



SERVICE NOTE

EFFECT: SPACE FIREBIRD

NUMBER: 001

JANUARY 7, 1981

1 OF 4

THE RECENTLY RELEASED SPACE FIREBIRD OWNER'S MANUAL, 420-0533, CONTAINS ERRORS ON CPU SCHEMATIC (834-0031), VIDEO SCHEMATIC (834-0030), AND THE PROGRAMABLE SOUND BOARD SCHEMATIC (834-0029). THE FOLLOWING CHANGES SHOULD BE MADE:

CPU SCHEMATIC

1. CHANGE SHEET 2 OF 3 TO READ 1 OF 2.
2. CHANGE SHEET 3 OF 3 TO READ 2 OF 2.

SHEET 1

1. IN QUADRANT 7B, THE LS04 NEXT TO IC 3M IS 3F NOT 3E.
2. IC 1F, PIN 2 GOES TO 1C, PIN 11 NOT TO R18.
3. CONNECTOR P7, PIN 1 SHOULD BE +5V NOT +24V. (COUNTER VOLTAGE SHOULD BE LESS THAN +5V)
4. IN QUADRANT 4D, CHANGE SYNC TO READ COMP SYNC.

SHEET 2

1. THE INVERTER GATE LEADING TO IC 3G, PIN 11 SHOULD BE LABELED 3F.
2. IC 5D, PIN 15 GOES TO 3B, PIN 6.
3. CONNECTOR P1, POSITIONS 1 THROUGH 8 SHOULD BE LISTED AS:

- 1--BOMB SOUND
- 2--FIREBIRD HIT
- 3--BONUS (1000)
- 4--HYPER SPACE
- 5--BIRD FALLING



SERVICE NOTE

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NUMBER: 001

2 OF 4

6--LASER

7--BIRD HIT

8--EXPLOSION

4. WRITE GREMLIN NUMBERS ON THE EPROMS (2716 X 8), LEFT TO RIGHT:

C39--767

C40--768

C41--769

C42--770

C43--771

C44--772

C45--773

C46--774

VIDEO SCHEMATIC

1. CHANGE SHEET 2 OF 3 TO READ 1 OF 2.
2. CHANGE SHEET 3 OF 3 TO READ 2 OF 2.

SHEET 1

1. IC 2E SHOULD BE LS86 VICE LS66.
2. IN QUADRANT 3B, DELETE C38--IF THIS CAPACITOR IS ON YOUR BOARD, YOU WILL NOT BE ABLE TO SEE THE LASER FIRE ON THE SCREEN.
3. LABEL THE EPROMS AT POSITIONS 5K AND 6K AS: 5K--775, 6K--776.



SERVICE NOTE

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NUMBER: 001

3 OF 4

3 OF 4

SHEET 2

1. IN ICS 5B, 6B, 5C, 6C, 5D, 6D, 5E, AND 6E CHANGE 22PIC TO READ 2101A-2.

SOUND BOARD SCHEMATIC

1. IN QUADRANT D5, IC 12, PIN 13 GOES TO IC 9, PIN 4 NOT PIN 6.

2. CONNECTOR P2 SHOULD BE LABELED AS:

5--BIRD FALLING

3--BONUS (1000)

4--HYPER SPACE

2--FIREBIRD HIT

1--BOMB SOUND

6--LASER

7--BIRD HIT

8--EXPLOSION

3. ON CONNECTOR P3, LABEL PIN 13 AS "EXPLOSION NOISE".

4. IN QUADRANT 7B, LABEL VR2 AS "LASER SOUND ADJUST".

5. IN QUADRANT 6A, C21 SHOULD BE C18.

6. IN QUADRANT 5B, LABEL VR3 AS "BIRD HIT ADJUST".

7. IN QUADRANT 6D, LABEL THE POINT UNDER ANODE D2 AS "NOISE FOR LASER".

8. IN QUADRANT 7C, LABEL IC 20 AS 775..

9. IN QUADRANT 5B, THE LINE AFTER R42 SHOULD BE LABELED "EXPLOSION NOISE OUT".

10. IN QUADRANT C4, THE LINE AFTER R13 SHOULD BE LABELED "LASER AND BIRD



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4 OF 4

HIT OUT".

IF YOU HAVE ANY QUESTIONS REGARDING THIS SERVICE NOTE, CONTACT GREMLIN/
SEGA CUSTOMER SERVICE, (714) 277-8700.

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