01.03.1 HAMMER DRIVE 66
64	01.04.1 HAMMER DRIVE 86	63	01.04.1 HAMMER DRIVE 84	62	01.04.1 HAMMER RETURN 82 & 84	61	01.04.1 HAMMER DRIVE 82	60	01.04.1 HAMMER DRIVE 80	59	01.04.1 HAMMER RETURN 78 & 80	58	01.04.1 HAMMER DRIVE 78	57	01.04.1 HAMMER DRIVE 76
72	01.04.1 HAMMER DRIVE 96	71	01.04.1 HAMMER RETURN 94 & 96	70	01.04.1 HAMMER DRIVE 94	69	01.04.1 HAMMER DRIVE 92	68	01.04.1 HAMMER RETURN 90 & 92	67	01.04.1 HAMMER DRIVE 90	66	01.04.1 HAMMER DRIVE 88	65	01.04.1 HAMMER RETURN 86 & 88
80	01.04.1 HAMMER RETURN 106 & 108	79	01.04.1 HAMMER DRIVE 106	78	01.04.1 HAMMER DRIVE 104	77	01.04.1 HAMMER RETURN 102 & 104	76	01.04.1 HAMMER DRIVE 102	75	01.04.1 HAMMER DRIVE 100	74	01.04.1 HAMMER RETURN 98 & 100	73	01.04.1 HAMMER DRIVE 98
88	01.04.1 HAMMER DRIVE 118	87	01.04.1 HAMMER DRIVE 116	86	01.04.1 HAMMER RETURN 114 & 116	85	01.04.1 HAMMER DRIVE 114	84	01.04.1 HAMMER DRIVE 112	83	01.04.1 HAMMER RETURN 110 & 112	82	01.04.1 HAMMER DRIVE 110	81	01.04.1 HAMMER DRIVE 108
96	01.04.1 HAMMER DRIVE 128	95	01.04.1 HAMMER RETURN 126 & 128	94	01.04.1 HAMMER DRIVE 126	93	01.04.1 HAMMER DRIVE 124	92	01.04.1 HAMMER RETURN 122 & 124	91	01.04.1 HAMMER DRIVE 122	90	01.04.1 HAMMER DRIVE 120	89	01.04.1 HAMMER RETURN 118 & 120
104	SPARE #18	103	SPARE #18	102	SPARE #18	101	SPARE #18	100	SPARE #18	99	01.04.1 HAMMER DRIVE 132	98	01.04.1 HAMMER RETURN 130 & 132	97	01.04.1 HAMMER DRIVE 130
112	01.05.1 SHIELD GND	111	01.05.1 SHIELD GND	110	SPARE #18	109	SPARE #18	108	SPARE #18	107	SPARE #18	106	SPARE #18	105	SPARE #18
120	SPARE #20	119	SPARE #20	118	SPARE #20	117	SPARE #20	116	SPARE #20	115	SPARE #20	114	SPARE #20	113	SPARE #20
128	SPARE #20	127	SPARE #20	126	01.07.1 -60V CONTROLLED	125	01.09.1 PRINT CONN INTLK 2	124	SPARE #20	123	SPARE #20	122	SPARE #20	121	SPARE #20
136	02.02.1 SLOW BRUSH 7	135	02.02.1 SLOW BRUSH 6	134	02.02.1 SLOW BRUSH 5	133	02.02.1 SLOW BRUSH 4	132	02.02.1 SLOW BRUSH 3	131	02.02.1 SLOW BRUSH 2	130	02.02.1 SLOW BRUSH 1	129	SPARE #20
144	02.03.1 STOP BRUSH 3	143	02.03.1 STOP BRUSH 2	142	02.03.1 STOP BRUSH 1	141	02.02.1 SLOW BRUSH 12	140	02.02.1 SLOW BRUSH 11	139	02.02.1 SLOW BRUSH 10	138	02.02.1 SLOW BRUSH 9	137	02.02.1 SLOW BRUSH 8
152	02.03.1 STOP BRUSH 11	151	02.03.1 STOP BRUSH 10	150	02.03.1 STOP BRUSH 9	149	02.03.1 STOP BRUSH 8	148	02.03.1 STOP BRUSH 7	147	02.03.1 STOP BRUSH 6	146	02.03.1 STOP BRUSH 5	145	02.03.1 STOP BRUSH 4
160	01.06.1 +UFORMS CHECK IND	159	02.01.1 EMITTER	158	02.01.1 HIGH SPEED STOP	157	02.01.1 HIGH SPEED START	156	02.01.1 LOW SPEED STOP	155	02.01.1 LOW SPEED START	154	SPARE #20	153	02.03.1 STOP BRUSH 12

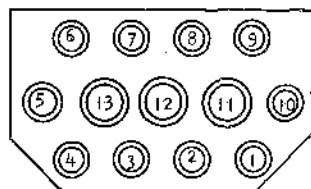
WIRING SIDE
FIXED MOUNT

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME: SYSTEM DIAGRAM	11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	00.02.2
DESIGN: 10-16-59 MODEL 1403	1-20-60	108131-A				
DETAIL: 10-16-59	3-17-60	108432B				
CHECK: 10-27-59 DRAW						
APPROVED: 10-20-59 CHECK						

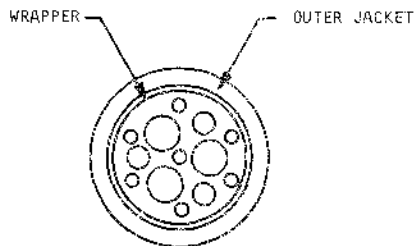
474202

PP-1 PRINTER POWER

POWER PLUG PIN ASSIGNMENTS				
PRINTER		POWER CABLE		SYSTEM PAGE
PIN NO	VOLTAGE OR CONTROL	WIRE SIZE	TYPE	
1	AC OUTLET - 115 VOLTS	14	AC	01.05.1
2	AC OUTLET - 115 VOLTS	14	AC	01.05.1
3	BOND	14		01.05.1
4	-60 VOLTS	18	DC	01.05.1
5	SPARE (50 CYCLE NEUTRAL)	18	AC	01.05.1
6	SPARE	18		
7	SPARE	18		
8	208V ϕ 2 - CHAIN AND RIBBON MOTOR	18	AC	01.09.1
9	208V ϕ 3 - CHAIN AND RIBBON MOTOR	18	AC	01.09.1
10	SPARE	18		
11	208V ϕ 1	10	AC	01.09.1
12	208V ϕ 2 CARRIAGE MOTOR	10	AC	01.09.1
13	208V ϕ 3 CARRIAGE MOTOR	10	AC	01.09.1



PIN LAYOUT-POWER PLUG WIRING SIDE



POWER CABLE CROSS SECTION VIEW

POWER PLUG ASSIGNMENTS

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO.	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M				
	00.03.1	3-6-61	110678B				
DESIGN	10-16-59 MODEL 1403						
DETAIL	10-16-59						
CHECK	10-29-59 DRAW						
APPROV	11-11-59 CHECK						00.03.1

