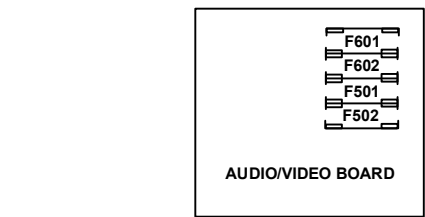


SCARED STIFF (50048)

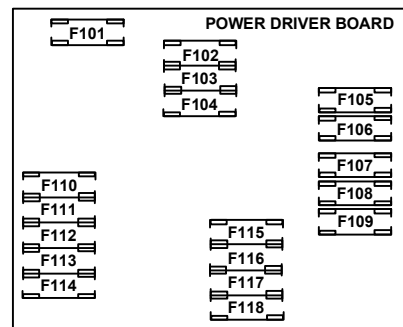
FUSE LIST

| POWER DRIVER BOARD | | |
|--------------------|----------------------|--------------|
| F101 | Regulated 12V | T0.63A, 250V |
| F102 | Solenoids #9 to #16 | T4.0A, 250V |
| F103 | Solenoids #1 to #8 | T4.0A, 250V |
| F104 | Solenoids #25 to #28 | T4.0A, 250V |
| F105 | +5V Logic | T4.0A, 250V |
| F106 | +18V Lamp Matrix | T5.0A, 250V |
| F107 | Flasher Secondary | T4.0A, 250V |
| F108 | Solenoid Secondary | T6.3A, 250V |
| F109 | Unregulated 12V | T4.0A, 250V |
| F110 | G.I. #5 White-Violet | T4.0A, 250V |
| F111 | G.I. #4 White-Green | T4.0A, 250V |
| F112 | G.I. #3 White-Yellow | T4.0A, 250V |
| F113 | G.I. #2 White-Orange | T4.0A, 250V |
| F114 | G.I. #1 White-Brown | T4.0A, 250V |
| F115 | +50V Flippers | T4.0A, 250V |
| F116 | +50V Flippers | T4.0A, 250V |
| F117 | +50V Flippers | T4.0A, 250V |
| F118 | +50V Flippers | T4.0A, 250V |



CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE OF FUSE HAVING THE SAME ELECTRICAL RATINGS.

| AUDIO/VIDEO BOARD | | |
|-------------------|---------------|--------------|
| F501 | -25V | T2.5A, 250V |
| F502 | +25V | T2.5A, 250V |
| F601 | +62V | T0.25A, 250V |
| F602 | -113V & -125V | T0.25A, 250V |



| LINE FILTER | |
|-------------|-------------|
| Foreign | T4.0A, 250V |
| Domestic | T5.0A, 250V |

