

INSTRUCTIONS FOR TRACING THE CIRCUITS  
IN DAILY DOUBLE TRACK ODDS  
(Serial Numbers 12,001 to 12,500)

CIRCUIT #1 ODDS CHANGER LIGHTS  
Illuminated continuously

Transformer to terminal block #3F, white wire to fuse #4, white wire to male plug #5C, to female plug #5C, jumper to female plug #4B, white red black wire to odds changer lights----grounded to light mounting bar, white orange wire to panel lights mounting bar, white orange wire to female plug #5F, to male plug #5F, white orange wire to terminal block #3E, to transformer.

CIRCUIT #2, SPINNER LIGHTS  
(Illuminated continuously)

Transformer to terminal block #3F, white wire to fuse #4, white wire to male plug #5C, to female plug #5C, jumper to female plug #6D, to male plug #6D, white wire to male plug #13D, to female plug #13D, white wire to spinner ring #A, to brushes #A, white wire to spinner lights----grounded to light mounting bar, to spinner frame, white orange wire to female plug #13E, to male plug #13E, white orange wire to male plug #6G, to female plug #6G, jumper to female plug #5F, to male plug #5F, white orange wire to terminal block #3E, to transformer.

CIRCUIT #3, PANEL LIGHTS

(For #1 coin slot. For slots #2,3,4,5,6,7, wiring is similar)

The important contact in Circuit #3 is: COIN CHUTE LIGHT SWITCH #1

Transformer to terminal block #3F, white wire to fuse #4, white wire to male plug #5C, to female plug #5C, jumper to female plug #6D, to male plug #6D, white wire to light switch #1, white orange blue wire to male plug #6-1, to female plug #6-1, white orange blue wire to panel lights #1----grounded to lights mounting bar, white orange wire to female plug #5F, to male plug #5F, white orange wire to terminal block #3E, to transformer.

CIRCUIT #4, DAILY DOUBLE LIGHTS

(For #1, red light. For other lights, wiring is similar.)

The important contacts in Circuit #4 are:  
PLUNGER #X & MOVING PLUNGER on flasher.

Transformer to terminal block #3F, white wire to fuse #4, white wire to male plug #5C, to female plug #5C, jumper to female plug #4B, to male plug #4B, white wire to flasher terminal #A, white wire to plunger #X, to moving plate, to moving plunger, to rivet #1, white blue wire to terminal #1, white blue wire to male plug #4-1, to female plug #4-1, white blue wire to daily double light #1 (red)----grounded to daily double light casting, white orange wire to panel lights mounting bar, white orange wire to female plug #5F, to male plug #5F, white orange wire to terminal block #3E, to transformer.

CIRCUIT #5, TRANSFORMER

110 Volt plug, black wire to fuse #1, black wire to terminal block #3B, to transformer----to terminal block #3A, black white wire to 110 volt plug.

CIRCUIT # 6, MASTER RELAY COIL (CLOSING)

The important contacts in Circuit #6 are:  
RELAY CLOSING SWITCH & #2 CAM SWITCH.

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I to male plug #8-I, yellow red wire to relay closing switch, yellow black wire to male plug #8B, to female plug #8B, yellow black wire to male plug #12A, to female plug #12A, yellow black wire to bottom of #2 cam switch, to top of #2 cam switch, yellow black wire to female plug #12H, to male plug #12H, yellow black wire to terminal block #1G, to master relay coil----to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

CIRCUIT # 7, MASTER RELAY COIL, (HOLDING)

The important contacts in Circuit #7 are:  
RELAY HOLDING SWITCH, MASTER RELAY SWITCH  
#B & #3 CAM SWITCH.

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, to male plug #8-I, yellow red wire to relay holding switch, yellow green wire to male plug #8C, to female plug #8C, yellow green wire to terminal block #1E, yellow green wire to master relay switch #B, yellow green wire to terminal block #1F, yellow green wire to male plug #12B, to female plug #12B, yellow green wire to bottom of #3 cam switch, to top of #3 cam switch, yellow black wire to female plug #12H, to male plug #12H, yellow black wire to terminal block #1G, to master relay coil----to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

CIRCUIT #8, MOTOR & MOTOR BRAKE COIL (STARTING)

The important contacts in Circuit #8 are: MOTOR  
STARTING SWITCH, MASTER RELAY SWITCH #A & COIN  
CHUTE OUTSIDE SWITCHES.

