ADDENDA TO SERVICE MANUAL

The following is a list of either corrections to the Service Manual or changes which have been made to improve the operation of "Outlaw". In order to make the Service Manual available to you as soon as possible, we were unable to incorporate the changes and corrections in the manual. These changes were the following:

- 1. Video Summing Network: R108 changed from 100 to 1 K -.
- 2. Power Supply: R 53 & R 54 changed from 2.7 \sim 1/4 w to 2.7 \sim 1/2 w (carbon).
- 3. The printed circuit board has been enclosed in an RF shield to meet FCC requirements on radio frequency.
- 4. Speaker & grill have been remounted to the side of the cash door assembly. New speaker Part No. 48-004.
- 5. Motorola monitor used instead of Ball Brothers.
- 6. Item 4 switch double light described on parts listing for control panel assembly should read part No. A004304-11.
- 7. A revised table 3-1 switch settings for owner/operator options is attached.
- 8. A suggested bonus game setting table based upon the degree of difficulty is also enclosed.

SUGGESTED BONUS GAME SETTINGS

DEGREE OF DIFFICULTY	SWITCH SETTINGS	EXPLANATIONS	
Bonus Game	Sl off Sl on	No bonus game can be won. Bonus game can be won if player achieves bonus score requirements selected below.	
Easy/Difficulty	Sl on S2 off	Bonus game can be won. Bonus game can be won even if "Outlaw" scores.	
a to ;	S3 on S4 off	Skill level F wins game.	
	S5 on S6 off	Skill level F is score of 12.	
	S7 on	Bonus game can be won even if player draws pistol before outlaw stops running.	
Moderate/Difficulty	Sl on S2 off	Bonus game can be won. Bonus game can be won even if "Outlaw" scores.	
	S3 on S4 off	Skill level F wins bonus game	
4	S5 off S6 on	Skill level F is score of 24	
	S7 on	Bonus game can be won even if player draws pistol before Outlaw stops running.	
Hard/Difficulty	Sl on S2 off	Bonus game can be won. Bonus game can be won even if Outlaw scores.	
	S3 off S4 on	Skill level G wins bonus game.	
	S5 on S6 on	Skill level G is score of 36.	
	S7 on	Bonus game can be won if player draws before outlaw stops running.	
Very Hard/ Difficulty	Sl on S2 on	Bonus game can be won. Bonus game cannot be won if outlaw scores.	
	S3 off S4 on	Skill level G wins bonus game.	
	S5 on S6 on	Skill level G is score at 36.	
	S7 off	Bonus game can not be won if player draws before outlaw stops running.	

DESCRIPTION OF OPTION	SWITCH SETTING	EFFECT ON GAME OPERATION
Bonus Game	S1 off	Bonus game allowed NOT ALLOWED
	S1 on ≭	Bonus game *** allowed
Bonus Game —	S2 off 崇	No effect on game operation
ONLY IF OUTLAND	S2 on	bonus game, Set under skill level
Bonus Game — at Player	S3 off	No effect on game operation
Skill Level F	S3 on 🛠	Skill level F ("Greenhorn") meets requirement for bonus game (************************************
Bonus Game — at Player	S4 off 岑	No effect on game operation
Skill Level G	S4 on	Skill level G ("Top Gun") meets requirement for bonus game (************************************
Player Skill Level — Minimum Scores	S5 off and S6 off	Windows E, F, G do not light up, regardless of player's score
	S5 on and S6 off	Player's score of 6 lights up window E, 12 lights up F, and 16 lights up G
	S5 off and S6 on	Player's score of 14 lights up window E, 24 lights up F, and 34 lights up G
	S5 on and S6 on	Player's score of 16 lights up window E, 26 lights up F, and 36 lights up G
Cowards Shoot First	57 off 5 2 of €	If anytime during play the player draws the pistol before the outlaw stops running, the player is prevented from achieving a bonus game (regardless of score)
	57 on ** 52 oFF	Drawing the pistol before the outlaw stops running has no effect on achieving a bonus game
Number of plays per	S8 off	Two plays per coin
coin ·	S8 on 💥	One play per coin

Table 3-1 Switch Settings for Owner/Operator Options

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Due to its solid-state electronic circuitry, this Attai game should require very little maintenance and only occasional adjustment.

5.1.1 CDEARFORD Came cabinets and glass may be classed with any non-abrasis a household cleaner. If desired, special coin machine cleaners the leave no residue can be obtained from distributors.

