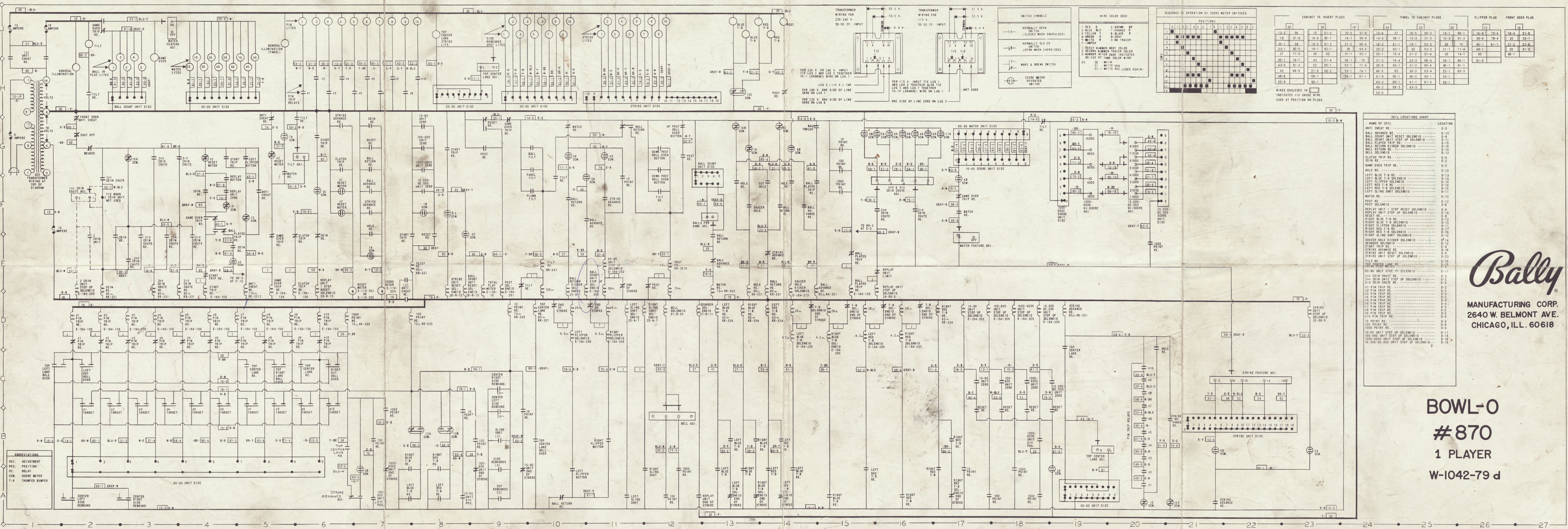




SWITCH SYMBOLS

NORMALLY OPEN SWITCH (CLOSED WHEN ENERGIZED)

NORMALLY CLOSED SWITCH (OPEN WHEN ENERGIZED)

MAKE & BREAK SWITCH

SCORE MOTOR OPERATED SWITCH

WIRE COLOR CODE

1-RED R
2-BLUE BLU
3-YELLOW Y
4-GREEN G
5-WHITE W
6-BROWN BR
7-ORANGE O
8-BLACK B
9-GRAY GR
0-NO TRACER

1-BUSY NUMBER-BODY COLOR
2-SECOND NUMBER-TRACER COLOR
3-NUMBER AFTER DASH INDICATES RE-USE OF SAME COLOR WIRE

EX. 50-WHITE
51-WHITE RED
51-1-WHITE RED (USED AGAIN)

SEQUENCE OF OPERATION OF SCORE MOTOR SWITCHES

POSITIONS	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

CABINET TO INSERT PLUGS

20	18	16	14	12	10	8	6	4	2
13-2 98	10 80-1	10-5 57-4	13-4 57	10-5 50-3	14-1 80-1	14-6 80-1	13-3 51-3	15-3 81-2	14-8 75-4
18 57-8	14-6 80-1	14-1 80-1	13-4 57	10-5 50-3	14-1 80-1	14-6 80-1	13-3 51-3	15-3 81-2	14-8 75-4
20-1 68	12-3 81-2	21-2 80-4	18-2 81-1	20 53-3	31-1 71-4	30 70	22 52-3	30 70	27-2 87-8
23-1 80-5	18-1 83-1	30 83-4	23-2 83-1	20 53-3	31-1 71-4	30 70	22 52-3	30 70	27-2 87-8
27 71-6	38 80	31-1 85-1	25-1 75-4	21-2 57-4	36 74-1	38 80	31-1 85-1	25-1 75-4	36 74-1
40-1 74-7	43 81-4	38-1 70	31-2 78-4	23-3 58-4	38-1 80-1	40-1 81-1	43-2 85-1	41-1 81-2	48-1
43-8 81-3	53 85-1	52-1 71-4	38-6 83-1	31-3 80-4	40-1 81-1	43-2 85-1	41-1 81-2	48-1	48-1
45 88-6	57-6 88-3	53-1 74-1	40-5 85	38-3 83-4	52-1 85-3	53-1 85-1	41-1 81-2	48-1	48-1
48-8	58-1	58-1	41-8 80-1	40-3 85-1	53-1	53-1	41-1 81-2	48-1	48-1
50-8	60-1	58-1	43-3	43-3	43-3	43-3	43-3	43-3	43-3

