

The following Manual Change Information is for the 7T11A only and constitutes the difference between the 7T11A and the 7T11.

The remainder of this Instruction Manual, including any Manual Change Information found at the rear, is for the 7T11 and those portions of the 7T11A that are identical to the 7T11.

A complete 7T11A Instruction Manual will be sent to you when available.

Please send change of address information to:

Tektronix, Inc.
P.O. Box 500
Beaverton, Oregon
97077

Attn: Lab Scopes
Delivery Station 39-327

TEKTRONIX®

This insert is provided as a supplement to the instruction manual furnished with this instrument. The information given in this insert supersedes that given in the manual.

**7T11A
SAMPLING
SWEEP UNIT**

MODIFICATION INSERT

C1/485

DESCRIPTION

Product Group 42

Effective at serial number B020100

NOTE: If the 7T11A is to be used with a 7S11 Sampling Unit whose serial number is below B101609, C471 in the 7S11 must be changed to 200pF.

REPLACEABLE ELECTRICAL PARTS LIST CHANGES

Make the following changes to the LOGIC ASSEMBLY Replaceable Electrical Parts List.

CHANGE TO:

	670-1118-09	CKT BOARD ASSY:LOGIC
C592	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C619	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C620	281-0826-00	CAP.,FXD,CER DI:2200PF,5%,100V
C624	281-0762-00	CAP.,FXD,CER DI:27PF,20%,100V
C628	281-0579-00	CAP.,FXD,CER DI:22PF,5%,500V
C630	281-0809-00	CAP.,FXD,CER DI:200PF,5%,100V
C636	281-0797-00	CAP.,FXD,CER DI:15PF,10%,100V
C674	281-0763-00	CAP.,FXD,CER DI:47PF,10%,100V
C675	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
CR672	152-0322-00	SEMICON DVC,DI:SCHOTTKY,SI,15V
CR682	152-0322-00	SEMICON DVC,DI:SCHOTTKY,SI,15V
R370	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R503	315-0563-00	RES.,FXD,CMPSN:56K OHM,5%,0.25W
R504	317-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.125W
R571	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R572	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R576	315-0105-00	RES.,FXD,CMPSN:1M OHM,5%,0.25W
R586	315-0511-00	RES.,FXD,CMPSN:510 OHM,5%,0.25W
R587	315-0223-00	RES.,FXD,CMPSN:22K OHM,5%,0.25W
R592	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R596	315-0623-00	RES.,FXD,CMPSN:62K OHM,5%,0.25W
R608	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R611	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W

DESCRIPTION

R613	315-0304-00	RES.,FXD,CMPSN:300K OHM,5%,0.25W
R615	315-0106-00	RES.,FXD,CMPSN:10M OHM,5%,0.25W
R619	315-0106-00	RES.,FXD,CMPSN:10M OHM,5%,0.25W
R621	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R622	315-0752-00	RES.,FXD,CMPSN:7.5K OHM,5%,0.25W
R623	315-0104-00	RES.,FXD,CMPSN:100K OHM,5%,0.25W
R624	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R625	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R626	315-0512-00	RES.,FXD,CMPSN:5.1K OHM,5%,0.25W
R628	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R629	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R631	315-0512-00	RES.,FXD,CMPSN:5.1K OHM,5%,0.25W
R634	315-0302-00	RES.,FXD,CMPSN:3K OHM,5%,0.25W
R636	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R642	315-0273-00	RES.,FXD,CMPSN:27K OHM,5%,0.25W
R643	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R646	315-0243-00	RES.,FXD,CMPSN:24K OHM,5%,0.25W
R650	315-0202-00	RES.,FXD,CMPSN:2K OHM,5%,0.25W
R651	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R658	321-0289-00	RES.,FXD,FILM:10K OHM,1%,0.125W
R662	315-0363-00	RES.,FXD,CMPSN:36K OHM,5%,0.25W
R663	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R664	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R665	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R666	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R669	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R670	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R671	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R672	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R675	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R683	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R684	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R691	315-0393-00	RES.,FXD,CMPSN:39K OHM,5%,0.25W
R692	315-0273-00	RES.,FXD,CMPSN:27K OHM,5%,0.25W
R693	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R694	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R714	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W

DESCRIPTION

ADD:

