

KURZ - KASCH INC. FLECTRONICS DIVISION 2271 ARBOR BLVD. DAYTON, OHIO 45439

Operating Instructions For Model 188 BC

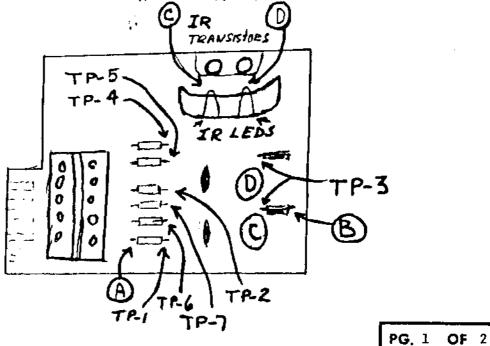
Atari Steering Board

	5(?			START 2			SR 2				:	5 V	
LLP	SLY	51.5	6 (3	LHP		k START 1	RLP	SRI	x SR5	SR 3	епр	ON	OFF
•		3 5 L 4		•		•	x	•	SR4	*	ĸ		
	5 L 6	,	SL 7			COIN		\$R 6	¥	SA 7		PO	WER
			r			•		. *		¥	×	ON	OFF

- 1. Insert 188 B card into "B" Program Slot, number side up.
- 2. Insert steering board into 25 pin connector at far left end, or use 188Cwhen checking later turn circuit boards.
- Turn on 5 V switch.
- Turn on power switch.
- 5. If both red LEDS on program cards come on go to step 6, if not go to 8.
- 6. Place a piece of cardboard in slot between IR transistor and IR LED at point C. "B" LED on card should go out. Do same for transistor and LED at point D. "A" LED on card should go out.

7. If board does not check out as above go on to 8.

8.



- Connect LP-520 Red to A (5 volts)
 Black to B (ground)
- TP-1 (use LP-520) low until "C" LED is blocked then high while blocked.
- TP-2 Same as TP-1 for "D" LED.
- TP-3 (use DC voltmeter) Low at all times on LF-520 + 0.7 volts when C & D not obstructed less than 0.3 V when C & D are obstructed.
- TP-4 (use DC voltmeter) +1.0 to + 1.5 volts. TP-5 (use DC voltmeter) +1.0 to + 1.5 volts.
- TP-6 & 7 (use DC voltmeter) +5.0 volts when C & D LEDS are obstructed approximately +1.5 volts when obstruction removed.

CORRECTIVE ACTION IF NECESSARY:

- 9. TF-1 & 2 Board OK if these check.
 - TP-4 & 5 If no check REPLACE IR LED
 - TP-6 & 7 If no check REPLACE IR TRANSISTOR
 - TP-1 & 2 If no check replace 2N 3643 TRANSISTOR "C" is C channel, "D" is D channel.