110 volt plug, black wire to fuse #1, black wire to female plug #8A, to male plug #8A, black wire to motor starting switch, black wire to male plug #8H, to female plug #8H, black wire to terminal block #1A, black wire to master relay switch #A, black wire to terminal Block #1-B, black wire to male plug #12N, to female plug #12N, black wire to female plug #13G, to male plug #13G, black wire to coin chute outside switches, black wire to male plug #13F, to female plug #13F, black wire to terminal

#### CIRCUIT #8 CONTINUED

plug #2G, to motor & motor brake coil----to terminal block #2F, black white wire to female plug #12G, to male plug #12G, black white wire to terminal block #3A, black white wire to 110 volt plug.

#### CIRCUIT #9 MOTOR & MOTOR BRAKE COIL, (RUNNING)

(Automatic cam reset if 110 v. plug is pulled before machine completes play.)

The important contact in Circuit #9 is #1 CAM SWITCH

110 volt plug, black wire to fuse #1, black wire to female plug #8A, black wire to male plug #12M, to female plug #12M, black wire to bottom of #1 cam switch, to top of #1 cam switch, black wire to terminal block #2G, to motor & motor brake coil----to terminal block #2F, black white wire to female plug #12G, to male plug #12G, black white wire to terminal block #3A, black white wire to 110 volt plug.

#### CIRCUIT #10, SPINNER CLUTCH COIL.

The important contact in circuit #10 is: #4 CAM SWITCH.

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to male plug #12C, to female plug #12C, yellow red wire to bottom of #4 cam switch, to top of #4 cam switch, green wire to terminal block #2B, green wire to spinner clutch coil----yellow wire to terminal block #2C, yellow wire to female plug #12-I, to male plug #12-I, yellow wire to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

#### CIRCUIT #11, SPINNER BRAKE COIL

The important contact in Circuit #11 is: #5 CAM SWITCH.

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to male plug #12C, to female plug #12C, yellow red wire to bottom of #5 cam switch, to top of #5 cam switch, orange white wire to terminal block #2A, orange white wire to spinner brake coil----yellow wire to terminal block #2C, yellow wire to female plug #12-I, to male plug #12-I, yellow wire to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal #3C, to transformer.

CIRCUIT #12, FLASHER MOTOR & BRAKE COIL.

The important contact in Circuit #12 is:  
#5 CAM SWITCH

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to male plug #12C, to female plug #12C, yellow red wire to bottom of #5 cam switch, to top of #5 cam switch, orange white wire to terminal block #2A, orange white wire to female plug #12J, to male plug #12J, orange white wire to female plug #11F, to male plug #11F, orange white wire to terminal #D, orange white wire to flasher motor & brake coil----yellow wire to terminal #E, yellow wire to male plug #11M, to female plug #11M, yellow wire to terminal block #3C, to transformer.

CIRCUIT #13, ODDS CHANGER COIL

The important contact in Circuit #13  
is: #6 CAM SWITCH

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to male plug #12C, to female plug #12C, yellow red wire to bottom of #6 cam switch, to top of #6 cam switch, orange wire to female plug #12D, to male plug #12D, orange wire to female plug #10E, to male plug #10E, orange wire to odds changer coil----yellow wire to male plug #10L, to female plug #10L, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

CIRCUIT #14, PAYOUT RESET COIL

The important contact in Circuit #14  
is: #7 CAM SWITCH.

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to male plug #12C, to female plug #12C, yellow red wire to bottom of #7 cam switch, to top of #7 cam switch, orange black wire to female plug #12E, to male plug #12E, orange black wire to terminal block #1P, orange black wire to male plug #3B, to female plug #3B, to binder post #D, to payout reset coil----to binder post #C, to female plug #3F, to male plug #3F, yellow wire to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

CIRCUIT #15, VARIATOR COIL

The important contact in Circuit #15  
is: #7 CAM SWITCH

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to male plug #12C, to female plug #12C, yellow red wire to bottom of #7 cam switch, to top of #7 cam switch, orange black wire to female plug #12E, to male plug #12E, orange black wire to terminal block #1P, orange black wire to female plug #14A, to male plug #14A, orange black wire to variator coil----yellow wire to male plug #14C, to female plug #14C, yellow wire to female plug #11M, yellow wire to terminal block #3C, to transformer.

**CIRCUIT #16, PAYOUT RELAY COIL THROUGH #8 CAM SWITCH**  
(For #1 coin slot & 16 payout. Circuits through other coin slots & other payout numbers are similar.)

The important contacts in Circuit #16 are:  
RELAY HOLDING SWITCH; MASTER RELAY SWITCH  
#B, #3CAM SWITCH, #8 CAM SWITCH, SPINNER  
BRUSHES #B & COMMUTATOR BRUSH, COIN CHUTE  
SWITCH #1, ODDS CHANGER COMMUTATOR BRUSH #1 & COLLECTOR  
RING BRUSH #16, PAYOUT UNIT BRUSH #V.