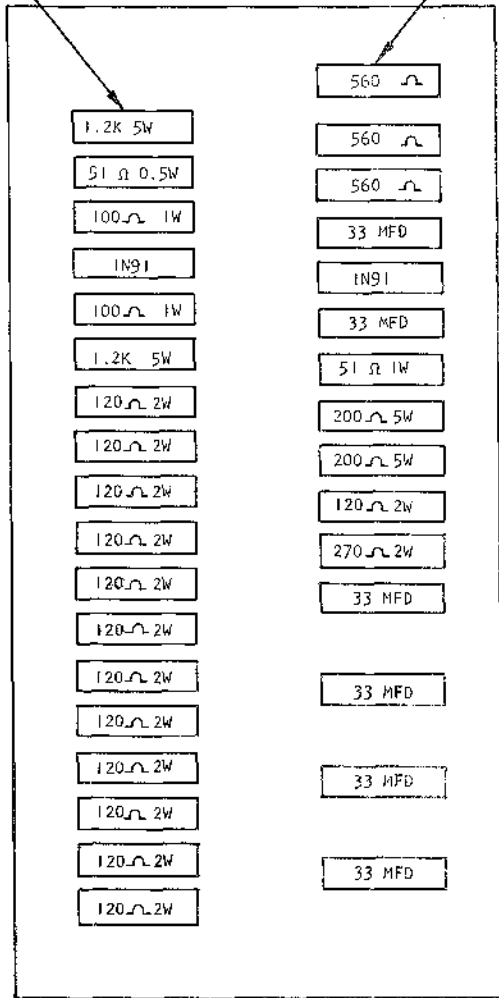
474204

FUSE CHART

NO	FUNCTION	TYPE	RATING	PART NUMBER
1	208V Ø 1	FNM	5A	107666
2	208V Ø 2	FNM	5A	107666
3	208V Ø 3	FNM	5A	107666
4	CHAIN AND RIBBON MOTOR	FNM	1.25A	252592
5	CHAIN RIBBON MOTOR	FNM	1.25A	252592
6	SPARE			
7	SPARE			
8	HIGH SPEED START MAGNET	AGC	1.5A	111256
9	HIGH SPEED STOP MAGNET	AGC	1.5A	111256
10	LOW SPEED START MAGNET	AGC	1.5A	111256
11	LOW SPEED STOP MAGNET	AGC	1.5A	111256
12	SPARE			
13	SPARE			
14	CHAIN MOTOR THERMAL	FNA	.1A	322779
15	HAMMER UNIT THERMAL	FNA	.1A	322779
16	SPARE			
17	SPARE			

RP-1

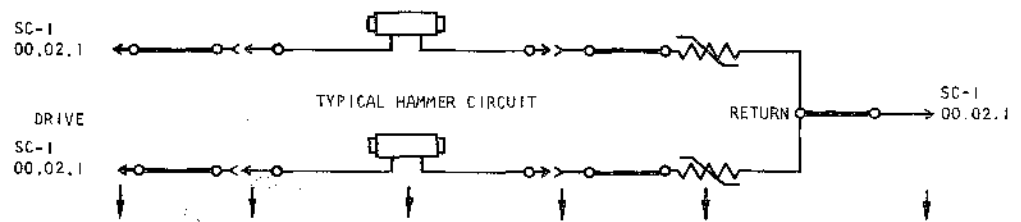
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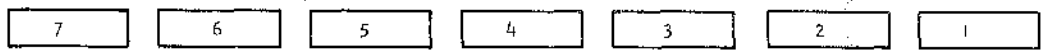
FUSE CHART AND RESISTOR PANEL ASSIGNMENTS

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M	10-5-60	110140A	X PRINT TO ENG. SPEC. NO.	
	00.05.1	1-20-60	108131A	6-15-61	111980C		
DESIGN	10-20-59 MODEL 1403	3-17-60	108432B	7-12-61	111306J		
DETAIL	10-20-59	5-13-60	108465A				
CHECK	10-29-59 DRAW	7-13-60	109248B				
APPROV	10-30-59 CHECK						00.05.1

474205



HAMMER DRIVE SC #	HAMMER UNIT CONNECTORS	HAMMER COIL NO	HAMMER UNIT CONNECTORS	THERMISTOR NUMBER	HAMMER RETURN SC #
1-1	OC-1-C	1	OC-1-F	1	1-2
1-3	OC-1-B	3	OC-1-E	3	
1-4	OC-1-A	5	OC-1-D	5	
1-6	OC-1-K	7	OC-1-N	7	1-5
1-7	OC-1-J	9	OC-1-M	9	
1-9	OC-1-H	11	OC-1-L	11	1-8
1-10	OC-1-S	13	OC-1-V	13	
1-12	OC-1-R	15	OC-1-U	15	1-11
1-13	OC-1-P	17	OC-1-T	17	
1-15	OC-2-C	19	OC-2-F	19	1-14
1-16	OC-2-B	21	OC-2-E	21	
1-18	OC-2-A	23	OC-2-D	23	1-17
1-19	OC-2-K	25	OC-2-N	25	
1-21	OC-2-J	27	OC-2-M	27	1-20
1-22	OC-2-H	29	OC-2-L	29	
1-24	OC-2-S	31	OC-2-V	31	1-23
1-25	OC-2-R	33	OC-2-U	33	
1-27	OC-2-P	35	OC-2-T	35	1-26
1-28	OC-2-X	37	OC-2-W	37	
1-30	OC-3-C	39	OC-3-F	39	1-29
1-31	OC-3-B	41	OC-3-E	41	
1-33	OC-3-A	43	OC-3-D	43	1-32
1-34	OC-3-K	45	OC-3-N	45	
1-36	OC-3-J	47	OC-3-M	47	1-35
1-37	OC-3-H	49	OC-3-L	49	
1-39	OC-3-S	51	OC-3-V	51	1-38
1-40	OC-3-R	53	OC-3-U	53	
1-42	OC-3-P	55	OC-3-T	55	1-41
1-43	OC-4-C	57	OC-4-F	57	
1-45	OC-4-B	59	OC-4-E	59	1-44
1-46	OC-4-A	61	OC-4-D	61	
1-48	OC-4-K	63	OC-4-N	63	1-47
1-49	OC-4-J	65	OC-4-M	65	
1-51	OC-4-H	67	OC-4-L	67	1-50



HAMMER UNIT CONNECTOR LAYOUT

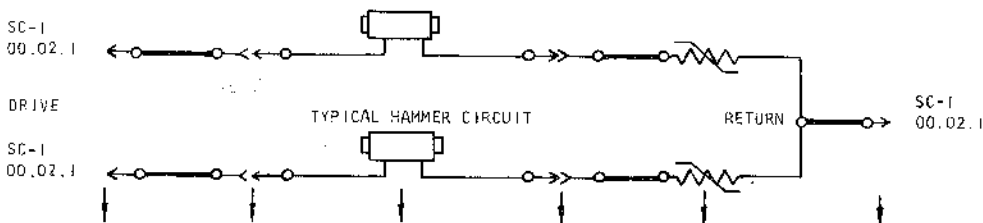
NOTE: OC = ODD CONNECTOR

ODD HAMMERS 1 TO 67

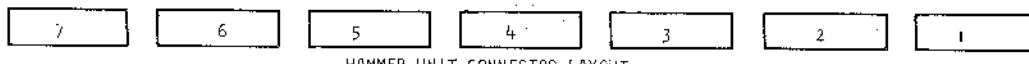
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM		11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	01.01.1
OH .01.1		3-6-61	1106788				
DESIGN	10-19-59	MODEL	1403				
DETAIL	10-19-59						
CHECK	10-27-59	DRAW					
APP	10-28-59	CHECK					

