SHARP

SUPPLEMENTAL SERVICE MANUAL

S20M321R14OTX

OVER THE RANGE MICROWAVE MODELS

This manual is to be used for models with the starting serial number 511112.

R-1405-T/1406-T

R-1514-T



R-1405-T pictured



R-1514-T pictured

This is a supplemental Service Manual for Models R-1405-T, R-1406-T and R-1514-T starting with Serial Number 511112. Use this supplemental manual together with these base models for complete operation, service information, etc.

In the interest of user-safety the unit should be restored to its original condition and only parts identical to those specified should be used.

WARNING TO SERVICE PERSONNEL:

This service manual is intended for use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. Sharp Electronics Corporation cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this manual.

Microwave ovens contain circuitry capable of producing very high voltage and current. Contact with the following parts may result in a severe, possibly fatal, electrical shock. (High Voltage Capacitor, High Voltage Power Transformer, High Voltage Rectifier, Heat sink, Magnetron, and High Voltage Harness etc..)

SHARP ELECTRONICS CORPORATION



SUPPLEMENTAL SERVICE MANUAL SHARP

OVER THE RANGE MICROWAVE OVEN

R-1405-T / R-1406-T / R-1514-T

FOREWORD

This Manual has been prepared to provide Sharp Electronics Corp. Service Personnel with Operation and Service Information for the SHARP OVER THE RANGE MICROWAVE OVENS.

It is recommended that service personnel carefully study the entire text of this manual so that they will be qualified to render satisfactory customer service.

Check the interlock switches and the door seal carefully. Special attention should be given to avoid electrical shock and microwave radiation hazard.

WARNING

Never operate the oven until the following points are ensured.

- (A) The door is tightly closed.
- (B) The door brackets and hinges are not defective.
- (C) The door packing is not damaged.
- (D) The door is not deformed or warped.
- (E) There is not any other visible damage with the oven.

Servicing and repair work must be carried out only by trained service personnel.

DANGER

Certain initial parts are intentionally not grounded and present a risk of electrical shock only during servicing. Service personnel - Do not contact the following parts while the appliance is energized; High Voltage Capacitor, Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness;

If provided, Vent Hood, Fan assembly, Cooling Fan Motor.

All the parts marked "*" on parts list are used at voltages more than 250V.

Removal of the outer wrap gives access to voltage above 250V.

All the parts marked " Δ " on parts list may cause undue microwave exposure, by themselves, or when they are damaged, loosened or removed.

BEFORE SERVICING

Before servicing an operative unit, perform a microwave emission check as per the Microwave Measurement Procedure outlined in this service manual.

If microwave emissions level is in excess of the specified limit, contact SHARP ELECTRONICS CORPORATION immediately @1-800-237-4277.

If the unit operates with the door open, service person should 1) tell the user not to operate the oven and 2) contact SHARP ELECTRONICS CORPORATION and Food and Drug Administration's Center for Devices and Radiological Health immediately.

Service personnel should inform SHARP ELECTRONICS CORPORATION of any certified unit found with emissions in excess of 4mW/cm². The owner of the unit should be instructed not to use the unit until the oven has been brought into compliance.

SHARP ELECTRONICS CORPORATION

SHARP PLAZA, MAHWAH, NEW JERSEY 07430-2135

PARTS LIST

Note: The parts marked " Δ " may cause undue microwave exposure. The parts marked "*" are used in voltage more than 250V.

