

FIELD ENGINEERING BULLETINREF. NO. 60829
MODEL BD-8206-04
ATR-100
PAGE 1 OF 6
SUPERSEDES
DATE OF ISSUE 6/82

TITLE: SHUTTLE SPEED CONTROL KIT

AMPEX PROVIDES PRODUCT IMPROVEMENT AND UPDATE INFORMATION THROUGH FIELD ENGINEERING BULLETINS FOR ALL AUDIO-VIDEO PRODUCTS TO ITS CUSTOMERS WORLD-WIDE. THIS SERVICE REFLECTS AMPEX'S POLICY OF AFTER SALES SUPPORT TO ENSURE THAT MAXIMUM PERFORMANCE AND RELIABILITY IS REALIZED BY OUR USERS.

I. APPLICABILITY

All ATR-100's (CCIR reels)

II. PURPOSE

To allow control of shuttle speed when CCIR reels are used. Also to optimize for best tape pack at highest speed.

III. DISCUSSION

The shuttle speed of the ATR-100 can be excessive when using CCIR reels. A kit, part number 1386173, has been developed to allow control of the shuttle speed. The kit includes a piggyback PWA, Handle and the necessary hardware for installation.

IV. PARTS REQUIRED

Parts required for this update can be purchased through Ampex. Installation assistance can be obtained through your local Ampex regional office at current Ampex Field Engineering rates.

<u>Qty</u>	<u>Description</u>	<u>Part Number</u>
1	Shuttle Control Kit	1386173

V. PROCEDURE

1. Install a piggyback PWA (4051085) on the new shield assembly (4120029-AC) as shown in Figure 1.
2. Remove the old shield assembly and install the new one.
3. Connect wires as shown below:
(Older PWA's may require the removal of R38 and the holes relabeled E12 and E13 as shown in Figure 2.).

AMPEX**PROFESSIONAL
AUDIO DIVISION****FIELD ENGINEERING BULLETIN**REF. NO. 60829
MODEL BD-8206-04
ATR-100
PAGE 2 OF 6
SUPERSEDES
DATE OF ISSUE 6/82

TITLE: SHUTTLE SPEED CONTROL KIT

V. PROCEDURE-continuedPIGGYBACK PWA-4051086PWA-4050860

CONNECT

TO

E1

E9

E2

E10

E3

E11

E4

E12

E5

E13

E6

E6

E7

E7

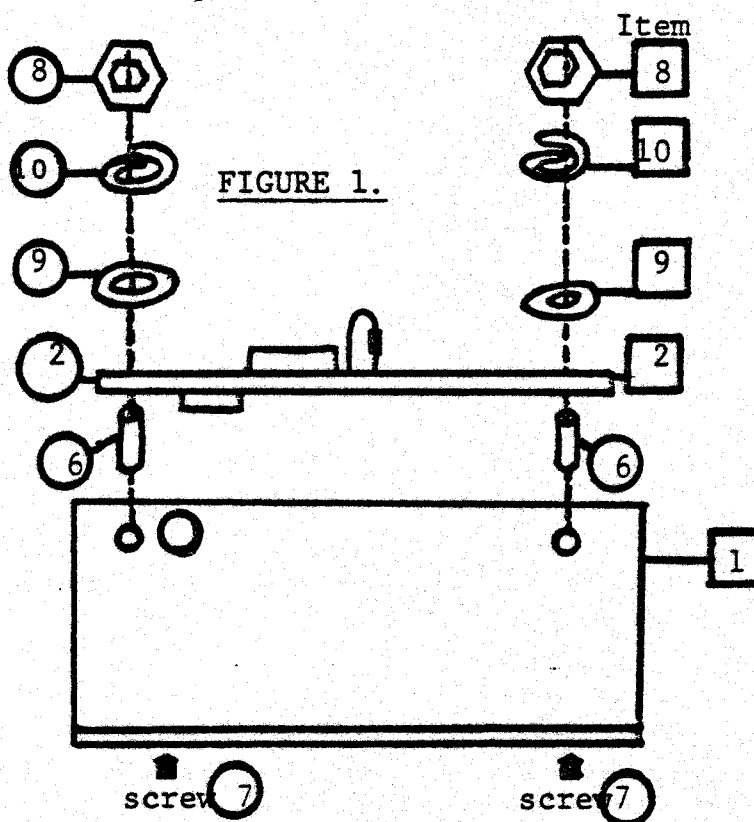
E8

E8

4. This completes the installation of the kit.

VI. ALIGNMENT PROCEDURE

- A. Load a reel of tape on the machine and arm machine.
- B. Adjust the shuttle control full CW position.
- C. Depress fast forward and slowly adjust shuttle control CCW until desired speed is established.
- D. Depress fast rewind and check speed.



Remove old Shield Assembly and install new assembly.