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, to male plug #8-I, yellow red wire to relay holding switch, yellow green wire to male plug #8C, to female plug #8C, yellow green wire to terminal block #1E, yellow green wire to master relay switch #B, yellow green wire to terminal block #1F, yellow green wire to male plug #12B, to female plug #12B, yellow green wire to bottom of #3 cam switch, to top of #3 cam switch, to bottom of #8 cam switch, to top of #8 cam switch, green white wire to spinner ring #B, to brushes #B, to spinner commutator brush, to commutator point #1, red wire to female plug #13-1, to male plug #13-1, red wire to coin chute switch #1, red white wire to male plug #7-1, to female plug #7-1, red white wire to odds changer commutator brush #1, to commutator point #16, to collector ring #16, to collector ring brush #16, orange wire to male plug #1-16, to female plug #1-16, to payout unit commutator eyelets #16, to commutator brush #V, to binder post #E, to female plug #3G, to male plug #3G, red white wire to terminal block #1L, to payout relay coil----to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

**CIRCUIT #17, PAYOUT RELAY COIL THROUGH PAYOUT RELAY SWITCH #B.**  
(For #1 coin slot & 16 payout. Circuits through other coin slots & other payout numbers are similar.)

The important contacts in Circuit #17 are: PAYOUT RELAY SWITCH #B,  
SPINNER BRUSHES #B & COMMUTATOR BRUSH, COIN CHUTE SWITCH #1, ODDS  
CHANGER COMMUTATOR BRUSH #1 & COLLECTOR RING BRUSH #16, PAYOUT UNIT  
BRUSH #V

Transformer to terminal block #3D, yellow red wire to fuse #3, yellow red wire to female plug #8-I, yellow red wire to terminal block #1J, yellow red wire to payout relay switch #B, blue wire to terminal block #1K, blue wire to male plug #12K, to female plug #12K, blue wire to top of #8 cam switch, green white wire to spinner ring #B, to brushes #B, to spinner commutator brush, to commutator point #1, red wire to female plug #13-1, to male plug #13-1, red wire to coin chute switch #1, red white wire to male plug #7-1, to female plug #7-1, red white wire to odds changer commutator brush #1, to commutator point #16, to collector ring #16, to collector ring brush #16, orange wire to male plug #1-16, to female plug #1-16, to payout unit commutator eyelets #16, to commutator brush #V, to binder post #E, to female plug #3G, to male plug #3G, red white wire to terminal block #1L, to payout relay coil----to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

#### CIRCUIT #18, PAYOUT COIL

The important contacts in Circuit #18 are:  
PAYOUT RELAY SWITCH #A & PAYOUT UNIT OSCILLATING SWITCH.

Transformer to terminal block #3D, red wire to fuse #2, red wire to terminal block #1H, red wire to payout relay switch #A, red wire to terminal block #1-I, red wire to male plug #3C, to female plug #3C, jumper to female plug #2A, to binder post #B, to top of oscillating switch, to bottom of oscillating switch, to binder post #A, to payout coil----to binder post #C, to female plug #3F, to male plug #3F, yellow wire to terminal block #1M, yellow wire to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

#### CIRCUIT #19, DAILY DOUBLE PAYOUT COIL.

The important contacts in Circuit #19 are.  
PAYOUT RELAY SWITCH #A, PAYOUT UNIT BRUSH #T  
& FLASHER TWIN MOVING PLUNGERS.

Transformer to terminal block #3D, red wire to fuse #2, red wire to terminal block #1H, red wire to payout relay switch #A, red wire to terminal block #1-I, red wire to male plug #3C, to female plug #3C, to payout unit eyelet #R, to brush #T, to eyelet #S, to female plug #3D, to male plug #3D, blue yellow wire to female plug #11N, to male plug #11N, blue yellow wire to flasher terminal #C, blue yellow wire to rivet #Z, to twin moving plungers, to rivet #Y, blue yellow wire to terminal #B, blue yellow wire to male plug #11G, to female plug #11G, jumper to female plug #9D, to male plug #9D, blue yellow wire to daily double payout coil----yellow wire to male plug #9K, to female plug #9K, jumper to female plug #11M, yellow wire to terminal block #3C, to transformer.

#### CIRCUIT #20, MOTOR VARIATOR CIRCUIT

The important contact in Circuit #20 is:  
VARIATOR BRUSH #M.

Variator lead on motor, white red wire to terminal block #2D, white red wire to female plug #12F, to male plug #12F, white red wire to female plug #14B, to male plug #14B, white red wire to variator center post, to brush #M, to rivets in outer circle, to one of the upper resistor terminals, to bottom resistor terminal, white red wire to male plug #14D, to female plug #14D, white red wire to male plug #12L, to female plug #12L, white red wire to terminal block #2E, white red wire to variator lead on motor.