C2	281-0759-00	CAP.,FXD,CER DI:22PF,5%,500V
C6	281-0759-00	CAP.,FXD,CER DI:22PF,5%,500V
C676	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
CR4	152-0141-02	SEMICON DVC,DI:SW,SI,30V,150MA
CR5	152-0322-02	SEMICON DVC,DI:SCHOTTKY,SI,15V
Q1	151-0325-00	TRANSISTOR:PNP,SI
Q2	151-0188-00	TRANSISTOR:PNP,SI
Q3	151-0190-00	TRANSISTOR:NPN,SI
Q4	151-0190-00	TRANSISTOR:NPN,SI
Q5	151-0190-00	TRANSISTOR:NPN,SI
Q6	151-0188-00	TRANSISTOR:PNP,SI
Q8	151-0219-00	TRANSISTOR:PNP,SI
R1	315-0821-00	RES.,FXD,CMPSN:820 OHM,5%,0.25W
R2	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R3	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R4	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R5	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R6	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R7	321-0277-00	RES.,FXD,FILM:7.5K OHM,1%,0.125W
R8	321-0361-00	RES.,FXD,FILM:56.2K OHM,1%,0.125W
R9	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R20	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R630	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W

Make the following changes to the TIMING BOARD ASSEMBLY Replaceable Electrical Parts List.

CHANGE TO:

	670-1119-14	CKT BOARD ASSY:TIMING
C221	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C230	281-0773-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C232	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V
C234	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V
C301	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V
C308	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C312	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V
C320	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V
C324	281-0759-00	CAP.,FXD,CER DI:22PF,5%,500V
C348	281-0762-00	CAP.,FXD,CER DI:27PF,20%,100V
C349	281-0773-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C356	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V

DESCRIPTION

C358	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C359	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C414	281-0774-00	CAP.,FXD,CER DI:0.022UF,20%,100V
C416	281-0775-00	CAP.,FXD,CER DI:0.1UF,20%,50V
C421	281-0774-00	CAP.,FXD,CER DI:0.022UF,20%,100V
C424	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C451	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C455	281-0775-00	CAP.,FXD,CER DI:0.1UF,20%,50V
C456	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C509	281-0773-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C512	281-0861-00	CAP.,FXD,CER DI:270PF,5%,50V
C518	281-0861-00	CAP.,FXD,CER DI:270PF,5%,50V
C555	281-0861-00	CAP.,FXD,CER DI:270PF,5%,50V
C566	281-0798-00	CAP.,FXD,CER DI:51PF,1%,100V
C573	281-0775-00	CAP.,FXD,CER DI:0.1UF,20%,50V
C604	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
R214	315-0302-00	RES.,FXD,CMPSN:3K OHM,5%,0.25W
R217	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R222	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R224	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R226	315-0392-00	RES.,FXD,CMPSN:3.9K OHM,5%,0.25W
R232	315-0563-00	RES.,FXD,CMPSN:56K OHM,5%,0.25W
R233	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R234	315-0623-00	RES.,FXD,CMPSN:62K OHM,5%,0.25W
R241	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R242	315-0363-00	RES.,FXD,CMPSN:36K OHM,5%,0.25W
R243	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R284	315-0511-00	RES.,FXD,CMPSN:510 OHM,5%,0.25W
R286	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R294	315-0683-00	RES.,FXD,CMPSN:68K OHM,5%,0.25W
R296	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R301	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R302	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R304	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R308	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R320	315-0392-00	RES.,FXD,CMPSN:3.9K OHM,5%,0.25W
R321	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R324	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R326	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R327	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R348	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R351	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R353	315-0100-00	RES.,FXD,CMPSN:10 OHM,5%,0.25W
R355	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R356	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R357	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W

DESCRIPTION

R358	315-0822-00	RES.,FXD,CMPSN:8.2K OHM,5%,0.25W
R359	315-0471-00	RES.,FXD,CMPSN:470 OHM,5%,0.25W
R361	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R363	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R365	315-0473-00	RES.,FXD,CMPSN:47K OHM,5%,0.25W
R366	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R401	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R402	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R403	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R404	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R405	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R406	315-0752-00	RES.,FXD,CMPSN:7.5K OHM,5%,0.25W
R408	315-0183-00	RES.,FXD,CMPSN:18K OHM,5%,0.25W
R409	315-0393-00	RES.,FXD,CMPSN:39K OHM,5%,0.25W
R411	315-0243-00	RES.,FXD,CMPSN:24K OHM,5%,0.25W
R412	315-0822-00	RES.,FXD,CMPSN:8.2K OHM,5%,0.25W
R415	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R422	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R424	315-0202-00	RES.,FXD,CMPSN:2K OHM,5%,0.25W
R433	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R434	315-0433-00	RES.,FXD,CMPSN:43K OHM,5%,0.25W
R437	315-0393-00	RES.,FXD,CMPSN:39K OHM,5%,0.25W
R438	315-0512-00	RES.,FXD,CMPSN:5.1K OHM,5%,0.25W
R439	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R442	315-0224-00	RES.,FXD,CMPSN:220K OHM,5%,0.25W
R443	315-0274-00	RES.,FXD,CMPSN:270K OHM,5%,0.25W
R445	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R452	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R456	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R458	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R464	315-0243-00	RES.,FXD,CMPSN:24K OHM,5%,0.25W
R501	315-0104-00	RES.,FXD,CMPSN:100K OHM,5%,0.25W
R502	315-0913-00	RES.,FXD,CMPSN:91K OHM,5%,0.25W
R511	315-0335-00	RES.,FXD,CMPSN:3.3M OHM,5%,0.25W
R512	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R514	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R516	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R518	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R523	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R526	315-0513-00	RES.,FXD,CMPSN:51K OHM,5%,0.25W
R528	315-0104-00	RES.,FXD,CMPSN:100K OHM,5%,0.25W

