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TRADE NAME: Triumph Models TC-900, TC-900A

SUPPLIER:

Custom Importing Company

1409-11 Murray Road, N. Kansas City 16, Mo.

TYPE SET:

10 Transistor Transceiver

POWER SUPPLY: 10.5 Volts DC

RATING:

6MA@10.5VDC (Receive, No Sig. Min. Vol.) 14MA@10.5VDC (Transmit, Unmodulated)

TUNING RANGE; Any one Citizens Band Channels 1 thru 22

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS-READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.

Best results will be obtained when adjusting A5, A7 and A8 if the antenna normally used is connected, and the unit is as nearly in the cabinet as possible.

Suggested Alignment Tools:

A1, A2, A3........GENERAL CEMENT #5000, 5003, 5066, 8271, 8272, 8276, 8277, 8290, 8609, 8722, 9150, 9298

WALSCO #2515, 2516, 2518, 2519, 2525, 2541

A4 thru A8......GENERAL CEMENT #8282, 8606, 8606-L, 9091

WALSCO #2526, 2541, 2542, 2543, 2544

RECEIVER ALIGNMENT

Connect DC VTVM across volume control

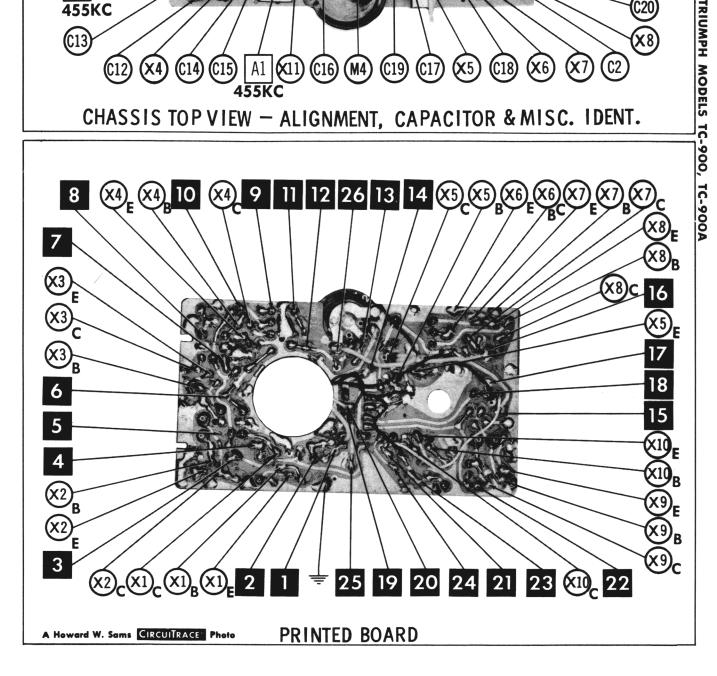
l			
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side to antenna terminal, low side to ground. Tune to 455KC (Unmod.)		Al, A2, A3	Adjust for maximum deflection.
High side to antenna terminal, low side to ground. Tune to Channel Frequency (Unmod.)		A4, A5	Adjust for maximum deflection.

TRANSMITTER ALIGNMENT

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES & REGULATIONS PART 19, SUBPART D, SECTION 19.71)

SPECIAL INSTRUCTIONS	INDICATOR	ADJUST	REMARKS
Connect antenna or dummy load.	RF Wattmeter or field strength meter	A6,A7	Key Transmitter. Adjust for maximum output.
	"	A8	"

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



PARTS LIST AND DESCRIPTION

SPRAGUE PART No.

MALLORY PART No.

ELMENCO PART No.

CORNELL-DUBILIER PART No.

CENTRALAB PART No.

AEROVOX PART No.

REMARKS

RATING

No.