SOLENOID/FLASHER TABLE

| Sol No. | Function | Solenoid Type | Voltage Connections | | | Drive Xistor | Drive Connections | | | Drive Wire Color | Solenoid/Flashlamp | |
|---------|------------------------|---------------|---------------------|---------|---------|--------------|-------------------|---------|---------|------------------|--------------------|-----------|
| | | | Playfield | Backbox | Cabinet | | Playfield | Backbox | Cabinet | | Playfield | Backbox |
| 01 | AUTO PLUNGER | High Power | J133-2 | | | Q72 | J116-1 | | | VIO-BRN | AE-23-800 | |
| 02 | LOOP GATE | High Power | J133-2 | | | Q68 | J116-2 | | | VIO-RED | A-14406 | |
| 03 | RIGHT POPPER | High Power | J133-2 | | | Q71 | J116-4 | | | VIO-ORG | AE-24-900 | |
| 04 | COFFING POPPER | High Power | J133-2 | | | Q67 | J116-5 | | | VIO-YEL | AE-23-800 | |
| 05 | COFFIN DOOR | High Power | J133-2 | | | Q70 | J116-6 | | | VIO-GRN | AE-26-1500 | |
| 06 | CRATE KICKOUT | High Power | J133-2 | | | Q66 | J116-7 | | | VIO-BLU | AE-24-900 | |
| 07 | *KNOCKER | High Power | | J133-2 | | Q69 | | J116-8 | | VIO-BLK | | AE-23-800 |
| 08 | CRATE POST POWER | High Power | J133-2 | | | Q65 | J116-9 | | | VIO-GRY | FL-11629 | |
| 09 | TROUGH EJECT | Low Power | J133-3 | | | Q44 | J113-1 | | | BRN-BLK | AE-26-1500 | |
| 10 | LEFT SLINGSHOT | Low Power | J133-3 | | | Q48 | J113-3 | | | BRN-RED | AE-25-1000 | |
| 11 | RIGHT SLINGSHOT | Low Power | J133-3 | | | Q43 | J113-4 | | | BRN-ORG | AE-25-1000 | |
| 12 | CENTER JET BUMPER | Low Power | J133-3 | | | Q47 | J113-5 | | | BRN-YEL | AE-26-1200 | |
| 13 | UPPER JET BUMPER | Low Power | J133-3 | | | Q42 | J113-6 | | | BRN-GRN | AE-26-1200 | |
| 14 | LOWER JET BUMPER | Low Power | J133-3 | | | Q46 | J113-7 | | | BRN-BLU | AE-26-1200 | |
| 15 | UPPER SLINGSHOT | Low Power | J133-3 | | | Q41 | J113-8 | | | BRN-VIO | AE-26-1200 | |
| 16 | CRATE POST HOLD | Low Power | J133-2 | | | Q45 | J114-9 | | | BRN-GRY | FL-11629 | |
| 17 | TOP JET FLASHER | Flasher | J133-6 | J134-5 | | Q28 | J111-1 | J112-1 | | BLK-BRN | #555 | #89 |
| 18 | MIDDLE LEFT FLASHER | Flasher | J133-6 | J134-5 | | Q32 | J111-2 | J112-2 | | BLK-RED | #555 | #89 |
| 19 | LOWER JET FLASHER | Flasher | J133-6 | J134-5 | | Q27 | J111-3 | J112-3 | | BLK-ORG | #555 | #89 |
| 20 | PLAYFIELD BOLTS | Flasher | J133-6 | | | Q31 | J111-4 | | | BLK-YEL | #89 (2) | |
| 21 | SKULL FLASHER LEFT | Flasher | J133-6 | | | Q26 | J111-5 | | | BLU-GRN | #906 | |
| 22 | UPPER RIGHT FLASHER | Flasher | J134-6 | | | Q30 | J111-6 | | | BLU-BLK | #906 | |
| 23 | LEFT RAMP FLASHER | Flasher | J134-6 | | | Q25 | J111-7 | | | BLU-VIO | #906 | |
| 24 | CENTER LEFT FLASHER | Flasher | J133-6 | | | Q29 | J111-8 | | | BLU-GRY | #906 | |
| 25 | SKULL FLASHER RIGHT | Gen. Purpose | J133-6 | | | Q16 | J109-1 | | | BLU-BRN | #906 | |
| 26 | CENTER TV | Gen. Purpose | J133-6 | J134-5 | | Q15 | J109-2 | J107-3 | | BLU-RED | #906 | #89 |
| 27 | UPPER LEFT FLASHER | Gen. Purpose | J133-6 | | | Q14 | J109-3 | | | BLU-ORG | #906 | |
| 28 | CENTER RIGHT FLASHER | Gen. Purpose | J133-6 | | | Q13 | J109-4 | | | BLU-YEL | #906 | |
| 33 | LEFT DIVERTER POWER | High Power | J119-6.7 | | | Q84 | J120-6 | | | YEL-VOI | A-20099 | |
| 34 | RIGHT DIVERTER HOLD | Low Power | J119-6.7 | | | Q86 | J120-4 | | | ORG-VIO | A-20099 | |
| 35 | LOWER LEFT FLASHER | High Power | J133-6 | | | Q81 | J120-3 | | | YEL-GRY | #906 | |
| 36 | LOWER RIGHT FLASHER | Low Power | J133-6 | | | Q83 | J120-1 | | | ORG-GRY | #906 | |
| 37 | **AUX LAMP CLOCK | L.P.D.C. | J141-2 | | | | J110-1 | | | BRN-WHT | A-20781 | |
| 38 | **AUX LAMP DATA | L.P.D.C. | J141-2 | | | | J110-3 | | | ORG-WHT | A-20781 | |
| 39 | *SPIDER WHEEL 1 (1.8V) | L.P.D.C. | | J141-2 | | | | J110-4 | | YEL-WHT | | 14-8024 |
| 40 | *SPIDER WHEEL 2 (1.8V) | L.P.D.C. | | J141-2 | | | | J110-5 | | GRN-WHT | | 14-8024 |

| General Illumination | | | | | | | | | | | | |
|----------------------|------------------------|------|--------|--------|--|----|--------|---------|--|---------|-----|-----|
| 01 | UPPER PLAYFIELD | G.I. | J105-1 | | | Q5 | J105-7 | | | WHT-BRN | #44 | |
| 02 | CENTER PLAYFIELD | G.I. | J105-2 | | | Q4 | J105-8 | | | WHT-ORG | #44 | |
| 03 | LOWER PLAYFIELD | G.I. | J105-3 | | | Q3 | J105-9 | | | WHT-YEL | #44 | |
| 04 | +ILLUMINATION STRING 4 | G.I. | | J106-7 | | Q2 | | J106-10 | | WHT-GRN | | #44 |
| 05 | +ILLUMINATION STRING 5 | G.I. | | J106-6 | | Q1 | | J106-11 | | WHT-VIO | | #44 |