DESCRIPTION

R541	315-0273-00	RES.,FXD,CMPSN:77K OHM,5%,0.25W
R542	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R543	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R544	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R546	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R547	315-0271-00	RES.,FXD,CMPSN:270 OHM,5%,0.25W

R548	315-0302-00	RES.,FXD,CMPSN:3K OHM,5%,0.25W
R549	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R551	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R552	315-0473-00	RES.,FXD,CMPSN:47K OHM,5%,0.25W
R555	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R559	315-0104-00	RES.,FXD,CMPSN:100K OHM,5%,0.25W

R561	315-0273-00	RES.,FXD,CMPSN:77K OHM,5%,0.25W
R562	315-0363-00	RES.,FXD,CMPSN:36K OHM,5%,0.25W
R568	315-0682-00	RES.,FXD,CMPSN:6.8K OHM,5%,0.25W
R569	315-0682-00	RES.,FXD,CMPSN:6.8K OHM,5%,0.25W
R572	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R574	315-0205-00	RES.,FXD,CMPSN:2M OHM,5%,0.25W

R603	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R734	315-0332-00	RES.,FXD,CMPSN:3.3K OHM,5%,0.25W
R821	315-0100-00	RES.,FXD,CMPSN:10 OHM,5%,0.25W
R824	315-0100-00	RES.,FXD,CMPSN:10 OHM,5%,0.25W
R826	315-0100-00	RES.,FXD,CMPSN:10 OHM,5%,0.25W

R827	315-0100-00	RES.,FXD,CMPSN:10 OHM,5%,0.25W
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ADD:

CR364	152-0141-02	SEMICON DVC,DI:SW,SI,30V,150MA
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R364	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R368	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W

REMOVE:

CR368	152-0141-02	SEMICON DVC,DI:SW,SI,30V,150MA
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R362	317-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.125W
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DESCRIPTION

Make the following changes to the TRIGGER ASSEMBLY Replaceable Electrical Parts List.

CHANGE TO:

	670-1120-06	CKT BOARD ASSY:TRIGGER
C14	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C20	281-0812-00	CAP.,FXD,CER DI:1000PF,10%,100V
C25	281-0823-00	CAP.,FXD,CER DI:470PF,10%,50V
C33	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C48	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C78	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C108	281-0760-00	CAP.,FXD,CER DI:22PF,10%,100V
C111	281-0763-00	CAP.,FXD,CER DI:47PF,10%,100V
C114	281-0814-00	CAP.,FXD,CER DI:100PF,10%,100V
C131	281-0762-00	CAP.,FXD,CER DI:27PF,20%,100V
C127	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C137	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C140	283-0432-00	CAP.,FXD,CER DI:51PF,5%,50V
C144	281-0767-00	CAP.,FXD,CER DI:330PF,20%,100V
C163	281-0814-00	CAP.,FXD,CER DI:100PF,10%,100V
C171	281-0762-00	CAP.,FXD,CER DI:27PF,20%,100V
C178	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100
C182	281-0759-00	CAP.,FXD,CER DI:22PF,10%,100V
C186	281-0762-00	CAP.,FXD,CER DI:27PF,20%,100V
C187	281-0811-00	CAP.,FXD,CER DI:10PF,10%,100V
C191	281-0773-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C811	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C813	281-0773-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C816	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
C817	283-0253-00	CAP.,FXD,CER DI:0.01UF,10%,100V
CR132	152-0322-00	SEMICON DVC,DI:SCHOTTKY,SI,15V
R11	315-0242-00	RES.,FXD,CMPSN:2.4K OHM,5%,0.25W
R16	315-0752-00	RES.,FXD,CMPSN:7.5K OHM,5%,0.25W
R17	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R18	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R25	315-0471-00	RES.,FXD,CMPSN:470 OHM,5%,0.25W
R27	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R32	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R48	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R61	307-0987-00	RESISTOR:51 OHM,5%,0.125W,CHIP
R62	307-0987-00	RESISTOR:51 OHM,5%,0.125W,CHIP
R72	307-0987-00	RESISTOR:51 OHM,5%,0.125W,CHIP
R77	307-0987-00	RESISTOR:51 OHM,5%,0.125W,CHIP