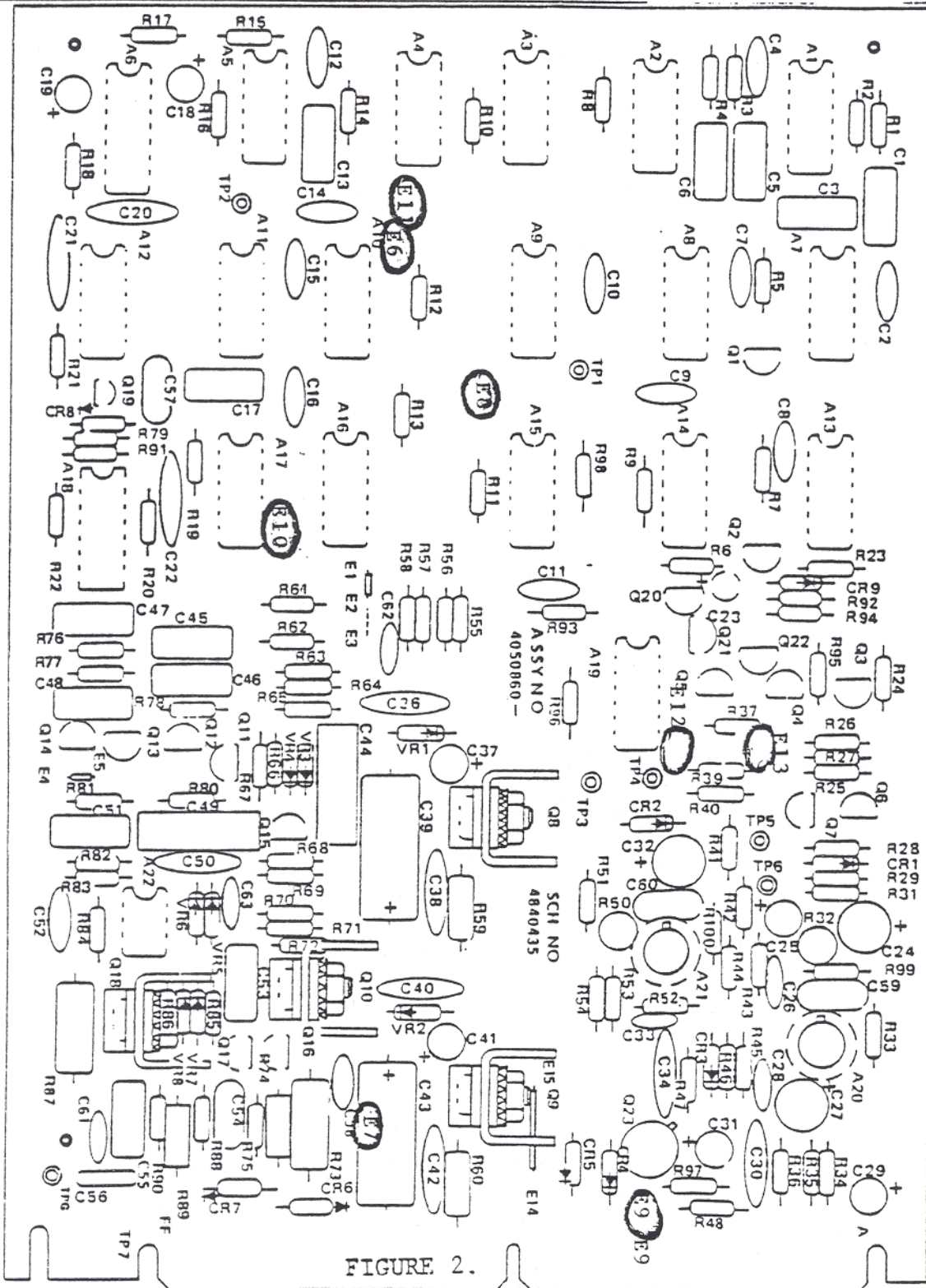
NOTE:

R38 (on some PWA's) should be removed and holes labeled E12 and E13 as per drawing 4050860.