ſ	REF. NO.	PART NO.	DESCRIPTION	O'TV	CODE
L	NET. NU.	FARTINU.	ELECTRIC PARTS	<u>i Wit</u>	LODE
, Ī	1- 1	FH-DZB033MRY0	High voltage rectifier assembly	1 1	AN
"	1- 1	RC-QZA026WRZZ	High voltage capacitor	1 1	AN AT
	1- 3	OFS-TA013WRE0	Temperature fuse 150½C (Magnetron)	1	AG
	1- 4	RMOTDA252WRZZ	Turntable motor	1	AN
	1- 5	RTHM-A135WRZZ	Thermal cut-out 145½C (Cavity)	1	AG
	1- 6	RTHM-A136WRZZ	Thermal cut-out N.O. 60½C (Hood Fan)	1	AK
*	1- 7	RTRN-B096MRE0	Power transformer	1	BL
Δ	1- 8 1- 9	RV-MZA293WRE0	Magnetron Noise filter	1 1	BH AS
	1-9	FPWBFA437WRKZ OSW-MA085WRE0	Noise filter Primary interlock and door sensing switches	3	AS AF
	1-10	FFS-BA033WRKZ	Monitor switch (V-5220Q) & fuse assy (20A, 120VAC)	1 1	AN
	1-12	FACCDB011MRE0	Power supply cord	1 1	AV
	1-13	QSOCLA021WRE0	Oven lamp socket	3	AG
	1-14	FMOTEA469WRKZ	Hood fan motor [R-1405-T/R-1406-T]	1	BL
	1-14	FMOTEA489WRKZ	Hood fan motor [R-1514-T]	1	BK
	1-15	RMOTEB031MRE0	Fan motor	1	AT
	1-16	RLMPTA086WRZZ	Oven lamp	3	AL
	1-17	FDTCTA225WRKZ	AH sensor	1	AW
			CABINET PARTS		
	2- 1	LSTY-A121WRWZ	Rear stay	1	AN
	2- 2	PDIF-A042WRFZ	Hood exhaust louver [R-1405-T]	1	AX
	2- 2	PDIF-A044WRFZ	Hood exhaust louver [R-1406-T]	1	AX
	2- 2	FDIF-B014MRK0	Hood exhaust louver [R-1514-T]	1	BF
	2- 3	GDAI-A461WRWZ	Base plate R	1	AQ
	2- 4 2- 4	HDECQA467WRFZ HDECQA469WRFZ	Front panel L [R-1405-T] Front panel L [R-1406-T]	1 1	AP AP
	2- 4	FDECAB031MRK0	Front panel L [R-1514-T]	1 1	AX
	2- 5	GCABUB185WRPZ	Outer case cabinet [R-1405-T/R-1514-T]	1	BG
	2- 5	GCABUB188WRPZ	Outer case cabinet [R-1406-T]	1	BL
	2- 6	TMAPCA797WRRZ	Schematic diagram [R-1405-T/R-1406-T]	1	AD
	2- 6	TMAPCA799WRRZ	Schematic diagram [R-1514-T]	1	AD
	2- 7	FANGKB009MRY0	Hood lamp glass assembly [R-1405-T/R-1514-T]	1	AP
	2- 7	FANGKB029MRY0	Hood lamp glass assembly [R-1406-T]	1 1	AQ
	2-7-1 2-7-1	LANGQB016MRP0 LANGQB082MRP0	Hood lamp glass angle [R-1405-T/R-1514-T] Hood lamp glass angle [R-1406-T]	1 1	AM AN
	2-7-2	PGLSPB004MRE0	Hood lamp glass angle [K 1400 1]	1 1	AQ
	2- 8	PCOVPA553WRPZ	Base cover [R-1405-T/R-1514-T]	1	AZ
	2- 8	PCOVPA561WRTZ	Base cover [R-1406-T]	1	AZ
L			CONTROL DANIEL DADTS	!	<u> </u>
Γ	3- 1	GPNLCA007WRKZ	CONTROL PANEL PARTS T/C sub assy [R-1405-T/R-1406-T]	1	BP
	3- 1	GPNLCA006WRKZ	T/C sub assy [R-1514-T]	1	BQ
	3- 2	FPNLCC070WRKZ	Control panel sub. assembly [R-1405-T]	1	AX
	3- 2	FPNLCC071WRKZ	Control panel sub, assembly [R-1406-T]	1	AX
	3- 2	FPNLCB420MRK0	Control panel sub, assembly [R-1514-T]	1	BH
	3- 2-1	PSHEPB135MRR0	Key unit [R-1405-T]	1	AN
	3- 2-1	PSHEPB134MRR0	Key unit [R-1406-T]	1	AN
	3- 2-1 3- 2-2	PSHEPB136MRR0 JBTN-B641WRFZ	Key unit [R-1514-T] Open button [R-1405-T]	1 1	AN AG
	3- 2-2	JBTN-B642WRFZ	Open button [R-1405-T]	1 1	AG AG
	3- 2-2	FDECAB030MRK0	Open button [R-1514-T]	1	AT
	3- 2-3	MSPRCA045WRE0	Button spring [R-1405-T/R-1406-T]	1	AF
	3- 2-3	MSPRTA050WRE0	Button spring [R-1514-T]	1	AA
	3- 3	XEPS730P10XS0	Screw; 3mm x 10mm	5	AA
L					