CCD-300 CCD-050 CCD-050

REPLACEMENT DATA

FIXED CAPACITORS (cont)

TG-S10 107S-430 17G-S20 107S-420 107S-420

TA-120 GP220 TA-120 TA-120 TA-110 GP439 TA-110

CCD-202

H0552 L10V5 H0582 H0581 H0581 H0582 L1002 H0582 H0582 H0583 H0583 H0581 H0581 H0581

DM-103 DD-203 DD-203 DD-203 DD-203 DD-203 DD-203 DD-104 DD-104 DD-203 DD-104 DD

1775-01 1773-02 1775-02 1775-02 1775-02 1775-02 1775-01 1775-01 1775-02 1775-02 1775-03 1775-03 1775-03 1775-03

(.5)

CCD-390

DA-203

TTD-02

† Alternate Value.

(30) ‡ (10)

TA-110 GP430 TA-120 GP550 TA-120 TA-120 GP550 TA-120

TRANSISTORS

			REF	REPLACEMENT DATA	ITA		
Z Z	ORIG. TYPE	USE	DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	NOTES	
×	2SA 82	Receive Mixer	DS25	GE-1		PNP	
	2SA103DA +	Receive Mixer	DSZ5	ניש"ו		DND	
X2	2SA80	Receive Oscillator	DSS	145		AND	
¥3	2SA103DA 1	lst IF Amplifier	DS25	GE~1		PNP	
2	2SA101 +	1st IF Amplifler	DS25	GE-1		PNP	
X4	2SA12	2nd IF Amplifier	DS25	GE-1		PNP	
_	2SA101 +	2nd IF Amplifier	DS25	GE-1		FNF	
×	2SB75	Driver	DS26	GE-2	2N406	PNP.	. 1
	2SB171 +	Driver	DS26	GE-2	ZN406	PN P	
9X	HV~15	Bias Regulator	DS26	GE-2	IN2326		
	MA-23 †	Blas Regulator			007170	u.v.u	_
X7	2SB77	Output-Modulator	DS26	GE-2	2N408	FNF	-
	2SB172 +	Output-Modulator	DS26	GE-Z	ZN408	TAN	
X 8	2SB77	Output-Modulator	DSZ6	GE-2	20400	DIND	
	2SB172 +	Output-Modulator	DS26	GE-Z	ZN408	FINE	
8X	2SA 80	Transmit Oscillator	DS25	GE-1		FNF	
i	2SA103DA +	Transmit Oscillator				FNF	
X10	2SA246	Final Amplifier	DS25	GE-1		FNF	٦
† Us	↑ Used in Model TC~900A	rc~900A					

POWER RECTIFIERS & SIGNAL DIODES

	NOTES	Detector (Alternates INA4, IN34A, OA 70)
DIODES		
ECTIFIERS	SARKES TARZIAN PART No.	
RECTIF	RCA PART No.	
	ORIGINAL Part or Type No.	1N60
	CURRENT RATING (Measured)	
	ITEM No.	ΠX

COILS (RF-IF)

MALLORY PART No.

CTS-IRC PART No.

CLAROSTAT PART No.

CENTRALAB PART No.

TRIUMPH PART No.

RESIST-ANCE

USE

TEM No.

DX-VC

10K

Volume & Switch

R

REPLACEMENT DATA

CONTROLS
All wattages 1/2 watt, or less, unless otherwise listed.

-	-			REPLACE	REPLACEMENT DATA			
	TEM	asn		Merit	Miller	Stancor	Workman	NOTES
_	ġ		PART No.	PART No.	PART No.	PART No.	PART No.	
	3	Receiver Ant.	DX∽AA					
_	3	Receiver Osc.	DX-OSA					
_	ៗ	1st IF	DX-IN	BC-574				
_	3	2nd IF	DX-IS	BC575				
_	1.5	3rd IF	DX-OT	BC-576				
_	re	Transmit Osc.	DX-OA					
_	17	Final	DX-TA					
_	28	Ant. Load	DX-AL					Ø.
_						-		

ELECTROLYTIC CAPACITORS

	DAT	CMITAG			REPL	REPLACEMENT DATA	¥		
No.	CAP.	VOLT.	TRIUMPH PART No.	AEROVOX PART No.	CORNELL- DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
១១១	30	3333	VF306 VF306	PTT10 PTT10	NLW30-6 NLW30-6 NLW50-15	MT1-13 MT1-13 MT1-16	TT6X30 TT6X30	MLV30~6 MLV30~6 MLV50~15	TE-1092 TE-1092 TE-1133