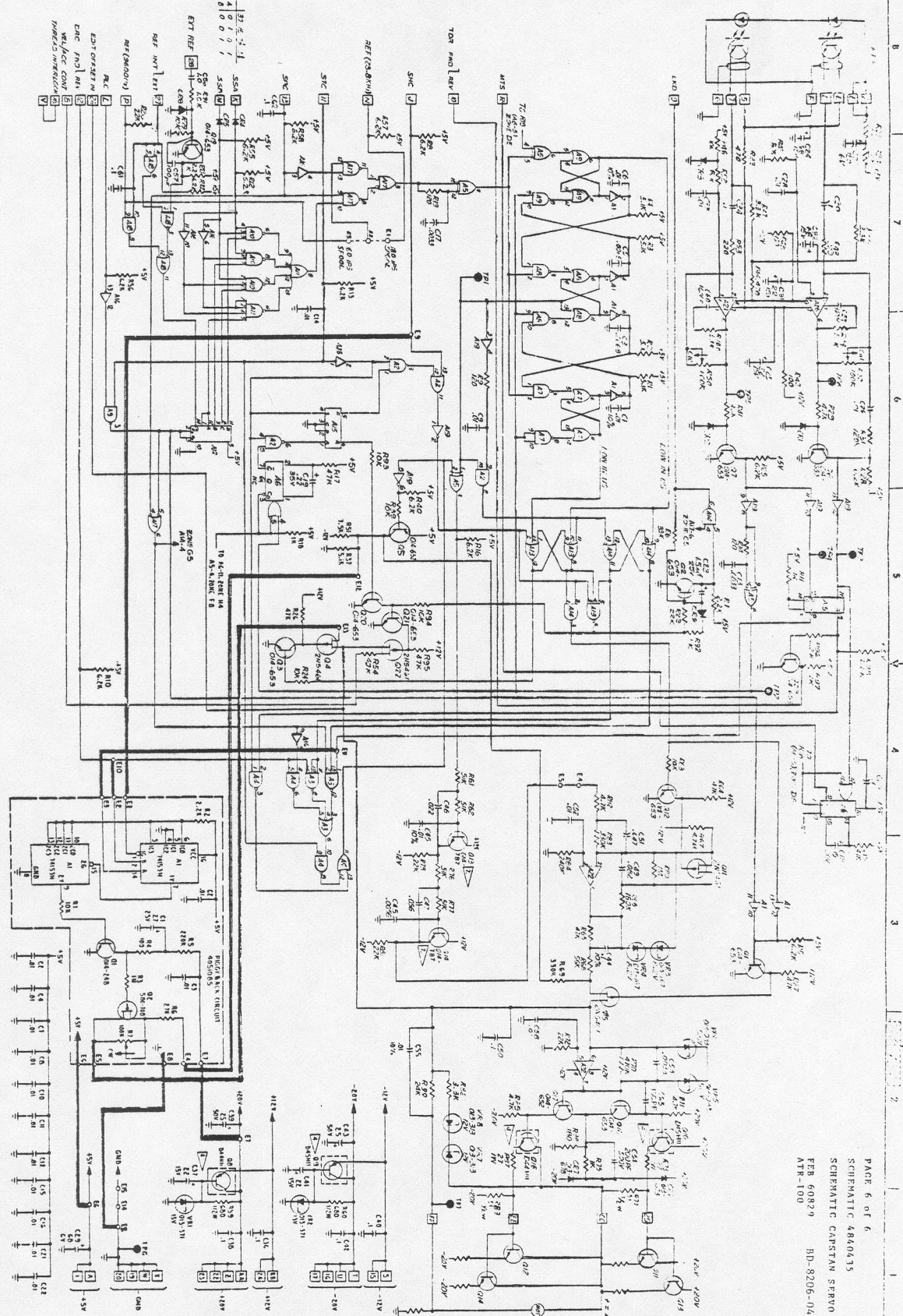
FIELD ENGINEERING BULLETIN

TITLE: SHUTTLE SPEED CONTROL KIT

60829
REF. NO. BD-8206-04
MODEL ATR-100
PAGE 4 OF 6
SUPERSEDES
DATE OF ISSUE 6/82



Assembly No. 4050860. Capstan Servo PWA, No. 8



- NOTES: UNLESS OTHERWISE SPECIFIED
1. CAPACITIVE VALUES ARE IN MICROFARADS, MM.
 2. RESISTIVE VALUES ARE IN OHMS, UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED.
 4. ALL LOGIC INPUT LEVELS ARE LOW LEVEL.
 5. P.M.A. IS 4850665-02.
- PART NO. 01-842 MAY BE SUBSTITUTED.

INTEGRATED CIRCUIT LIST

REFERENCE DESIGNATION	MANUFACTURER	PIN	FUNCTION	GROUND
4.1.1.1.1	586-075	7100		7
4.1.1.1.2	586-076	7100		7
4.1.1.1.3	586-077	7100		7
4.1.1.1.4	586-078	7100		7
4.1.1.1.5	586-079	7100		7
4.1.1.1.6	586-080	7100		7
4.1.1.1.7	586-081	7100		7
4.1.1.1.8	586-082	7100		7
4.1.1.1.9	586-083	7100		7
4.1.1.1.10	586-084	7100		7
4.1.1.1.11	586-085	7100		7
4.1.1.1.12	586-086	7100		7
4.1.1.1.13	586-087	7100		7
4.1.1.1.14	586-088	7100		7
4.1.1.1.15	586-089	7100		7
4.1.1.1.16	586-090	7100		7
4.1.1.1.17	586-091	7100		7
4.1.1.1.18	586-092	7100		7
4.1.1.1.19	586-093	7100		7
4.1.1.1.20	586-094	7100		7
4.1.1.1.21	586-095	7100		7
4.1.1.1.22	586-096	7100		7
4.1.1.1.23	586-097	7100		7
4.1.1.1.24	586-098	7100		7
4.1.1.1.25	586-099	7100		7
4.1.1.1.26	586-100	7100		7