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
		OVEN PARTS		
4- 1 4- 2 4- 3 4- 4 4- 5 4- 6 4- 7 4- 8 4- 9 4-10 4-11 4-12 4-13 4-14 4-15 4-16 4-17 4-18 4-19	LSTPPB038MRF0 FROLPA097WRKZ NTNT-A108WREZ LBNDKA186WRPZ PDUC-B155WRFZ MLEVPA244WRFZ *********** PPACGA084WRF0 PHOK-A130WRFZ LANGTA477WRWZ NFANJA060WRFZ LBSHCA014WRE0 PDUC-B157WRFZ PDUC-B157WRWZ PCOVPA554WRPZ PCUSUA661WRPZ LANGTA479WRPZ PDUC-B158WRFZ PDUC-B158WRFZ		1 1 1 1 1 1 1 1 1 1 1 2 1 2 2 1	AF AN AW AF AK AG AE AK AT AH AG AK AN AF AC
4-19 4-20 4-21 4-22	PDUC-B156WRFZ PDUC-B159WRWZ PCUSUA665WRPZ PCUSUA672WRPZ	Fan duct Cushion [R-1514-T only] Cushion	1 1 1	AR AM AG AF
		DOOR PARTS		
5 5 5 5-1 5-2 5-3 5-4	CDORFB321MRK0 CDORFB322MRK0 CDORFB317MRK0 LSTPPB023MRF0 MSPRTA046WRE0 GCOVHB044MRF0 XCPSD40P08000	Door assembly [R-1405-T] Door assembly [R-1406-T] Door assembly [R-1514-T] Latch head Latch spring Choke cover Screw : 4mm x 8mm	1 1 1 1 1 1 2	BL BL BQ AF AD AX AC
		MISCELLANEOUS	•	
6- 1 6-1-1 6-1-2 6-1-3 6-1-4 6-1-5 6-1-6 6- 2 6- 3 6- 4 6- 5 6- 6 6- 7 6- 8 6- 9 6-10 6-11 6-12 6-13 6-14	CFZK-B657WRKZ LX-BZ0195WRE0 XBPS750P85000 XOTS740P12000 XTSS750P35000 XWHS750-16300 LANG-A136WRPZ TINSEB233WRKZ TINSEB237WRRZ TINSEB237WRRZ QW-QZB023MRE0 FW-VZC270WREZ FW-VZC271WREZ TCAUAA302WRRZ TCAUAA301WRRZ TCAUAA301WRRZ TCAUAA307WRRZ TCAUAA307WRRZ PFIL-B002MRE0 FFTA-B007MRK0 PFIL-B006MRE0 PCUSUA660WRPZ QW-VZB011MRE0	Installation material assembly Toggle screw Screw: 5mm x 60mm Screw: 5mm x 12mm Screw: 5mm x 35mm Washer Scale plate Operation manual [R-1405-T/R-1406-T] Operation manual [R-1514-T] Top template High voltage wire A Main harness [R-1405-T/R-1406-T] Main harness [R-1514-T] DHHS service caution label Monitor caution label Revised DHHS/GRD C/label Wall template Grease filter Exhaust damper assembly Charcoal filter [R-1514-T] Rear cushion (for horizontal venting only) Sensor ground wire [R-1514-T only]	1 4 2 3 6 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1	AQ AH AF AB AD AG AF AN AG AF AY AF AF AF AH AM AN AR AE AF

