♦ THOMSON CONSUMER ELECTRONICSAudio/Communication Basic Service Data

3-5027 Additional Models: 3-5027ATC



Latin America After Sales

Indianapolis, IN 46290 U.S.A.

SERVICE DATA INDEX

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CAUTION: Modification or repair of this unit by unauthorized persons is a direct violation of FCC Rules Part 68.216 and could result in risk of electric shock. You are urged to contact a qualified factory authorized service facility for repairs.

SAFETY NOTICE USE ISOLATION TRANSFORMER WHEN SERVICING

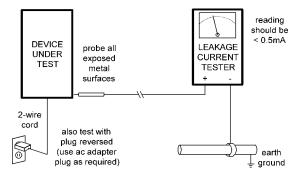
Components having special safety characteristics are identified by a (\triangle) on schematics and on the parts list in this Service Data and its bulletins. Before servicing this instrument, it is important that the service technician read and follow the "Safety Precautions" in the Basic Service Data.

SAFETY PRECAUTIONS

- Before returning the instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:
 - a. Be sure that no built-in protective devices are defective and/ or have been defeated during servicing. (1) Protective shields are provided on this instrument to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reassembling the instrument, be sure to put back in place all protective devices, including, but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage, and may expose themselves and others to possible injury.
 - b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) excessively wide cabinet ventilation slots, and (2) improperly fitted and/or incorrectly secured cabinet covers.
 - c. Leakage Cold Check With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each push button/customer control, exposed metal screws, metallized overlays and to each cable connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the AC switch in the off position.

d. Leakage Current Hot Check

On completely assembled instrument, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1492 (Section 67). Measure for current from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal or conductive parts of the instrument (antenna connections, handle bracket, metal cabinet, screwheads, metallic overlays, push-buttons, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING TO ANTENNA OR ACCESSORIES.

e. Interconnected Equipment AC Leakage Test

Avoid shock hazards. The instrument, accessory, or cable(s) to which this instrument is connected should have the applicable sections of the leakage resistance cold check and the leakage current hot check performed. Do not connect this instrument to an antenna, cable or accessory that exhibits excessive leakage currents.

- Read and comply with all caution and safety-related notes on or inside the instrument cabinet, and on the chassis.
- 3. **Design Alteration Warning** *Do not* alter or add to the mechanical or electrical design of this instrument. Design alterations and additions, including, but not limited to, circuit modifications and the addition of items such as auxiliary audio output connections, cables and accessories, etc., might alter the safety characteristics of this instrument and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and will make you, the servicer responsible for personal injury or property damage resulting therefrom.
- 4. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: (a) near sharp edges, (b) near thermally hot parts be sure that leads and components do not touch thermally hot parts, and (c) the AC supply. Always inspect in all areas for pinched, out-of-place, or frayed wiring. Do not change spacing between components and the printed-circuit board. Check AC power cord for damage.
- 5. Components, parts and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
- 6. PRODUCT SAFETY NOTICE Many electrical and mechanical parts have special safety-related characteristics, some of which are often not evident from visual inspection, nor can the protection they give be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified in this service data by a (A) on schematics and in the parts list. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part in this service data parts list might create shock, fire and/or other hazards. Product Safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current service literature.

REPLACEMENT PARTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

Approved Substitute Stock Numbers - Before ordering stock numbers in the part list, look for an approved substitute stock number in the current Price Schedule. This will minimize your service time and avoid ordering parts you already have in stock.

PRODUCT SAFETY NOTE: Components marked with a critical safety symbol have special characteristics important to safety. Before replacing any of these components, carefully read the PRODUCT SAFETY NOTICE in the basic service data. Do not degrade the safety of the set through improper servicing. Although assemblies as a whole may not be marked with a critical safety symbol, replacement of assemblies with other assemblies not approved may result in a safety hazard.

Warranty Status of Assemblies and Parts - All assemblies and components shown in this part list are eligible for warranty exchange or replacement except those with a dot shown to the left of the Description. Assemblies and components with a dot to the left of the Description are NOT eligible for warranty exchange or replacement.

Warranty replacement of cabinet parts requires the approval of a Thomson Consumer Electronics Field Service Manager.

Warranty Status and Specifications of assemblies and components are subject to change without notice. Consult the TCE Parts Pricing Microfiche for the latest warranty status information.

▲ Critical Safety Symbol

● Not Eligible For Warranty

@NOTE: When ordering components that are listed more than once in this part list, always adhere to the serial number application guidelines given in the description column. If a serial number application guideline is not given, always select the component with a value, rating, other specification or identification marking(s) that match those of the corresponding component in the instrument you are servicing.