474205

474206



HAMMER DRIVE SC#	HAMMER UNIT CONNECTOR	HAMMER COIL NO	HAMMER UNIT CONNECTOR	THERMISTOR NUMBER	HAMMER RETURN SC#
1-52	OC-4-S	69	OC-4-V	69	1-53
1-54	OC-4-R	71	OC-4-U	71	
1-55	OC-4-P	73	OC-4-T	73	
1-57	OC-4-X	75	OC-4-W	75	1-56
1-58	OC-5-C	77	OC-5-T	77	
1-60	OC-5-E	79	OC-5-E	79	1-59
1-61	OC-5-A	81	OC-5-D	81	
1-63	OC-5-K	83	OC-5-N	83	1-62
1-64	OC-5-J	85	OC-5-M	85	
1-66	OC-5-H	87	OC-5-L	87	1-65
1-67	OC-5-S	89	OC-5-V	89	
1-69	OC-5-R	91	OC-5-U	91	1-68
1-70	OC-5-P	93	OC-5-T	93	
1-72	OC-6-C	95	OC-6-F	95	1-71
1-73	OC-6-B	97	OC-6-E	97	
1-75	OC-6-A	99	OC-6-D	99	1-74
1-76	OC-6-K	101	OC-6-N	101	
1-78	OC-6-J	103	OC-6-M	103	1-77
1-79	OC-6-H	105	OC-6-L	105	
1-81	OC-6-S	107	OC-6-V	107	1-80
1-82	OC-6-R	109	OC-6-U	109	
1-84	OC-6-P	111	OC-6-T	111	1-83
1-85	OC-6-X	113	OC-6-W	113	
1-87	OC-7-C	115	OC-7-F	115	1-86
1-88	OC-7-B	117	OC-7-E	117	
1-90	OC-7-A	119	OC-7-D	119	1-89
1-91	OC-7-K	121	OC-7-N	121	
1-93	OC-7-J	123	OC-7-M	123	1-92
1-94	OC-7-H	125	OC-7-L	125	
1-96	OC-7-S	127	OC-7-V	127	1-95
1-97	OC-7-R	129	OC-7-U	129	
1-99	OC-7-P	131	OC-7-T	131	1-98



HAMMER UNIT CONNECTOR LAYOUT

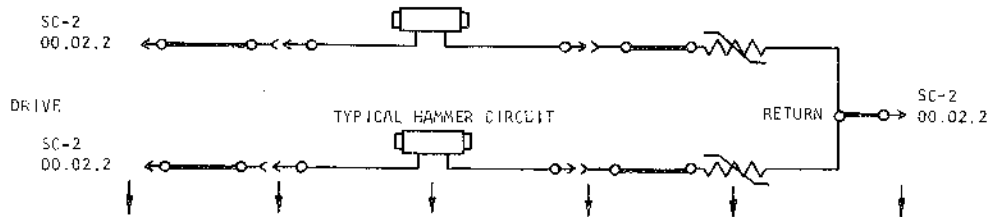
NOTE: OC = ODD CONNECTOR

ODD HAMMERS 69 TO 131

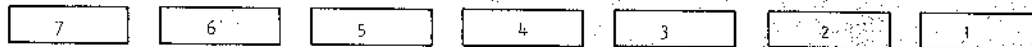
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME: SYSTEM DIAGRAM		11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	01.02.1
01.02.1		3-6-61	110678B				
DESIGNER	10-19-59	MODEL	1403				
DRAWN	10-19-59						
CHECKED	10-28-59	DRAW					
APPROVED	10-30-59	CHECK					

474206

474207



HAMMER DRIVE SC#	HAMMER UNIT CONNECTOR	HAMMER COIL NO	HAMMER UNIT CONNECTOR	THERMISTOR NUMBER	HAMMER RETURN SC#
2-1	EC-1-C	2	EC-1-F	2	2-2
2-3	EC-1-P	4	EC-1-E	4	
2-4	EC-1-A	6	EC-1-D	6	2-5
2-6	EC-1-K	8	EC-1-N	8	
2-7	EC-1-J	10	EC-1-M	10	2-8
2-9	EC-1-H	12	EC-1-L	12	
2-10	EC-1-S	14	EC-1-V	14	2-11
2-12	EC-1-R	16	EC-1-U	16	
2-13	EC-1-P	18	EC-1-T	18	2-14
2-15	EC-2-C	20	EC-2-F	20	
2-16	EC-2-B	22	EC-2-E	22	2-17
2-18	EC-2-A	24	EC-2-D	24	
2-19	EC-2-K	26	EC-2-N	26	2-20
2-21	EC-2-J	28	EC-2-M	28	
2-22	EC-2-T	30	EC-2-L	30	2-23
2-24	EC-2-S	32	EC-2-Y	32	
2-25	EC-2-R	34	EC-2-U	34	2-26
2-27	EC-2-P	36	EC-2-V	36	
2-28	EC-2-X	38	EC-2-W	38	2-29
2-30	EC-3-C	40	EC-3-F	40	
2-31	EC-3-T	42	EC-3-E	42	2-32
2-33	EC-3-A	44	EC-3-D	44	
2-34	EC-3-K	46	EC-3-N	46	2-35
2-36	EC-3-J	48	EC-3-M	48	
2-37	EC-3-H	50	EC-3-L	50	2-38
2-39	EC-3-S	52	EC-3-V	52	
2-40	EC-3-T	54	EC-3-U	54	2-41
2-42	EC-3-P	56	EC-3-W	56	
2-43	EC-4-C	58	EC-4-F	58	2-44
2-45	EC-4-B	60	EC-4-E	60	
2-46	EC-4-A	62	EC-4-D	62	2-47
2-48	EC-4-K	64	EC-4-N	64	
2-49	EC-4-J	66	EC-4-M	66	2-50
2-51	EC-4-H	68	EC-4-L	68	

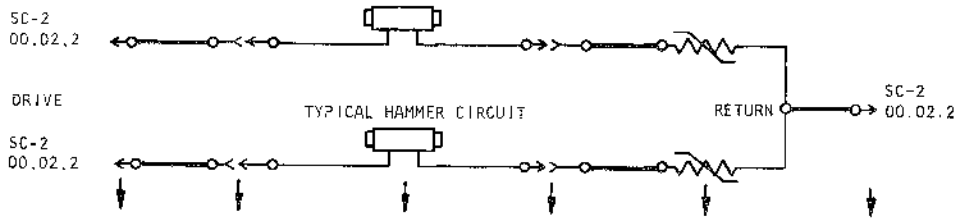


HAMMER UNIT CONNECTOR LAYOUT

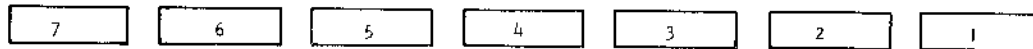
NOTE: EC = EVEN CONNECTOR
EC-1-X & EC-1-Y =
HAMMER UNIT THERMAL ELEMENT

EVEN HAMMERS 2 TO 68

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM		11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	474207
DI. 03.1		3-6-61	110678B				
DESIGN	10-20-59 MODEL 14C3						
CHECK	10-20-59						
DRAW	10-20-59						
APPROV	10-20-59						
CHECK							01.03.1