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE						
SCREWS.NUTS AND WASHERS										
7- 1 7- 1 7- 2 7- 3 7- 4 7- 5 7- 6 7- 7 7- 8 7- 9 7- 9	LX-CZA109WREZ LX-CZA108WREZ XOTS740P08000 XHTS740P08RV0 LX-CZ0052WREZ XEBS730P08000 XHPS740P08K00 XHPS740P08000 LX-WZB003MRE0 XOTS840P08000 XOTS740P08000	Special screw (R-1405-T/R-1514-T) Special screw (R-1406-T) Screw: 4mm x 12mm Screw: 4mm x 8mm Special screw Screw: 4mm x 8mm [R-1514-T only] Special screw Screw: 3mm x 8mm Sensor washer [R-1514-T only] Special screw [R-1405-T/R-1514-T] Special screw [R-1406-T]	3 3 20 4 2 2 2 2 4 1 4	AF AD AB AG AA AB AC AB AF AB						

HOW TO ORDER REPLACEMENT PARTS

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER

2. REF. NO.

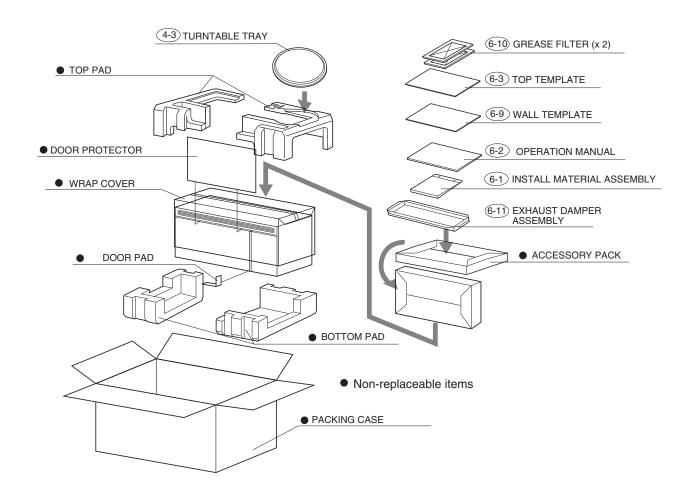
3. PART NO.