DESCRIPTION

R79	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R92	317-0131-00	RES.,FXD,CMPSN:130 OHM,5%,0.125W
R104	315-0433-00	RES.,FXD,CMPSN:43K OHM,5%,0.25W
R105	315-0912-00	RES.,FXD,CMPSN:9.1K OHM,5%,0.25W
R108	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R109	315-0912-00	RES.,FXD,CMPSN:9.1K OHM,5%,0.25W
R111	315-0682-00	RES.,FXD,CMPSN:6.8K OHM,5%,0.25W
R113	315-0432-00	RES.,FXD,CMPSN:4.3K OHM,5%,0.25W
R114	315-0182-00	RES.,FXD,CMPSN:1.8K OHM,5%,0.25W
R116	315-0242-00	RES.,FXD,CMPSN:2.4K OHM,5%,0.25W
R117	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R118	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R129	315-0100-00	RES.,FXD,CMPSN:10 OHM,5%,0.25W
R131	315-0472-00	RES.,FXD,CMPSN:4.7K OHM,5%,0.25W
R137	315-0432-00	RES.,FXD,CMPSN:4.3K OHM,5%,0.25W
R147	315-0271-00	RES.,FXD,CMPSN:270 OHM,5%,0.25W
R148	315-0151-00	RES.,FXD,CMPSN:150 OHM,5%,0.25W
R149	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R157	315-0271-00	RES.,FXD,CMPSN:270 OHM,5%,0.25W
R158	315-0151-00	RES.,FXD,CMPSN:150 OHM,5%,0.25W
R159	315-0202-00	RES.,FXD,CMPSN:2K OHM,5%,0.25W
R164	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R165	315-0271-00	RES.,FXD,CMPSN:270 OHM,5%,0.25W
R167	315-0182-00	RES.,FXD,CMPSN:1.8K OHM,5%,0.25W
R171	315-0622-00	RES.,FXD,CMPSN:6.2K OHM,5%,0.25W
R172	315-0303-00	RES.,FXD,CMPSN:30K OHM,5%,0.25W
R174	315-0162-00	RES.,FXD,CMPSN:1.6K OHM,5%,0.25W
R178	315-0203-00	RES.,FXD,CMPSN:20K OHM,5%,0.25W
R182	315-0103-00	RES.,FXD,CMPSN:10K OHM,5%,0.25W
R184	315-0751-00	RES.,FXD,CMPSN:750 OHM,5%,0.25W
R185	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R186	315-0751-00	RES.,FXD,CMPSN:750 OHM,5%,0.25W
R187	315-0330-00	RES.,FXD,CMPSN:33 OHM,5%,0.25W
R191	315-0102-00	RES.,FXD,CMPSN:1K OHM,5%,0.25W
R192	315-0107-00	RES.,FXD,CMPSN:100M OHM,5%,0.25W
R194	315-0153-00	RES.,FXD,CMPSN:15K OHM,5%,0.25W
R811	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W
R817	315-0101-00	RES.,FXD,CMPSN:100 OHM,5%,0.25W

Make the following changes to the INTERFACE BOARD ASSEMBLY Replaceable Electrical Parts List.

CHANGE TO:

670-1121-05	CKT BOARD ASSY:INTERFACE
L804	108-0538-00
	COIL,FXD,RF:2.7UH

DESCRIPTION

TEXT CHANGES

Circuit Description, page 3-15

Replace the section titled **Blanking** with the following text.

Blanking

Four types of blanking are provided in the 7T11A as well as a special purpose blanking circuit to make the 7T11A compatible with the Tektronix 7854 Oscilloscope. The four types of blanking are: Interdot, Overrun, Real Time Retrace, and Slow Ramp Retrace (see Fig. 3-11A). The first two types, Interdot and Overrun, are used during both real and equivalent time sampling. Real Time Retrace blanking is used during real-time operation while Slow Ramp Retrace blanking is used during equivalent-time sampling.

The purpose of Interdot blanking is to blank the CRT until the voltages representing the latest TTH and vertical signal sample are stored in their respective memories. Figure 3-3 shows that during real-time operation, Interdot blanking occurs at the time a strobe pulse is delivered to the vertical unit and the horizontal memory is gated on. Figure 3-9 shows that during equivalent-time operation, Interdot blanking starts when the trigger TD goes to its high state and ends when the horizontal memory gating pulse ends.

Overrun blanking prevents the display of a dot if either of the push-pull outputs of the Horizontal Amplifier exceeds ± 5 volts. This prevents display of undesirable parts of the sweep.

Both Real-Time Retrace and Slow Ramp Retrace blanking prevent the user from seeing the retrace portion of the sweep. Retrace blanking keeps the CRT blanked from the time the sweep ends until a new sweep starts.