HAMMER DRIVE SC#	HAMMER UNIT CONNECTOR	HAMMER COIL NO	HAMMER UNIT CONNECTOR	THERMISTOR NUMBER	HAMMER RETURN SC#
2-52	EC-4-S	70	EC-4-V	70	2-53
2-54	EC-4-R	72	EC-4-U	72	
2-55	EC-4-P	74	EC-4-T	74	
2-57	EC-4-X	76	EC-4-W	76	2-56
2-5	EC-5-C	78	EC-5-F	78	2-59
2-60	EC-5-A	80	EC-5-E	80	
2-61	EC-5-A	82	EC-5-D	82	
2-63	EC-5-K	84	EC-5-J	84	2-62
2-64	EC-5-J	86	EC-5-M	86	2-65
2-66	EC-5-H	88	EC-5-L	88	
2-67	EC-5-S	90	EC-5-V	90	
2-69	EC-5-R	92	EC-5-U	92	2-68
2-70	EC-5-P	94	EC-5-T	94	2-71
2-72	EC-6-C	96	EC-6-F	96	
2-73	EC-6-B	98	EC-6-E	98	
2-75	EC-6-A	100	EC-6-D	100	2-74
2-76	EC-6-K	102	EC-6-J	102	2-77
2-78	EC-6-J	104	EC-6-M	104	
2-79	EC-6-F	106	EC-6-L	106	
2-81	EC-6-S	108	EC-6-V	108	2-80
2-82	EC-6-R	110	EC-6-U	110	2-83
2-84	EC-6-P	112	EC-6-T	112	
2-85	EC-6-X	114	EC-6-W	114	
2-87	EC-7-C	116	EC-7-F	116	2-86
2-88	EC-7-S	118	EC-7-E	118	2-89
2-90	EC-7-A	120	EC-7-D	120	
2-91	EC-7-K	122	EC-7-N	122	
2-93	EC-7-J	124	EC-7-M	124	2-92
2-94	EC-7-H	126	EC-7-L	126	2-95
2-96	EC-7-S	128	EC-7-V	128	
2-97	EC-7-R	130	EC-7-U	130	
2-99	EC-7-P	132	EC-7-T	132	2-98



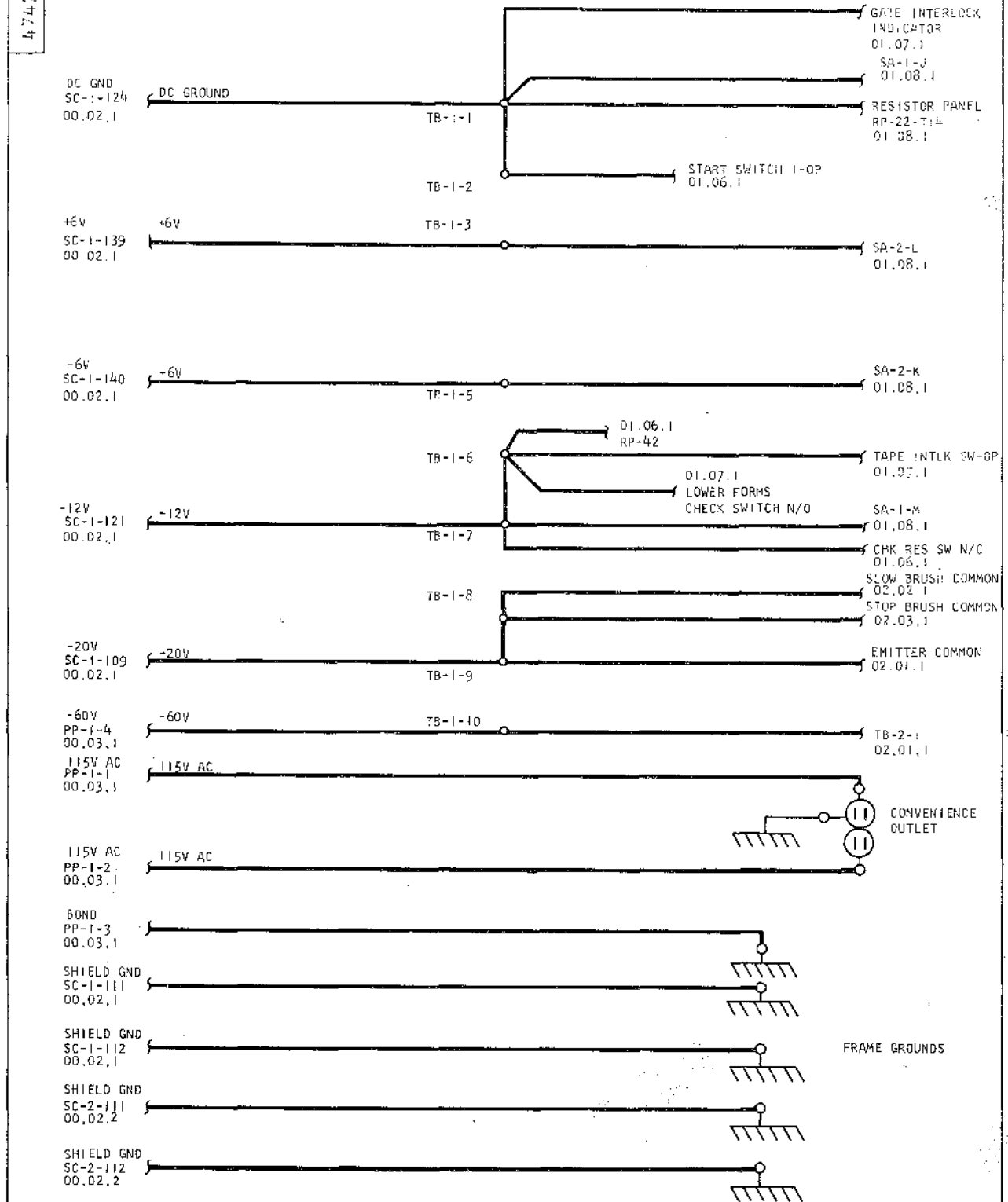
HAMMER UNIT CONNECTOR LAYOUT

NOTE: EC = EVEN CONNECTOR

EVEN HAMMERS 70 TO 132

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	474205
	01.04.1	3-6-61	110678B				
DESIGN	10-20-59 MODEL 1403						
DETAIL	10-20-59						
CHECK	10-29-59 DRAW						01.04.1
APPROV	10-29-59 CHECK						