| Flipper Circuits | Voltage Connection | Drive Xistors | | Drive Connections | Drive Wire Colors | Coil Part No. | Coil Colors | |
|------------------|---------------------|---------------|------------------|-------------------|-------------------|---------------|-------------|-------|
| | | Power | Hold | | | | | |
| 29 | | Power | J119-1 (RED-GRN) | Q90 | J120-13 | YEL-GRN | FL-11629 | BLUE |
| 30 | LOWER RIGHT FLIPPER | Hold | J119-1 (RED-GRN) | Q92 | J120-11 | ORG-GRN | | |
| 31 | | Power | J119-4 (RED-BLU) | Q67 | J120-9 | YEL-BLU | FL-11629 | BLUE |
| 32 | LOWER LEFT FLIPPER | Hold | J119-4 (RED-BLU) | Q69 | J120-7 | ORG-BLU | | |
| 33 | | Power | J119-6 (RED-VIO) | Q84 | J120-6 | YEL-VIO | SEE | ABOVE |
| 34 | UPPER RIGHT FLIPPER | Hold | J119-6 (RED-VIO) | Q86 | J120-4 | ORG-VIO | | |
| 35 | | Power | J119-8 (RED-GRY) | Q81 | J120-3 | YEL-GRY | SEE | ABOVE |
| 36 | UPPER LEFT FLIPPER | Hold | J119-8 (RED-GRY) | Q83 | J120-1 | ORG-GRY | | |

J1xx = Power Driver Board; L.P.D.C. = Lower Power Device Controls
 + These G.I. strings do not brighten and dim, they are always ON. * Located in Backbox ** Located under Playfield

LAMP MATRIX

| Column | Yellow (B+) → Red | | | | | | | |
|--------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|----------------------------|--------------------------|
| | 1 Yellow-Brown J121-1 Q96 | 2 Yellow-Red J121-2 Q100 | 3 Yellow-Orange J121-3 Q95 | 4 Yellow-Black J121-4 Q99 | 5 Yellow-Green J121-5 Q94 | 6 Yellow-Blue J121-6 Q98 | 7 Yellow-Violet J121-7 Q93 | 8 Yellow-Grey J121-8 Q97 |
| 1 Red-Brown J125-1 Q104 | STIFF LEVEL 7 11 | STIFF LEVEL 8 21 | CRATE LEFT EYE 31 | LEFT LEAPER 41 | RAMP ITEM 51 | LABORATORY ITEM 61 | WEB AWARD 7 71 | WEB AWARD 15 81 |
| 2 Red-Black J125-2 Q108 | STIFF LEVEL 6 12 | STIFF LEVEL 9 22 | CRATE CENTER LEFT 32 | LEFT RAMP JACKPOT 42 | COFFIN MULTIBALL ITEM 52 | CRATE ITEM 62 | WEB AWARD 8 72 | WEB AWARD 16 82 |
| 3 Red-Orange J125-4 Q103 | STIFF LEVEL 5 13 | SCARED STIFF 23 | CRATE CENTER RIGHT 33 | LIGHT LOCK 43 | LEAPER ITEM 53 | SKULL ITEM 63 | WEB AWARD 9 73 | WEB AWARD 1 83 |
| 4 Red-Yellow J125-5 Q107 | STIFF LEVEL 4 14 | CENTER LEAPER 24 | CRATE RIGHT EYE 34 | RAMP RIGHT EYE 44 | COFFIN SPOTLIGHT 54 | WEB AWARD 2 64 | WEB AWARD 10 74 | LEFT SKULL LANE 84 |
| 5 Red-Green J125-6 Q102 | STIFF LEVEL 3 15 | THREE BANK LOWER 25 | LEFT OUTLANE 35 | RIGHT OUTLANE 45 | SHOOT AGAIN 55 | WEB AWARD 3 65 | WEB AWARD 11 75 | CENTER SKULL LANE 85 |
| 6 Red-Blue J125-7 Q106 | STIFF LEVEL 2 16 | THREE BANK MIDDLE 26 | RIGHT LEAPER 36 | SKILL SHOT 46 | LOCK LAMP 56 | WEB AWARD 4 66 | WEB AWARD 12 76 | RIGHT SKULL LANE 86 |
| 7 Red-Violet J125-8 Q101 | STIFF LEVEL 1 17 | THREE BANK UPPER 27 | RIGHT RAMP JACKPOT 37 | CRATE JACKPOT 47 | LEFT LOOP CENTER 57 | WEB AWARD 5 67 | WEB AWARD 13 77 | BUY IN 87 |
| 8 Red-Grey J125-9 Q105 | RAMP LEFT EYE 18 | SPIDER POPPER 28 | LIGHT SPIN SPIDER 38 | EXTRA BALL 48 | LEFT LOOP UPPER 58 | WEB AWARD 6 68 | WEB AWARD 14 78 | START BUTTON 88 |