The logic shown in Figure 3-11A includes a peak detector. At normal trigger repetition rates the peak detector delivers a signal that permits normal operation of all four types of blanking. If a period of more than one or two seconds elapses between triggers, the output of the peak detector is lost and all blanking is disabled.

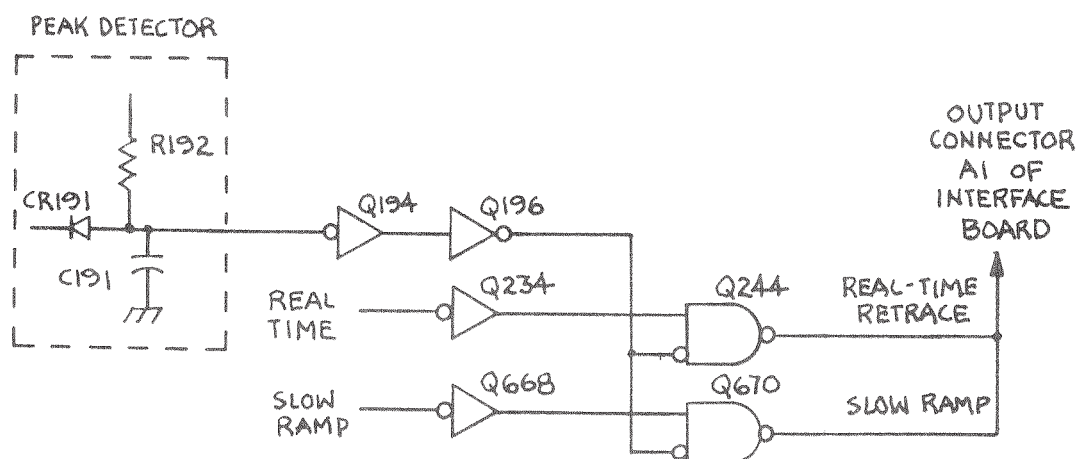


Fig. 3-11A. 7T11A Blanking logic.

DESCRIPTION

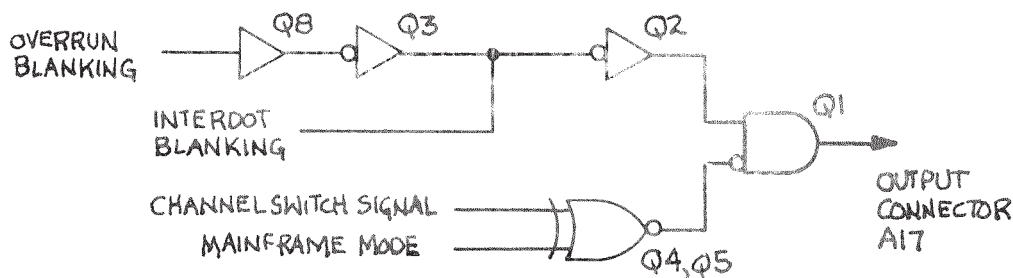


Fig. 3-11B. 7T11A Blanking logic for the 7854 oscilloscope.

No sweep is present in the absence of triggers and if the CRT is blanked, the beam cannot be located using the oscilloscope beam finder. As explained above, blanking is disabled if more than a couple of seconds elapses between triggers and the beam finder will then function.

The 7854 oscilloscope requires an additional blanking signal from the 7T11A to be used by its External Z-Axis circuit (see Fig. 3-11B). It also requires an end-of-sweep pulse which is derived from the blanking signal provided by the 7T11A at output connector A1. The 7854 provides inputs to the special blanking circuit to ensure that the 7T11A only causes the CRT to be blanked during its allotted display time.

Circuit Description, page 3-43

Add the following text just before the section titled **MAN and EXT INPUT SCAN**.

7854 Blanking

Additional blanking circuitry is provided by the 7T11A to make it compatible with the Tektronix 7854 Oscilloscope. The circuit consists of Q1 through Q8 with their associated components and operates as follows:

Until Q368 receives a trigger signal, its base and emitter are held high by pin 6 of U110B and Q196 in the Trigger Holdoff circuit. When a trigger signal is received by Q196, it enables Q368 by pulling its emitter low. Q368 then drives Q2 to provide a positive CRT blanking signal at output connector A17. The CRT blanking signal will remain high at A17 until Q368 is turned off.

Blanking can also occur when Q8 is turned on by the Horizontal Amplifier circuit. The emitter of Q8 is connected to R671 at the output of the Horizontal Amplifier and is biased on whenever the Horizontal Amplifier's output exceeds +5 volts. Q8 then drives Q3, Q2, and Q1 to provide a positive blanking level at output connector A17. The purpose of this blanking configuration is to keep undesirable portions of the sweep from being displayed on the CRT.