474209



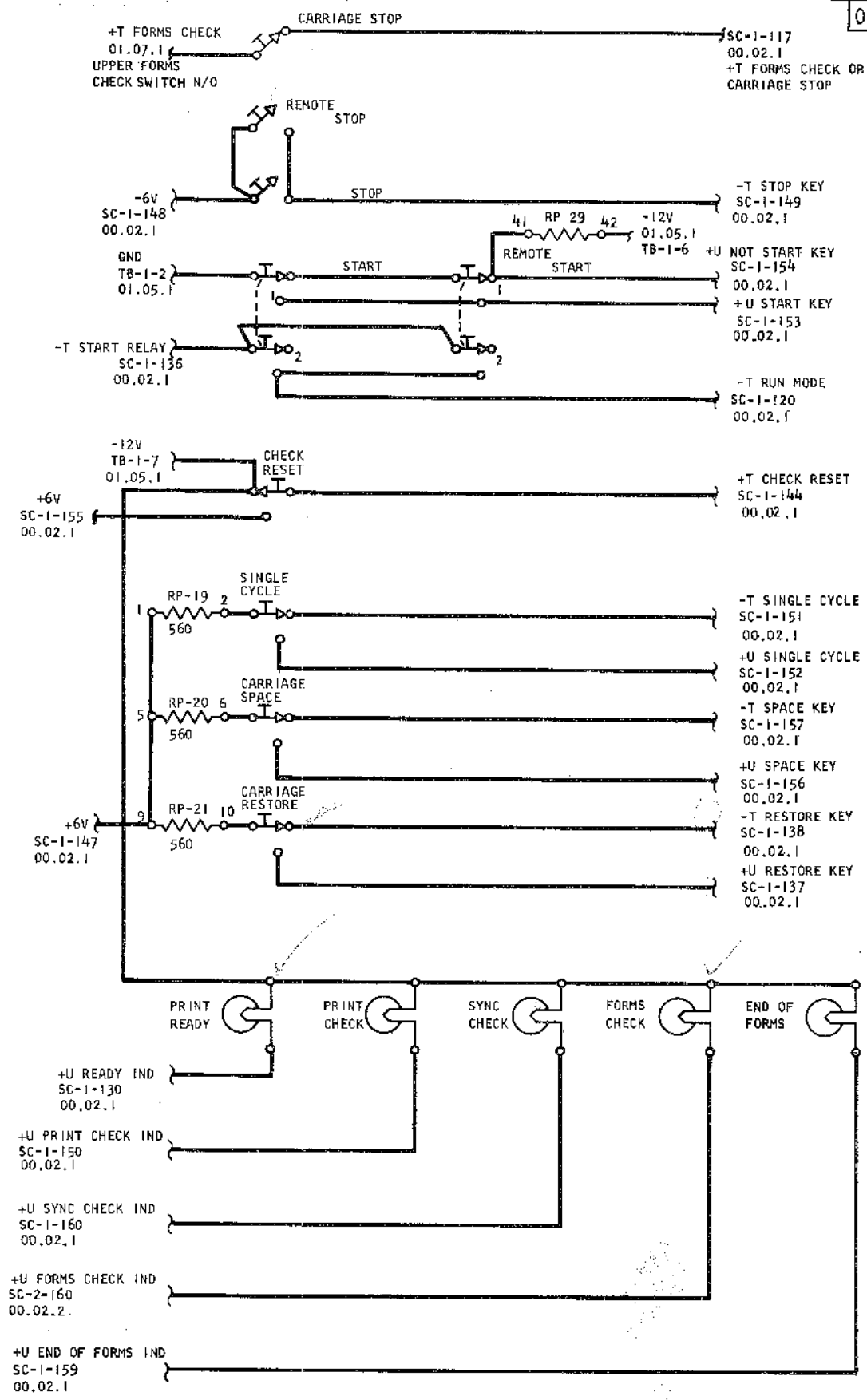
VOLTAGE DISTRIBUTION

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M	10-5-60	110149A	X PRINT TO ENG. SPEC. NO.	01.05.1
	01.05.1	1-20-60	108131A	6-15-61	111980C		
DESIGN	10-13-59	3-17-60	108432B	7-12-61	111306J		
DETAIL	10-13-59	5-13-60	108465A				
CHECK	10-28-59	9-20-60	109973B				
APPROV	10-28-59	CHECK					

474209

474210

01.06.1

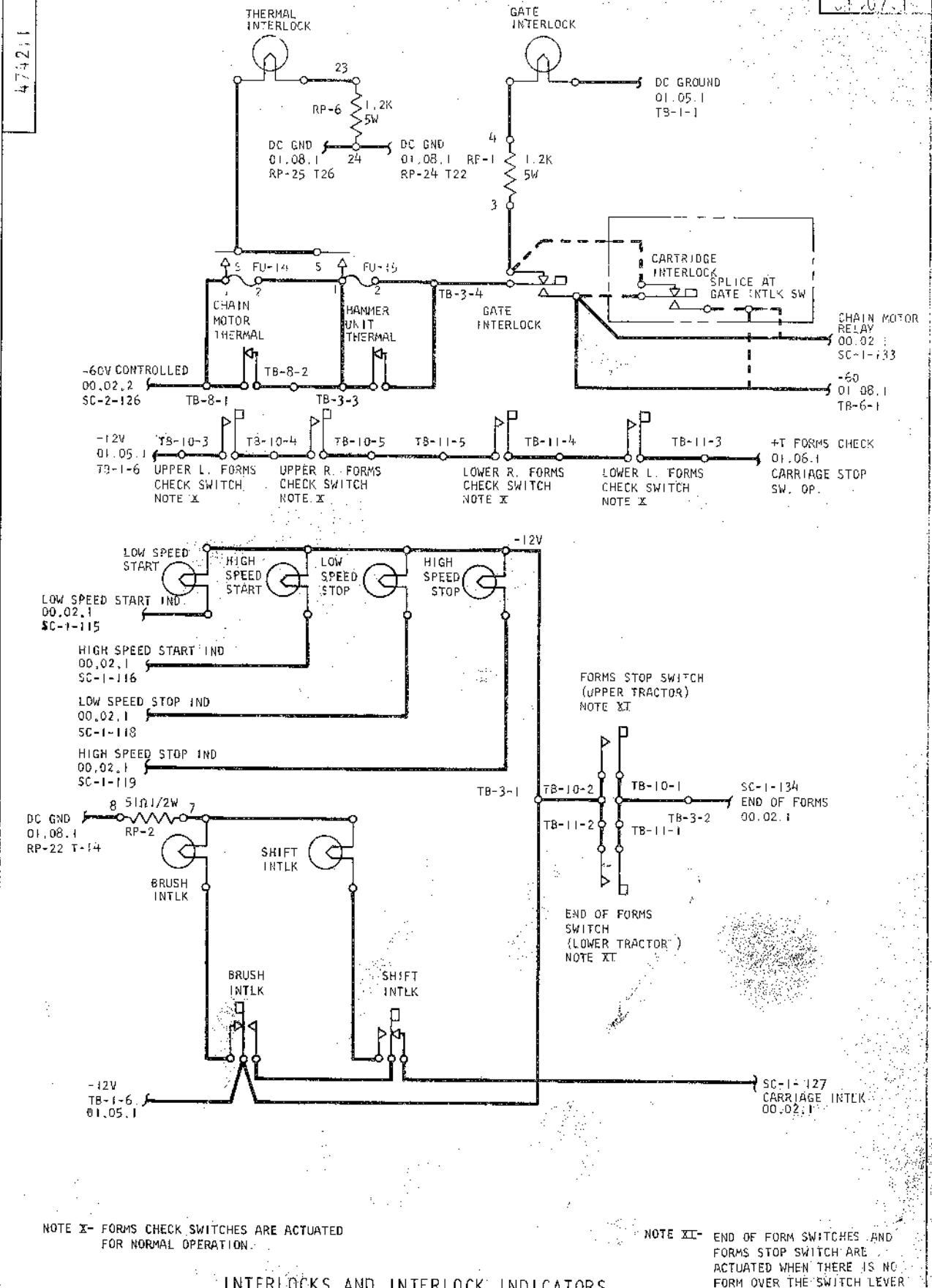


OPERATORS CONTROLS AND INDICATORS

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	11/13/59	106002-M			NOTE X PRINT TO ENG. SPEC. NO.	474210
DESIGN	01.06.1	1-20-60	108131A				
DETAIL	10-19-59 MODEL 1403	3-17-60	108432B				
CHECK	10-19-59	5-13-60	108465A				
APPROV	10-27-59 DRAW	10-5-60	110140A				
	10-27-59 CHECK						
							01.06.1