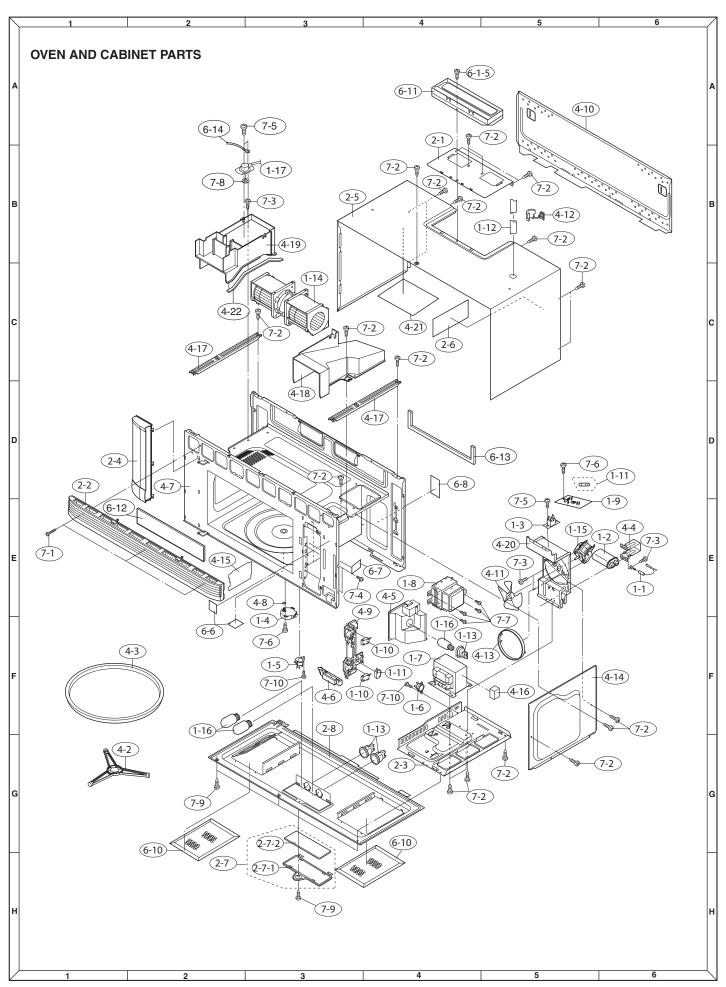
4. DESCRIPTION

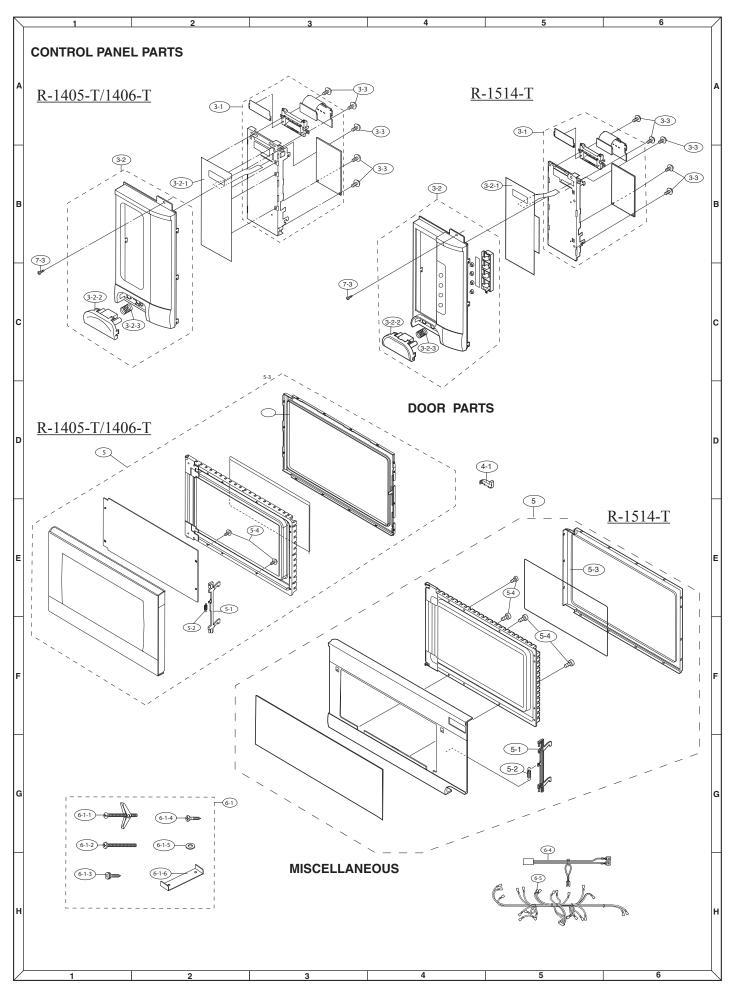
Order Parts from the authorized SHARP parts Distributor for your area.

Defective parts requiring return should be returned as indicated in the Service Policy.

PACKING AND ACCESSORIES







SHARP

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