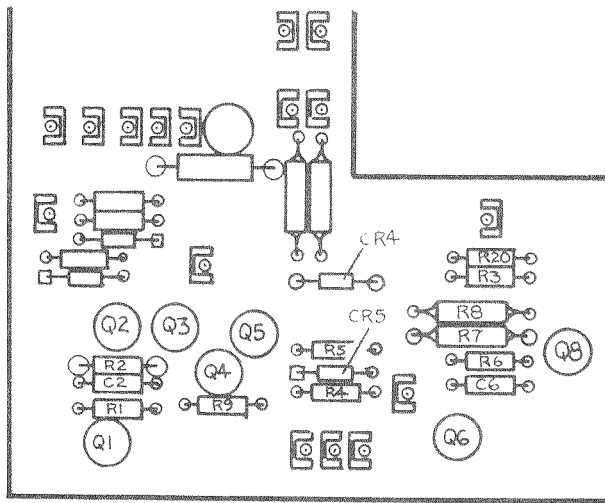
Q4 and Q5 give the mainframe control over when blanking can occur by switching Q1 on or off. Blanking can only occur when either of these transistors is turned on by the mainframe's control logic through interface connector B7 or A16. This ensures that the 7T11A can only cause CRT blanking during its allotted display time.

Q6 inverts the signal at output connector A1 to provide a positive gate pulse to the mainframe through output connector B4 at the end of each 7T11A sweep.

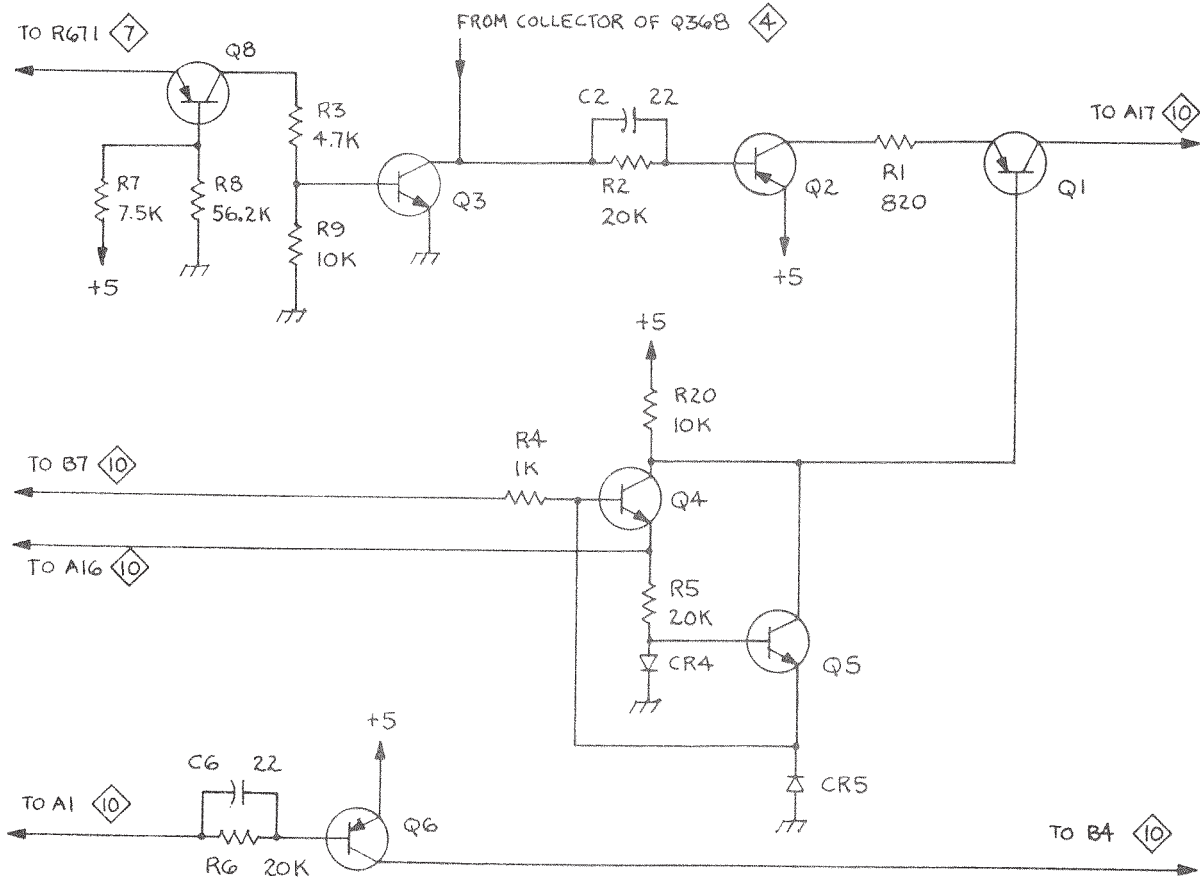
DESCRIPTION

DIAGRAM CHANGES

The following illustration shows the portion of the new Logic board containing the new blanking circuit.



