IMPORTANT NOTE TO OPERATORS:

If the operation, maintenance and service manual was not included in this game when you unpacked it, contact your distributor to get a free copy. (All Atari and Kee Games manuals for coin-operated games also include a complete illustrated parts catalog.)

RESULTS IF TEST

PASSES

TV monitor displays

picture as shown to

1 PLAYER START

and 2 PLAYER

lighted. Highpitched click for

each activated

switch.

START LEDs are

2. Activate all

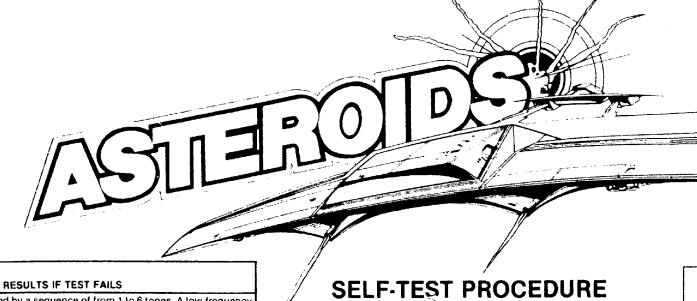
control panel and

coin door switches

INSTRUCTION

1. Set seif-test

switch to on posi-



To change toggle positions of the switch assembly, you need not remove the game PCB. The switch, usually colored blue, is easily accessible when the game PCB is mounted in place.

When changing the options, verify proper results on the TV monitor display during self-test. A switch toggle in the on position is indicated by a 0 for that switch on the TV monitor display. A switch in the off position is indicated by a 1.

OPTION SWITCH SETTINGS

Toggle settings of 8-toggle switch on game PCB								Option	Suggested Setting
1	2	3	4	5	6	7	8		
ON OFF ON OFF	ON ON OFF OFF			·		·		English Language German Language French Language Spanish Language	
		ON OFF						4-Ship Game 3-Ship Game	~
			ON OFF					Left Coin Mech × 1 Left Coin Mech × 2	~
				ON OFF ON OFF	ON ON OFF OFF			Right Coin Mech × 1 Right Coin Mech × 4 Right Coin Mech × 5 Right Coin Mech × 6	-
						ON OFF ON OFF	ON ON OFF OFF	Free Play 1 Coin 2 Plays 1 Coin 1 Play 2 Coins 1 Play	J **

POWER

ON/OFF SWITCH

REGULATOR/

ASTEROIDS GAME PCB

AUDIO PCB

				1	2	3	4	5	6	7	8	
				ON OFF ON OFF	ON ON OFF OFF							English Language German Language French Language Spanish Language
SWITCH TOGGLE 1	LEFT COIN MECH MULTIPLIER	RIGHT COIN MECH MULTIPLIER	SWITCH TOGGLE B			ON OFF						4-Ship Game 3-Ship Game
							ON OFF					Left Coin Mech x Left Coin Mech x :
								ON OFF ON OFF	ON ON OFF OFF			Right Coin Mech x Right Coin Mech x Right Coin Mech x Right Coin Mech x
X										ON OFF ON OFF	ON ON OFF OFF	Free Play 1 Coin 2 Plays 1 Coin 1 Play 2 Coins 1 Play
K					· · · · · · · · · · · · · · · · · · ·							

tion as shown to failing RAM chip. The sequence stops with the last failing RAM chip. To restart right. the sequence, press the Reset pushbutton on the game PCB or set the self-test switch to off, then again to the on position. Identify the bad RAM chip with table below. Example: Three tones, then a tone of much lower frequency indicates failure of RAM chip R4. **RAM CHIP LOCATION** TONE # D2 E2 M4 R4 ROM/PROM FAILURE is indicated by two lines of numbers in the upper left hand corner of the display. The number on the first line indicates the failing ROM/PROM chip(s). Identify the bad ROM/PROM with table below. The number on the second line indicates the failing data bit of the failing ROM/PROM. Identify the bad bit with the second table below. If more than one bit is failing, the displayed number(s) are hexadecimal combinations of the numbers shown below. Examples: 1) If bits D2 and D3 fail, C is displayed. 2) If bits D2, D3 and D7 fail, 8C is displayed. 3) If bits D4 and D5 fail, 30 is displayed. 4) If bits D1, D3, D5 and D6 fail, 6A is displayed DISPLAYED NO. FAILING ROM/PROM N/P3 K4, L4 F2, H1 F1 F2, L1 L2, L1 H2, J1 D/E1 H2, J1 M2, M1 J2, K1 C1 K1, J2 N2, N1 **FAILING BIT** DISPLAYED NO. D0 D1 D2 D3 D4 D5 10 20 D6 D7 40

lower middle of display.

RAM FAILURE is indicated by a sequence of from 1 to 6 tones. A low-frequency

tone is heard for each good RAM chip. A much lower frequency is heard for a

RAMSEL SIGNAL FAILURE is indicated by PAGE SELECT ERROR message at

1 PLAYER START and/or 2 PLAYER START LEDs not lighted.

High-pitched click sound is not heard for any particular switch.