FIXED CAPACITORS

	SPRAGUE PART No.	rG-S10 rG-S10 rG-S20
	MALLORY PART No.	TA-110 TA-110 TA-120
REPLACEMENT DATA	ELMENCO PART No.	
REPLACEA	CORNELL- DUBILIER PART No.	H05SI H05SI H05S2
	CENTRALAB PART No.	DM-103 DM-103 DA-203
	AEROVOX PART No.	TTD-01 TTD-01 TTD-02
	REMARKS	
	RATING	.01
-	N S	4.2.2

TRANSFORMER (DRIVER)

L	_	SNOT		REPL	REPLACEMENT DATA	ATA			
Ξž	TEX No.	RATIO	TRIUMPH	MERIT	STANCOR	STANCOR THORDARSON	TRIAD	NOTES	
	-R	. SEC.	PART No.	PARI NO.	PAKI No. PAKI No.	PAKI NO. TAKI NO.	TARI NO.		_
Ē	100	-	דוי-אַרו						

PARTS LIST AND DESCRIPTION (CONTINUED)

TRANSFORMER (AUDIO OUTPUT)

	REPLACEMENT DATA	Merit Stancor Thordarson Triad NOTES	PARI NO. PARI NO. PARI NO.			
		Triad	PAKI NO			
)	ATA	Thordarson	PAKI NO.			
	ACEMENT D	Stancor	PAKI NO.			
	REPL	Merit	PAKI NO.			
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		TRIUMPH	PAKI NO.	DX-MT		
		ANCE	SEC. 1	6 -8Ω	SEC.2	2006
		IMPEDANCE	PRI.	7007		
		No.		T2		

SPEAKER

		NOTES			
JI LANEN	REPLACEMENT DATA	TRIUMPH	PART No.	DX-S	
		TYPE	FIELD V. C. IMP.	08-9	
		=	SIZE FIE	2 1/4" PM	
		Z Z		SPI	

BATTERIES

TEM	VOLTAGE	ТВПИВН	BURC	URGESS	REPLACEMI	REPLACEMENT DATA	WALI	MALLORY	NOTES
		PART No.	A		∀	:.8	 Y.	8	
	$1\frac{1}{2}V$			930		1015		M-15R	7 Required

MISCELLANEOUS

M3 No.	PART NAME Crystal Crystal Saritch Antenna	PART No. DX-R7 DX-T7 DX-T7 DX-PT DX-CA	Receive (Channel 7 Only) Transmit (Channel 7 Only) Receive-Transmit (Spring-Loaded Slide Type) Telescoping
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CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

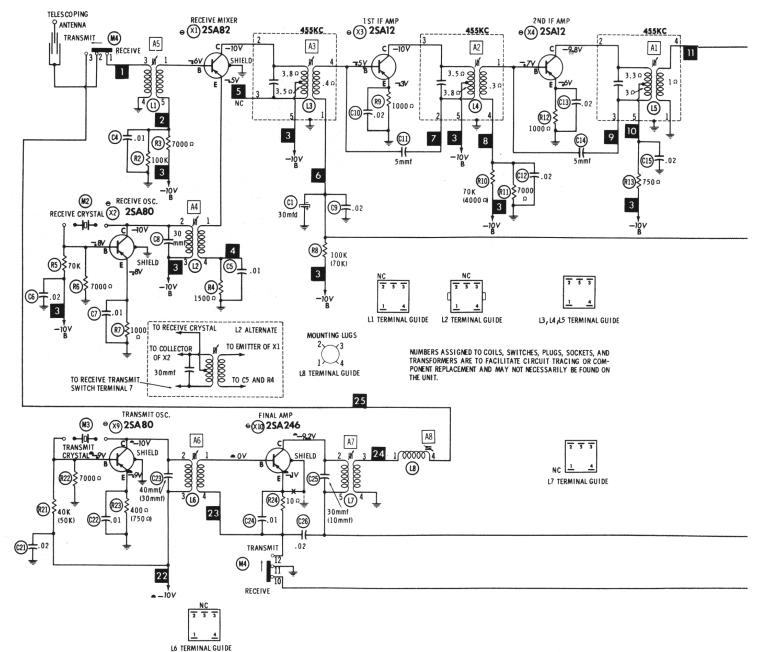
DESCRIPTION	Volume Metal
PART NO.	DX-SB DX-VCB DX-MC
NAME	Push Button Knob Case