The following diagram is a schematic of the new blanking circuit added to the Logic board to make the 7T11A compatible with the 7854 Oscilloscope.



DESCRIPTION

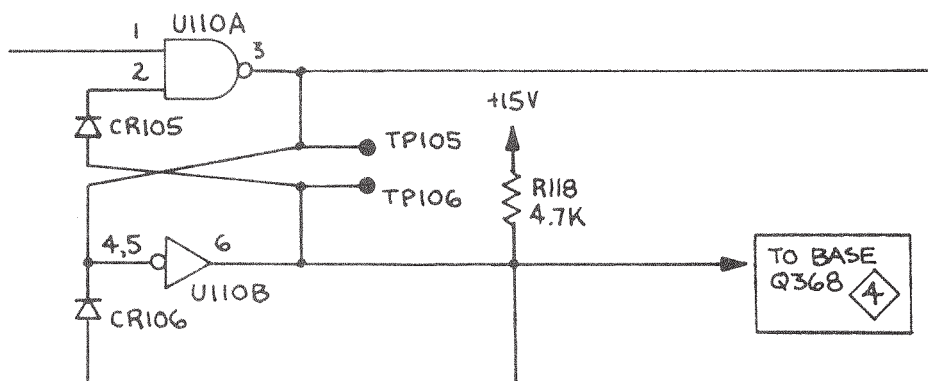
TRIGGER INPUT 1

Change R92 from 68 to 130 ohms.

TRIGGER & HOLDOFF 2

Change C182 from 47 to 22 pF.

Add an indicator arrow from pin 6 of U110B with the information "TO BASE OF Q368" 4.

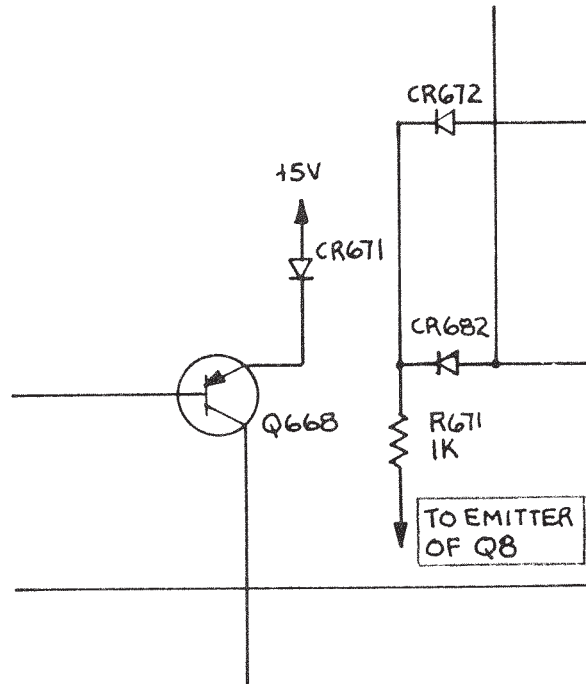


DESCRIPTION

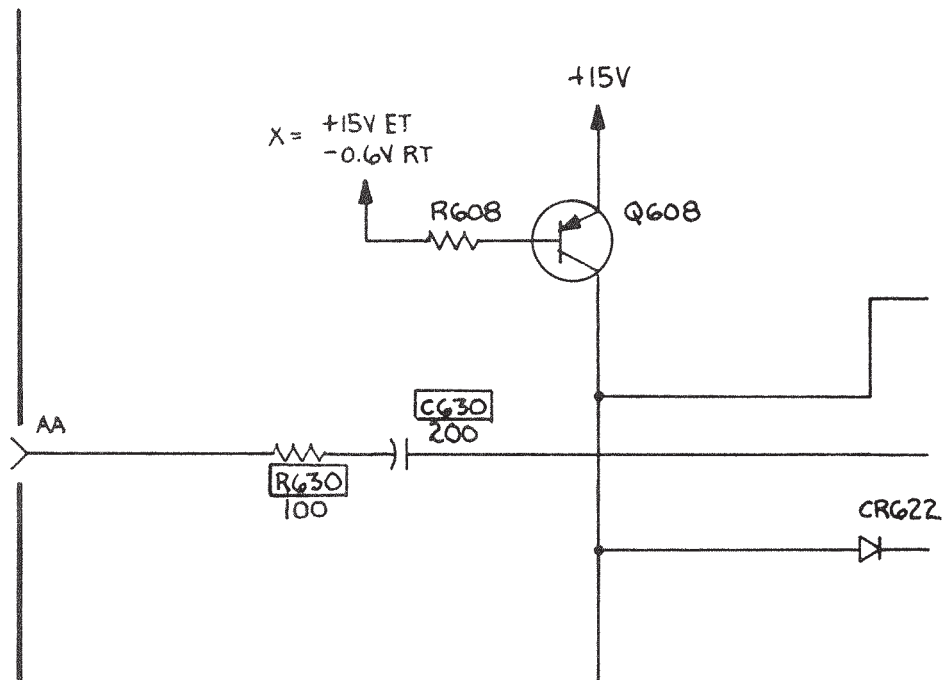
SLOW RAMP GENERATOR & OUTPUT AMPLIFIER 7

Change C636 from 18 to 15 pF.