Symbol	Stock	<u>Drawing</u>	<u>Description</u>	Symbol	Stock	<u>Drawing</u>	<u>Description</u>	
3-5027				JAC	41A26186	16502500100	JACK STEREO PHONE	
3-3021				JAC	8A34866	16503000300	JACK PHONE MONO	
CABIN	ET ASY			Q1	186645	11001094557	TRANSISTOR 2SC945P	
ADA	51075	14750250000	▲ADAPTER AC 5-1075D	Q2	186645	11001094557	TRANSISTOR 2SC945P	
BEL	1A34849	22231033000	BELT RUBBER	SWI	39A34868	17003040205	SWITCH PUSH	
CAB	98A34856	502100100GE01	CABINET BOTTOM	VR1	42A34863	12523100200	RESISTOR VAR VOLUME	
CAB	98A34855	501100100GE01	CABINET TOP	VR2	42A34864	12621500201	RESISTOR VAR	
COU	73A34848	22101000000	COUNTER (MODEL NO. M3A 130-120	MISCELLANEOUS				
DEC	73A34847	22010010100	DECK HY-9ZR-220-1	LAB	4A34827	POP35027	LABEL POP	
000	9A34857	521100100GE01	DOOR CASSETTE	USE	UC35027	UC35027	USE & CARE GUIDE	
000	9A34858	522100100GE01	DOOR BATTERY	3-5027ATC				
00	45A34850	36012652000	FOOT RUBBER	<u>3-30211</u>	<u> </u>			
HAN	78A34862	551100100GE01	HANDLE	CABIN	ET ASY			
(NO	43A34860	540003101GE01	KNOB CASSETTE	ADA	51075	14750250000	▲ADAPTER AC 5-1075D	
(NO	43A34861	540100100GE01	KNOB ADAPTERS CASS	BEL	1A34849	22231033000	BELT RUBBER	
.EN	6A34859	530100100GE01	LENS DOOR CASS	CAB	98A34856	502100100GE01	CABINET BOTTOM	
ИIC	62A34846	16010620300	MICROPHONE	CAB	98A34855	501100100GE01	CABINET TOP	
SPE SPR	95A34845 3A34853	15522530511 73000110050	SPEAKER 2 1/4" 8 OHM SPRING CONTACT +	COU	73A34848	22101000000	COUNTER (MODEL NO. M3A 130-120	
SPR	3A34851	73000110030	SPRING CONTACT +/-	DEC	73A34847	22010010100	DECK HY-9ZR-220-1	
SPR	3A34852	73000110040	SPRING CONTACT -	DOO	9A34858	522100100GE01	DOOR BATTERY	
PR	3A34854	73000410010	SPRING DOOR CASS	DOO	9A34857	521100100GE01	DOOR CASSETTE	
71 10	0/10/100/	70000110010	or kind book ones	F00	45A34850	36012652000	FOOT RUBBER	
ELECT	TRICAL C	COMPONENTS		HAN	78A34862	551100100GE01	HANDLE	
)1	16A20346	11702581700	DIODE 1N5817	KNO	43A34860	540003101GE01	KNOB CASSETTE	
)2	16A34871	117001N6000	DIODE 1N60	KNO	43A34861	540100100GE01	KNOB ADAPTERS CASS	
C1	33A34869	10500665000	IC AN6650	LEN	6A34859	530100100GE01	LENS DOOR CASS	
C1	33A34870	10500711201	IC UTC7112	MIC	62A34846	16010620300	MICROPHONE	
IAC	8A34867	16503000400	JACK PHONE MONO REMOTE	SPE	95A34845	15522530511	SPEAKER 2 1/4" 8 OHM	
AC	8A34865	16501300300	JACK DC	SPR	3A34851	73000110030	SPRING CONTACT +/-	

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REPLACEMENT PARTS (Continued)

Cromb -1	Stools	Stock Drawing Description	_	- Crombal	- Crowbal Stock	C	
Symbol	<u>Stock</u>	<u>Drawing</u>	<u>Description</u>		Symbol	Symbol Stock	<u>Symbol</u> <u>Stock</u> <u>Drawing</u>
SPR	3A34854	73000410010	SPRING DOOR CASS				
SPR	3A34852	73000110040	SPRING CONTACT -				
SPR	3A34853	73000110050	SPRING CONTACT +				
ELECT	TRICAL (COMPONENTS					
D1	16A20346	11702581700	DIODE 1N5817				
D2	16A34871	117001N6000	DIODE 1N60				
IC1	33A34870	10500711201	IC UTC7112				
IC1	33A34869	10500665000	IC AN6650				
JAC	8A34867	16503000400	JACK PHONE MONO REMOTE				
JAC	8A34865	16501300300	JACK DC				
JAC	41A26186	16502500100	JACK STEREO PHONE				
JAC	8A34866	16503000300	JACK PHONE MONO				
Q1	186645	11001094557	TRANSISTOR 2SC945P				
Q2	186645	11001094557	TRANSISTOR 2SC945P				
SWI	39A34868	17003040205	SWITCH PUSH				
VR1	42A34863	12523100200	RESISTOR VAR VOLUME				
VR2	42A34864	12621500201	RESISTOR VAR				
MISCE	ELLANEO	OUS					
LAB	4A34827	POP35027	LABEL POP				
USE	UC35027	UC35027	USE & CARE GUIDE				

ALIGNMENT LOCATION GUIDE