4742.1

01.07.1



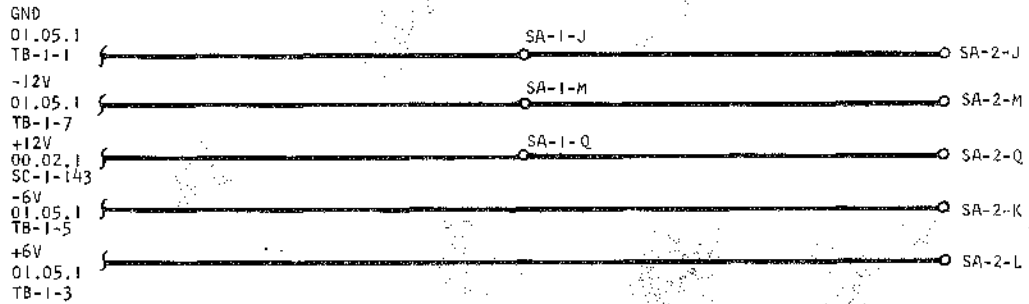
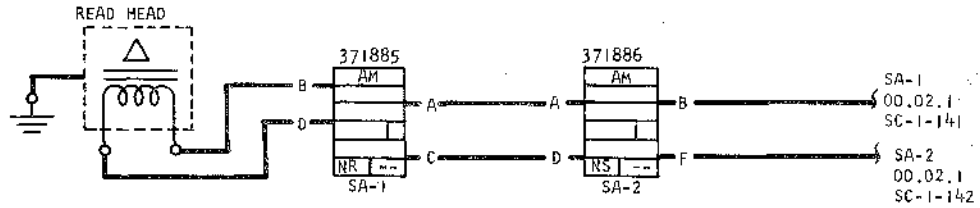
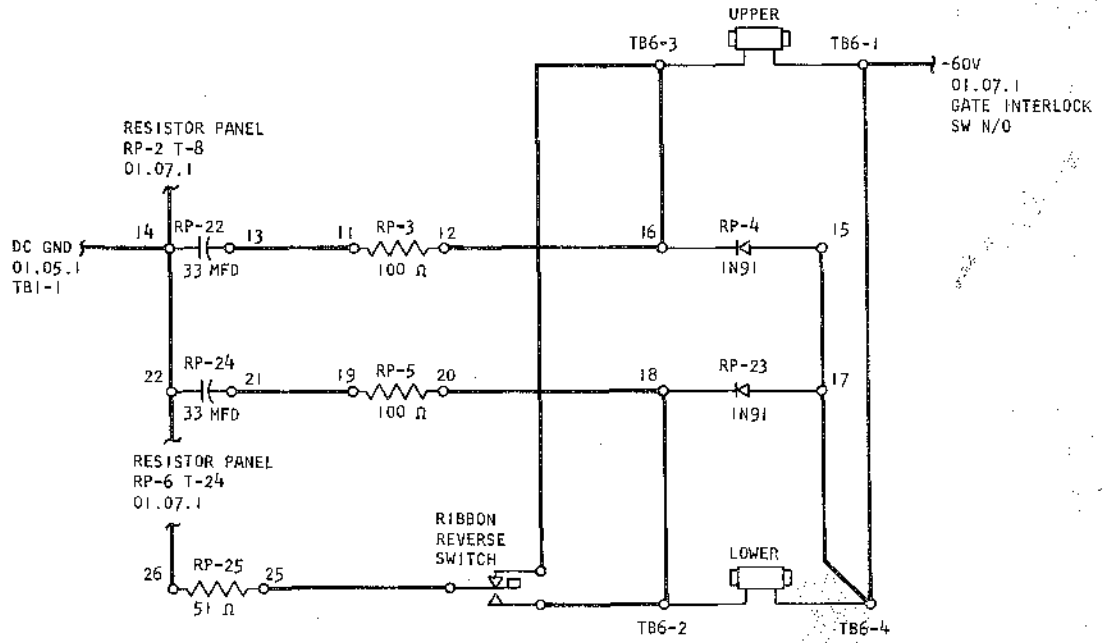
NOTE X- FORMS CHECK SWITCHES ARE ACTUATED FOR NORMAL OPERATION.

NOTE XI- END OF FORM SWITCHES AND FORMS STOP SWITCH ARE ACTUATED WHEN THERE IS NO FORM OVER THE SWITCH LEVER

INTERLOCKS AND INTERLOCK INDICATORS

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM		11/13/59	106002-M	10-5-60	110140A	X PRINT TO ENG. SPEC. NO.	4742.1
01.07.1		1-20-60	108131-A	3-6-61	110678B		
DESIGNER	10-19-59 MODEL 1403	3-17-60	108432B	6-15-61	111980C		
DETAIL		7-13-60	108448B	7-12-61	111306J		
CHECK	10-29-59 DRAW	9-20-60	109973B				
APPROV	10-30-59 CHECK						
							01.07.1

