

DOCUMENT: HMS\_SSC\_DIAG.TXT  
HMS\_SSC Slot Controller Board Diagnostics

To enable machine diagnostics move 'finger pull jumper' J5 to the 'Diag' position.

When you turn the machine on you will see -01 on the coin out meter

Note: If you do not see -01 on the coins paid meter (3 digit meter show coins paid) Goto the 'Meter Diagnostics' below

```
;GAME DIAGNOSTICS (TESTS ALL I/O OF THE GAME)
;USE HOPPER FILL TO STEP THRU THESE DIAGNOSTICS (-01 thru -16)
GAME_DIAGNOSTIC
-01 TURN ON COIN_LI_1 + INCL (INSERT COIN LIGHT)
-02 TURN ON COIN_LI_2 + CACL (COIN ACCEPTED LIGHT)
-03 TURN ON COIN_LI_3 + TILT (TILT LIGHT)
-04 TURN ON COIN_LI_4 (NOT ON ALL MACHINES)
-05 TURN ON COIN_LI_5 (NOT ON ALL MACHINES)
-06 TURN ON COIN_LI_6 (NOT ON ALL MACHINES)
-07 DISPLAY COIN IN SWITCH (COIN LIGHTS 1 THRU 3 TURN ON WITH
SWITCH CLOSURE)
-08 DISPLAY COIN OUT SWITCH (COIN LIGHTS 1 THRU 3 TURN ON WHEN
ACTIVATING THE COIN OUT SWITCH ON THE HOPPER)
-09 DISPLAY DOOR SW (COIN LIGHTS 1 THRU 3 TURN ON WITH DOOR OPEN
AND SHOULD TURN OFF WITH DOOR CLOSED (HINGE SWITCH))
```

USE THE HOPPER RESET SWITCH TO ACTIVATE THE FOLLOWING DIAGNOSTICS:

```
-10 CLKT (COIN LOCKOUT COIL (BEHIND THE COIN MECHANISM))
-11 RUN THE JPBL (JACK POT BELL)
-12 TEST THE HPSF CIRCUIT (THE HOPPER SHOULD NOT RUN)
HPSF = HOPPER SAFE CIRCUIT
-13 TEST THE HPRN CIRCUIT (THE HOPPER SHOULD NOT RUN)
HPRN = HOPPER RUN CIRCUIT
-14 RUN THE HOPPER (RUNS BOTH HPSF AND HPRN)
(BOTH HPSF AND HPRN ENABLE THE HOPPER TO RUN)
-15 RELEASE THE HANDLE (THE HANDLE RELEASE COIL IS ACTIVATED)
(THE RELEASE LEVER SHOULD DROP ALLOWING THE HANDLE TO BE PULLED)
```

THESE NEXT TWO DIAGNOSTICS DON'T USE THE HOPPER RESET SWITCH

```
-16 SHOW 'LAUNCH SWITCH' STATE (HANDLE IS RELEASED)
    COIN LIGHTS 1-2 ARE ON, LIGHT 3 IS OFF (REELS NOT LAUNCHED)
    LIGHTS 1-2 GO OFF AND LIGHT 3 IS ON AS THE REELS ARE
LAUNCHED (THE LAUNCH SWITCH RETURNS TO THE STANDBY STATE AFTER
REELS ARE LAUNCHED)
;17 GAME SIMULATION (REELS 1 TO 4) ; -16
; PULL THE HANDLE, LAUNCH THE REELS, STOP THE REELS (EACH REEL
RUNS .4 SECONDS)
```

COINS PAID METER DIAGNOSTIC:

MOVE THE FINGER PULL JUMPER 'J4' TO THE DIAG POSITION.  
THE COINS PAID METER SHOULD CYCLE THRU DIGITS 1-9 PLUS SOME  
SPECIAL SEGMENTS.

IF THE YOU DO NOT GET ALL 3 DIGITS OR ALL 7 SEGEMENTS THEN THE 18  
AND 24 PIN CONNECTORS AT THE BACK OF THE REEL  
ASSEMBLY NEED CLEANING.

RE: CLEANING:

IF YOU HAVE A DREMEL TOOL AND A SOFT 'BRASS' WIRE BRUSH, USE THAT  
TO CLEAN THE OXIDATION OFF THE PINS. Then spray  
contact cleaner into the female connectors. Insert the reel  
assembly multiple times to help 'wipe' the oxidation off of  
the female recepticle once the contact cleaner has been applied.

No Dremel tool: You can use some very fine sand paper (600 grit)  
and a popsicle stick to gently clean the pins.

Note: If you remove the tin plating exposing the brass metal of  
the pin, then you will likely need to replace the  
connectors. The original connectors were custom connectors. The  
replacement connectors (same manufacturer) have to be  
replaced in pairs (both 24 pin or both 18 pin connectors). This  
is very tedious and not recommended!