WIRING DATA

222	-Pl
8259 (Stranded) Mir 8259 (Stranded) Mir No. 8499 Single Conduct 8498 Single Conduct	No. 7300-Series Spark No. 8661 (3/8 In.)
Use BELDEN	n Use BELDEN Use BELDEN
Coiled Microphone Cable	Ignition Noise Suppression Use BELDEN No. 7300-Series Spark-Plug Sets Bonding Strap Use BELDEN No. 8661 (3/8 In.)
	Coiled Microphone Cable Use BELDEN No. 8498 Single Conductor Shielded (Neoprene) 8498 Single Conductor Shielded (Vinyl)

CHASSIS—TOP VIEW RESISTOR & INDUCTOR IDENT.

(E)	R7 L2 R4 R2 L1 R3 L7 R16 L8 R24 L6 R23 R22 R21 T2 R25 R20 R13 R12 R14 L5 R1 R15 R17 T1 R18 R19	
	R13 R12 R14 L5 R1 R15 R17 T1 R18 R19	



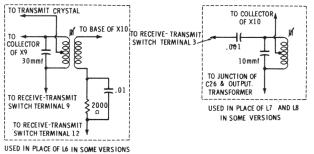
8 SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

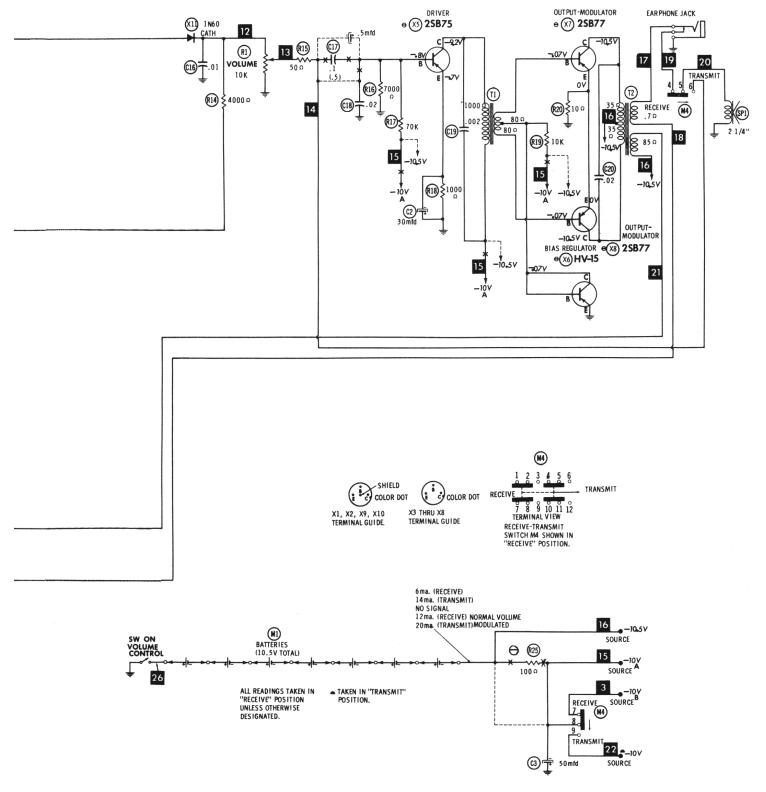
RESISTANCE MEASUREMENTS NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.

- DC voltage measurements taken with vacuum tube voltmeter.
 Socket connections or transistor terminals are shown as
- bottom views.
- Measured values are from socket pin or terminal to common ground.
 Nominal tolerance on component values makes possible a
- variation of ±15% in voltage and resistance readings.

 Volume control at maximum, no signal applied for voltage
- measurements.
- A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITRACE

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TRIUMPH MODELS TC-900, TC-900A