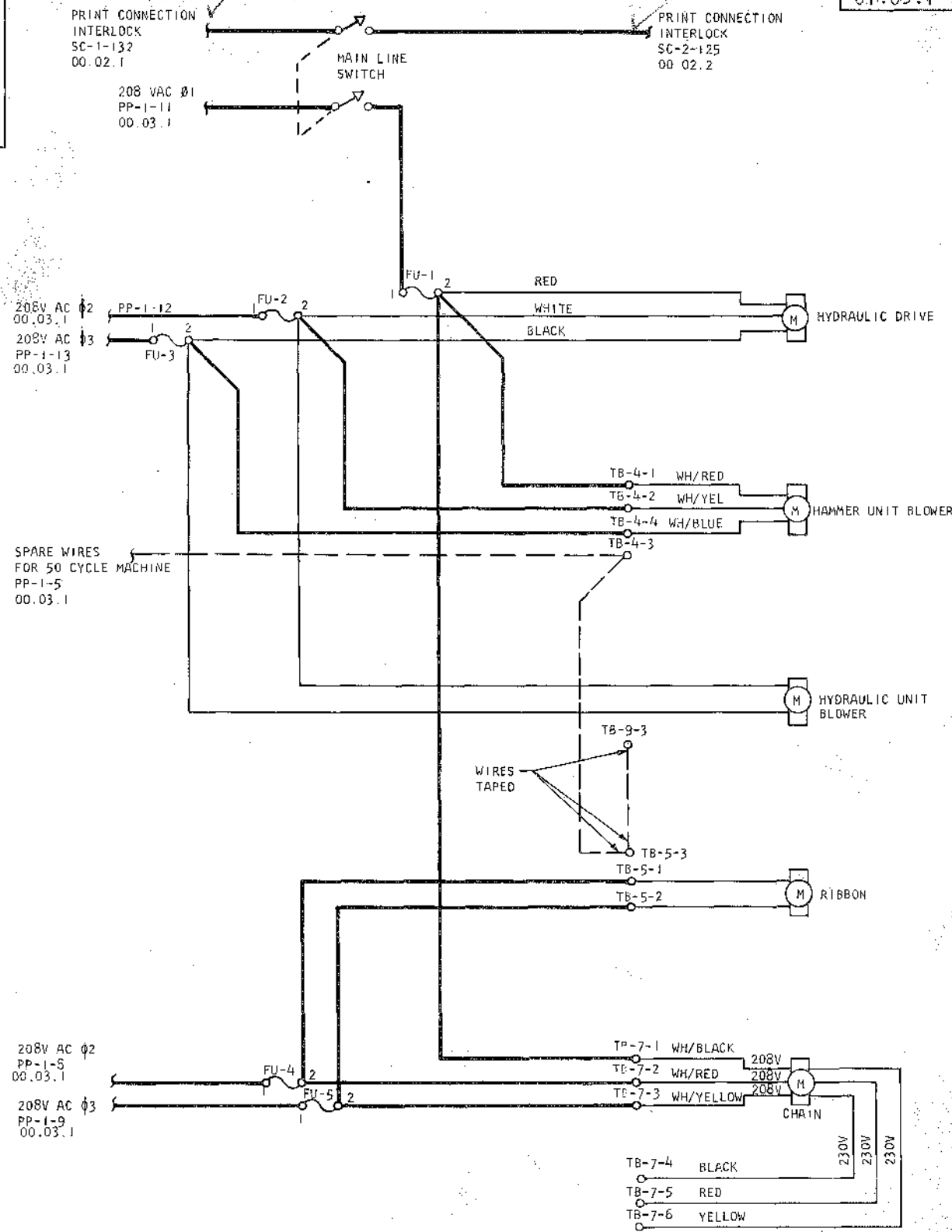
474212



RIBBON CONTROL AND SENSE AMPLIFIER

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	474212
DESIGN	01.08.1	5-13-60	108465A				
DETAIL	10-13-59 MODEL 1403	7-13-60	109248B				
CHECK	10-29-59 DRAW	10-5-60	110140A				
APPROV	10-30-59 CHECK	6-15-61	111980C				
							01.08.1

474213



MOTOR CONTROL-208, 230 VOLT - 60 CYCLE

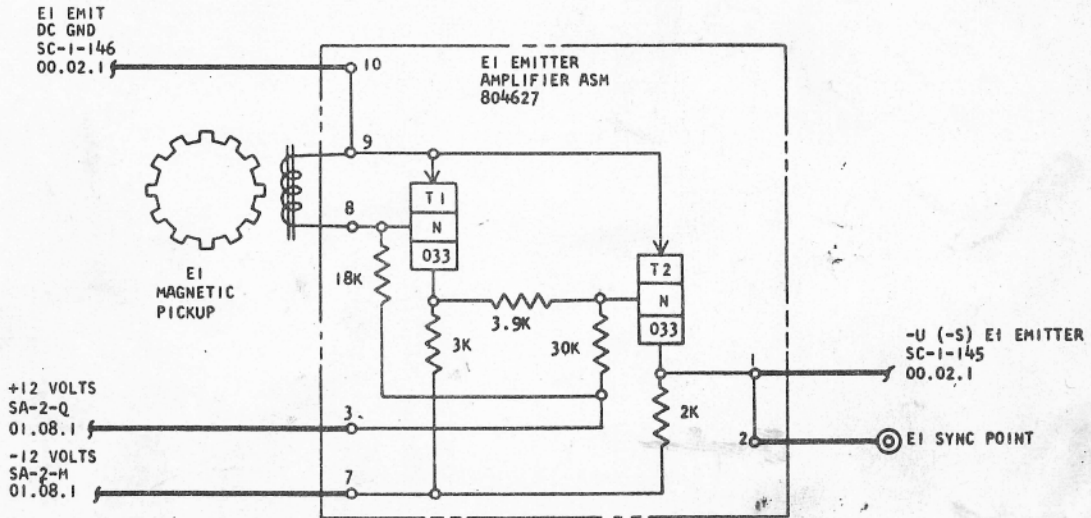
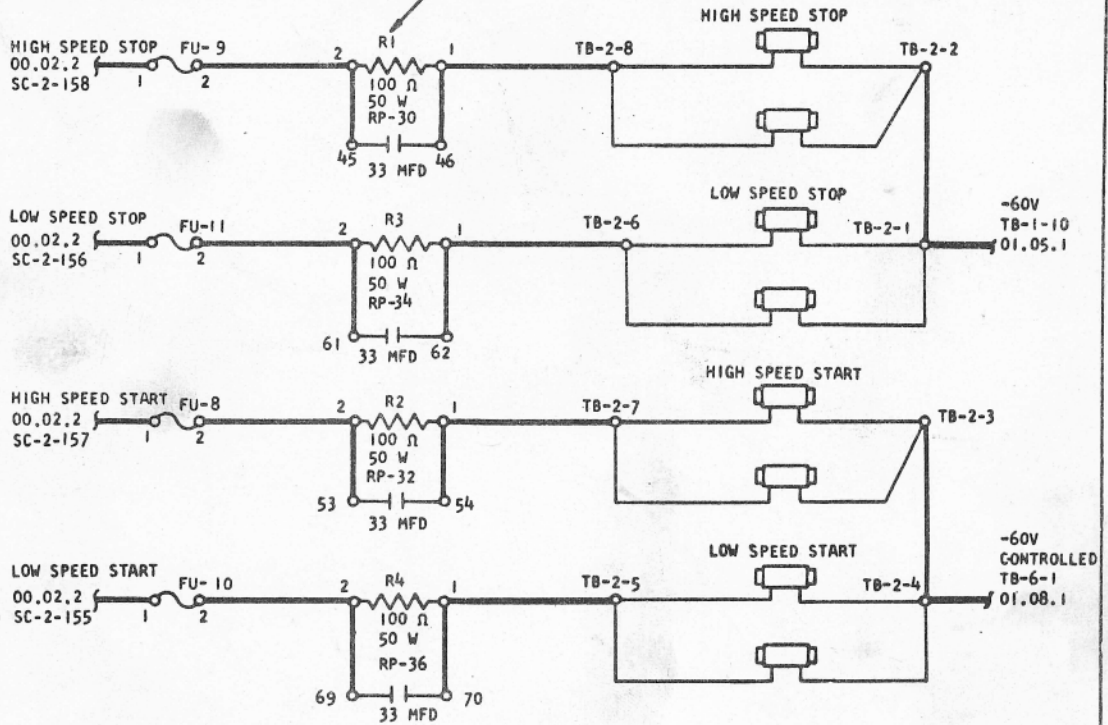
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M	3-6-61	110678B	X PRINT TO ENG. SPEC. NO.	474213
	01.09.1	3-17-60	108432B				
DESIGN	10-13-59 MODEL 1403	7-13-60	109248B				
DETAIL	10-13-59	9-20-60	109973B				
CHECK	10-13-59	10-5-60	110140A				
APPROV	10-13-59						
							01.09.1