PANEL TO CABINET PLUGS

20	18	16	14	12	10	8	6	4	2
13-2 98	10 80-1	10-5 57-4	13-4 57	10-5 50-3	14-1 80-1	14-6 80-1	13-3 51-3	15-3 81-2	14-8 75-4
18 57-8	14-6 80-1	14-1 80-1	13-4 57	10-5 50-3	14-1 80-1	14-6 80-1	13-3 51-3	15-3 81-2	14-8 75-4
20-1 68	12-3 81-2	21-2 80-4	18-2 81-1	20 53-3	31-1 71-4	30 70	22 52-3	30 70	27-2 87-8
23-1 80-5	18-1 83-1	30 83-4	23-2 83-1	20 53-3	31-1 71-4	30 70	22 52-3	30 70	27-2 87-8
27 71-6	38 80	31-1 85-1	25-1 75-4	21-2 57-4	36 74-1	38 80	31-1 85-1	25-1 75-4	36 74-1
40-1 74-7	43 81-4	38-1 70	31-2 78-4	23-3 58-4	38-1 80-1	40-1 81-1	43-2 85-1	41-1 81-2	48-1
43-8 81-3	53 85-1	52-1 71-4	38-6 83-1	31-3 80-4	40-1 81-1	43-2 85-1	41-1 81-2	48-1	48-1
45 88-6	57-6 88-3	53-1 74-1	40-5 85	38-3 83-4	52-1 85-3	53-1 85-1	41-1 81-2	48-1	48-1
48-8	58-1	58-1	41-8 80-1	40-3 85-1	53-1	53-1	41-1 81-2	48-1	48-1
50-8	60-1	58-1	43-3	43-3	43-3	43-3	43-3	43-3	43-3

FLIPPER PLUG

12	10	8	6	4	2
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
14-8 75-4	10-4 91-8	20 52-7	30 70	27-2 87-8	48-1

FRONT DOOR PLUG

10	8	6	4	2
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1
10-4 91-8	20 52-7	30 70	27-2 87-8	48-1

WIRES ENCLOSED IN

INDICATES #16 GAUGE WIRE USED AT POSITION ON PLUGS.

COIL LOCATIONS CHART

NAME OF COIL	LOCATION
ANTI CHEAT RE.	E-5
BALL ADVANCE RE.	E-15
BALL COUNT UNIT RESET SOLENOID	E-11
BALL COUNT UNIT STEP UP SOLENOID	E-15
BALL PLAYED TRIP RE.	E-15
BALL RETURN KICKER SOLENOID	E-10
BALL RETURN RE.	E-14
BELL SOLENOID	D-12
CLUTCH TRIP RE.	E-5
COIN RE.	E-2
GAME OVER TRIP RE.	E-5
HOLE RE.	E-13
LEFT BLUE T-B RE.	D-13
LEFT BLUE T-B SOLENOID	D-14
LEFT FLIPPER SOLENOID	D-14
LEFT RED T-B RE.	D-14
LEFT RED T-B SOLENOID	D-15
LEFT SLING SHOT SOLENOID	D-11
RIGHT BLUE T-B RE.	D-13
RIGHT BLUE T-B SOLENOID	D-13
RIGHT FLIPPER SOLENOID	D-11
RIGHT RED T-B RE.	D-17
RIGHT RED T-B SOLENOID	D-12
RIGHT SLING SHOT SOLENOID	E-14
SAUCER HOLE KICKER SOLENOID	E-14
SAUNDER SOLENOID	D-18
START TRIP RE.	D-18
STRIKE ADVANCE RE.	D-18
STRIKE UNIT RESET SOLENOID	D-23
STRIKE UNIT STEP UP SOLENOID	D-23
TILT RE.	E-10
TOTAL PLAY RE.	E-10
60-90 UNIT STEP UP SOLENOID	E-3
200 COIN CHUTE RE.	E-3
200 COIN UNIT STEP UP SOLENOID	E-2
300 COIN CHUTE RE.	E-2
#1 PIN TRIP RE.	D-2
#2 PIN TRIP RE.	D-2
#3 PIN TRIP RE.	D-3
#4 PIN TRIP RE.	D-3
#5 PIN TRIP RE.	D-4
#6 PIN TRIP RE.	D-5
#7 PIN TRIP RE.	D-5
#8 PIN TRIP RE.	D-6
#9 PIN TRIP RE.	D-6
#10 PIN TRIP RE.	D-6
100 POINT RE.	D-8
1000 POINT RE.	D-8
100-900 UNIT STEP UP SOLENOID	D-17
100-900 UNIT STEP UP SOLENOID	D-18
1000-9000 UNIT STEP UP SOLENOID	D-18
10,000-90,000 UNIT STEP UP SOLENOID	D-18

Bally

MANUFACTURING CORP.
2640 W. BELMONT AVE.
CHICAGO, ILL. 60618

**BOWL-O
#870
1 PLAYER
W-1042-79 d**