5.3.2 LUGIDCATION: About once every three new dis lightly spray the rejector linkage portion of the coin acceptor inside the coin machanism. Use WD-465 or similar lubricant, and avoid spraying the entire coin acceptor.

5.2 ADJUSTMENTS ON TV MONITOR

The TV monitor need be adjusted only when the picture is distorted, or if contrast or brightness seem out of adjustment.

NOTE: The TV monitor is accessible only from inside the game cabinet and these adjustments have to be while the game is energized. Therefore only persons familiar with safety measures and repair procedures on electrical equipment should perform these adjustments.

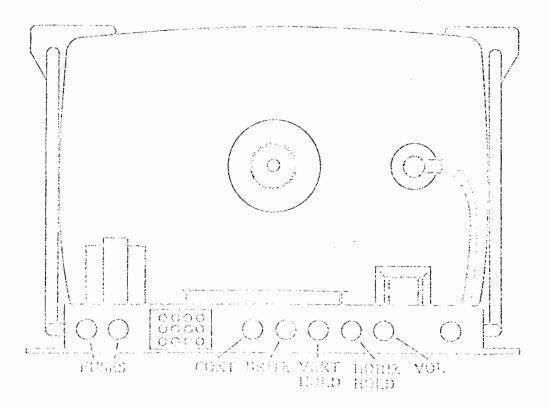
The TV monitor's adjustments function like those of a conventional commercial TV set, except that the volume adjustment has no effect. The Crash in Score game produces its sometim a speaker separate from the TV monitor. Figure 5-1 chows the location of these adjustments on the rear of the TV monitor chassis. The following are general guidelines to follow while making the readjustments:

noking the confusion less of the originated before the contrast. Adjust the Lightness so that the white lines covering the screen just barely disappear when the brightness turned up.

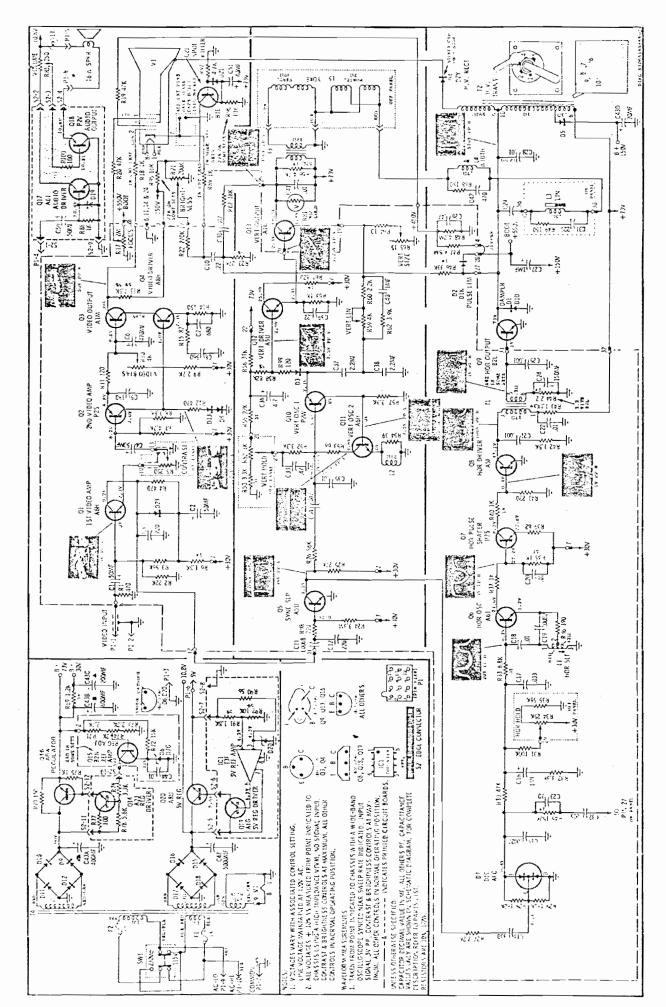
CONT (Contrast) - Adjust so that the images are as bright as possible against the dark background without being blurred.

HORIZ HOLD (Horizontal Hold)—Adjust if the picture is slightly off-center horizontally, if the images appear warped, or if the picture is broken up into a series of diagonal lines. Adjust for a stable, centered picture.

VERT HOLD (Venical Hold)—This needs adjustment only if the picture appears to be rolling up or down the screen. Adjust for a Stable, centered picture.



Physics 5-1 - Location of Adjordanate on DV Chasis



Motorola XM501/XM701 Monitor Schematic