474214

Mag. Emitter Parts are attached to 1403 Parts catalog sheet 1403-9

02.01.1

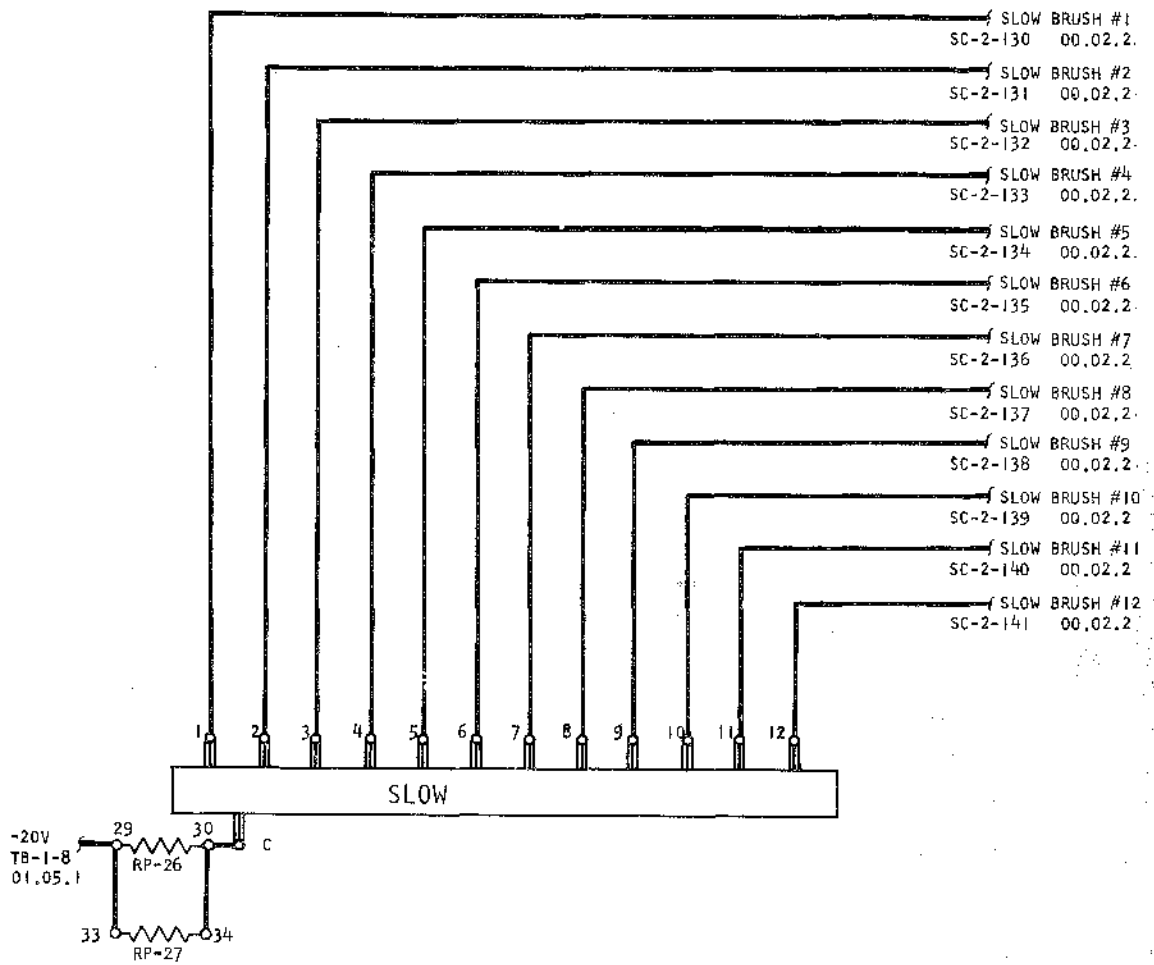
FOUR CARRIAGE RESISTORS LOCATED ON HEAT SINK AT REAR OF HYDRAULIC UNIT, NUMBERED 1-4, TOP TO BOTTOM.



NOTE
X NOTATIONS IN PARENTHESIS APPLY WHEN PRINTER IS USED WITH 1410 SYSTEM.

CARRIAGE CONTROL AND EMITTER

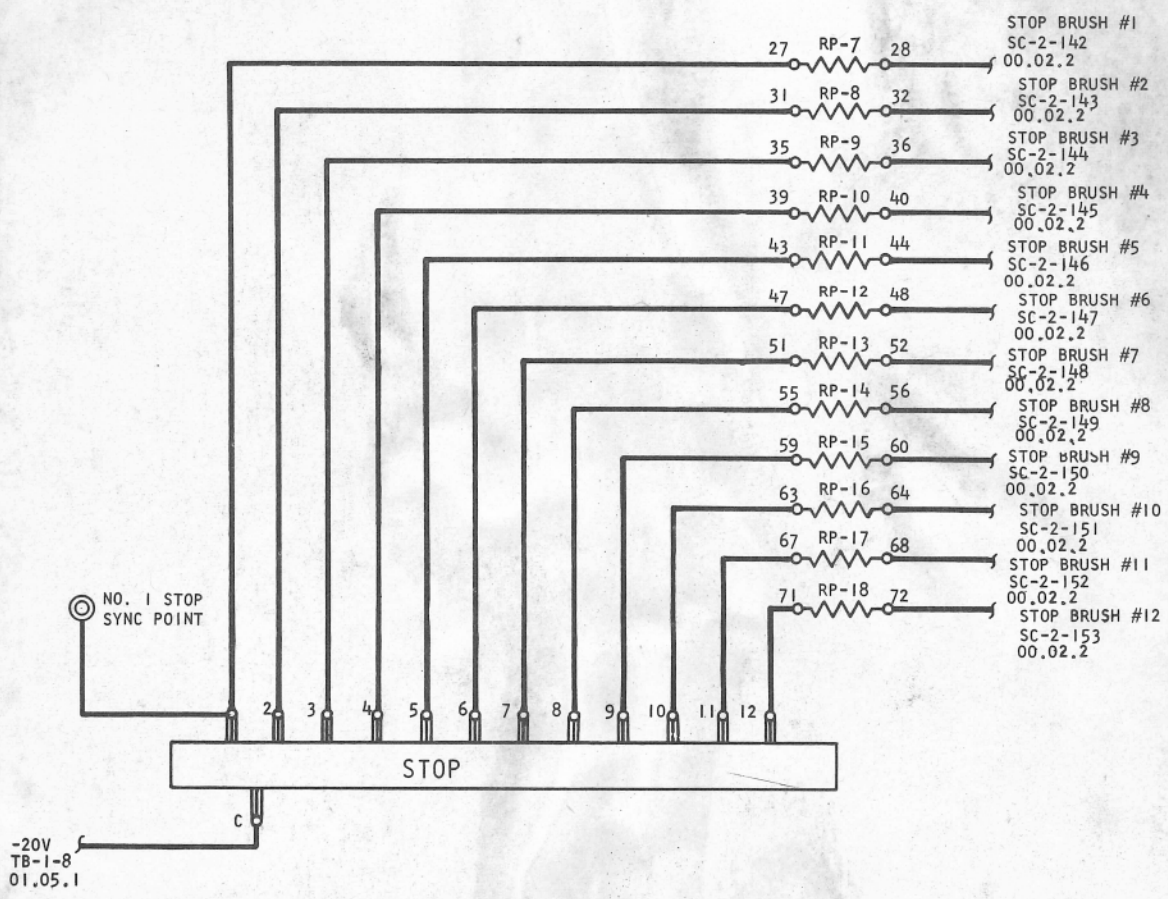
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M	11-30-62	116387	X PRINT TO ENG. SPEC. NO.	474214
	02.01.1	1-20-60	108131-A	1-10-63	114845F		
DESIGN	10-13-59 MODEL 1403	3-17-60	108432B				
DETAILS	10-13-59	7-13-60	109248-B				
CHECK	10-29-59 DRAW	2-9-62	112312B				
APPROV	10-30-59 CHECK					02.01.1	



SLOW BRUSHES

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	02.02.1
	02.02.1	3-17-60	108432B				
DESIGN	10-13-59 MODEL 1403						
DETAIL	10-13-59						
CHECK	10-28-59 DRAW						
APPROV	CHECK						

474216



STOP BRUSHES

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	11/13/59	106002-M			X PRINT TO ENG. SPEC. NO.	474216
	02.03.1	7-13-60	109248B				
DESIGN	10-13-59 MODEL 1403						
DETAIL	10-13-59						
CHECK	10-29-59 DRAW						
APPROV	10-29-59 CHECK					02.03.1	