J1XX = Power Driver Board

SWITCH MATRIX

| DEDICATED GROUNDED SWITCHES | Column | White → Green | | | | | | | | FLIPPER GROUNDED SWITCHES |
|---|-----------------------------|-----------------------------|---------------------------|------------------------------|------------------------------|-----------------------------|----------------------------|------------------------------|----------------------------|--|
| | | 1 Green-Brown J206-1 U20-18 | 2 Green-Red J206-2 U20-17 | 3 Green-Orange J206-3 U20-16 | 4 Green-Yellow J206-4 U20-15 | 5 Green-Black J206-5 U20-14 | 6 Green-Blue J206-6 U20-13 | 7 Green-Violet J206-7 U20-12 | 8 Green-Grey J206-9 U20-11 | |
| Orange-Brown J205-1 LEFT COIN CHUTE U17-5 | 1 White-Brown J208-1 U18-11 | NOT USED 11 | SLAM TILT 21 | TROUGH EJECT 31 | COFFIN LEFT 41 | LEFT SLING SHOT 51 | THREE BANK UPPER 61 | LEFT SKULL LANE 71 | NOT USED 81 | Black-Green J208-13 Lower Right Flipper E.O.S. F1 |
| Orange-Red J205-2 CENTER COIN CHUTE U17-7 | 2 White-Red J208-2 U18-9 | WHEEL INDEX 12 | COIN DOOR CLOSED 22 | TROUGH BALL 1 32 | COFFIN CENTER 42 | RIGHT SLING SHOT 52 | THREE BANK MIDDLE 62 | CENTER SKULL LANE 72 | NOT USED 82 | Blue-Violet J212-12 Lower Right Flipper Opto F2 |
| Orange-Black J205-3 RIGHT COIN CHUTE U17-11 | 3 White-Orange J208-3 U18-5 | START BUTTON 13 | BUY IN BUTTON 23 | TROUGH BALL 2 33 | COFFIN RIGHT 43 | UPPER JET BUMPER 53 | THREE BANK LOWER 63 | RIGHT SKULL LANE 73 | NOT USED 83 | Black-Blue J208-12 Lower Left Flipper E.O.S. F3 |
| Orange-Yellow J205-4 4 TH COIN CHUTE U17-9 | 4 White-Yellow J208-4 U18-7 | PLUMB BOB TILT 14 | ALWAYS CLOSED 24 | TROUGH BALL 3 34 | LEFT RAMP ENTER 44 | CENTER JET BUMPER 54 | LEFT LEAPER 64 | SECRET PASSAGE 74 | NOT USED 84 | Blue-Gray J212-11 Lower Left Flipper Opto F4 |
| Orange-Green J205-6 U16-9 Normal Function Srv Crdts | 5 White-Green J208-5 U19-11 | NOT USED 15 | EXTRA BALL LANE 25 | TROUGH BALL 4 35 | RIGHT RAMP ENTER 45 | LOWER JET BUMPER 55 | CENTER LEAPER 65 | NOT USED 75 | NOT USED 85 | Black-Violet J208-11 Upper Right Flipper E.O.S. F5 |
| Orange-Blue J205-7 U16-11 Normal Function Volume Dn | 6 White-Blue J208-7 U19-9 | KICK BACK 16 | LEFT FLIPPER LANE 26 | RIGHT POPPER 36 | LEFT RAMP MADE 46 | UPPER SLING SHOT 56 | RIGHT LEAPER 66 | NOT USED 76 | NOT USED 86 | Black-Yellow J212-10 Upper Right Flipper Opto F6 |
| Orange-Violet J205-8 U16-7 Normal Function Volume Up | 7 White-Violet J208-8 U19-5 | RIGHT FLIPPER LANE 17 | RIGHT OUTLANE 27 | LEFT KICKOUT 37 | RIGHT RAMP MADE 47 | CRATE SENSOR 57 | LEFT RAMP 10 POINT 67 | NOT USED 77 | NOT USED 87 | Black-Gray J208-10 Upper Left Flipper E.O.S. F7 |
| Orange-Grey J205-9 U16-5 Normal Function Begin Test | 8 White-Grey J208-9 U19-7 | SHOOTER LANE 18 | SINGLE STANDUP 28 | CRATE ENTRANCE 38 | COFFIN ENTRANCE 48 | LEFT LOOP 58 | RIGHT LOOP 68 | NOT USED 78 | NOT USED 88 | Black-Blue J212-9 Upper Left Flipper Opto F8 |

J2XX = CPU Board = OPTO, TYPICALLY CLOSED