Make the following corrections in the emitter circuit of Q668.



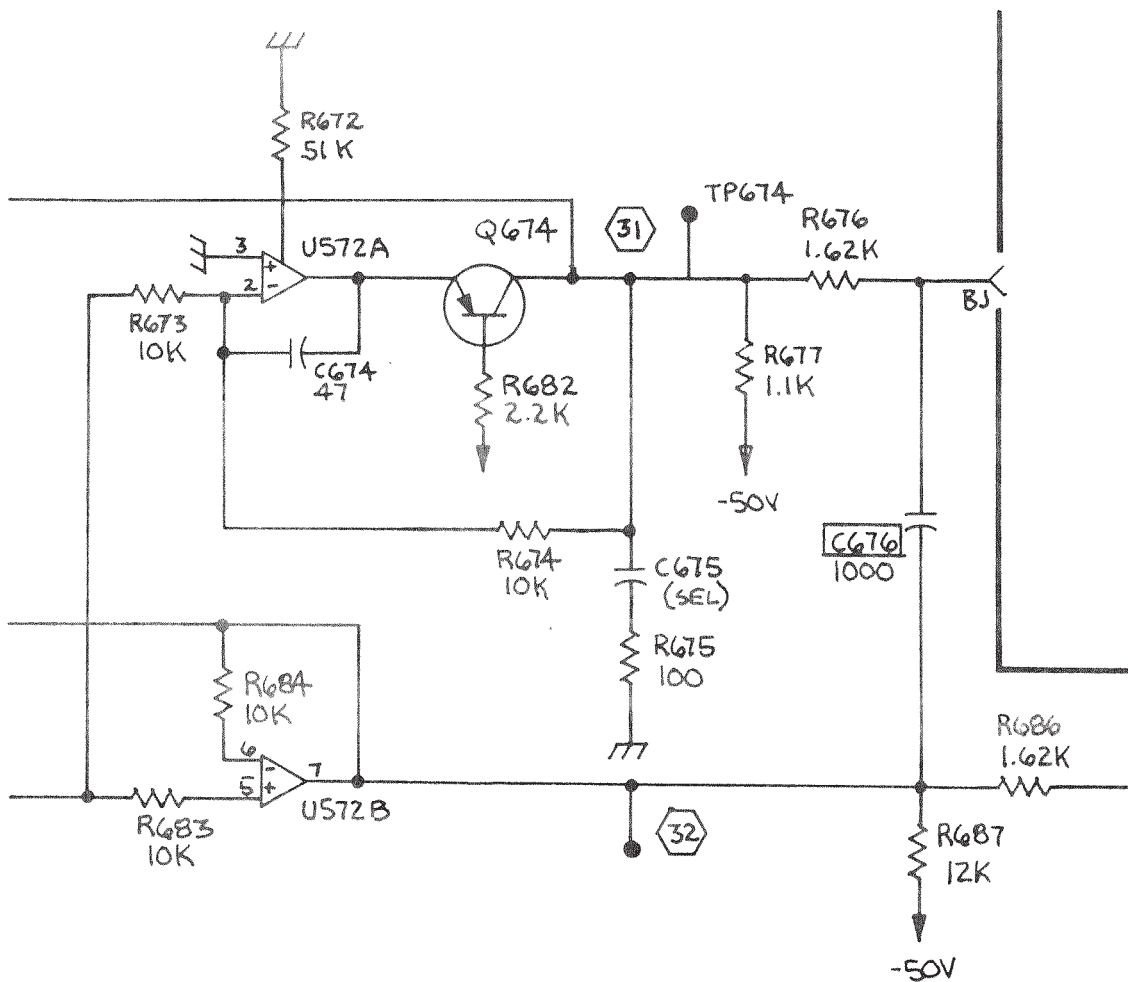
Add R630 in series with C630, which changes from 220 to 200 pF.



DESCRIPTION

SLOW RAMP GENERATOR & OUTPUT AMPLIFIER 7

Add C676 between R676 and R687.



DESCRIPTION

OUTPUT CONNECTORS 10

Make the indicated changes to connectors A1, A16, A17, B4, and B7 for the circuitry added to the LOGIC circuit board.

