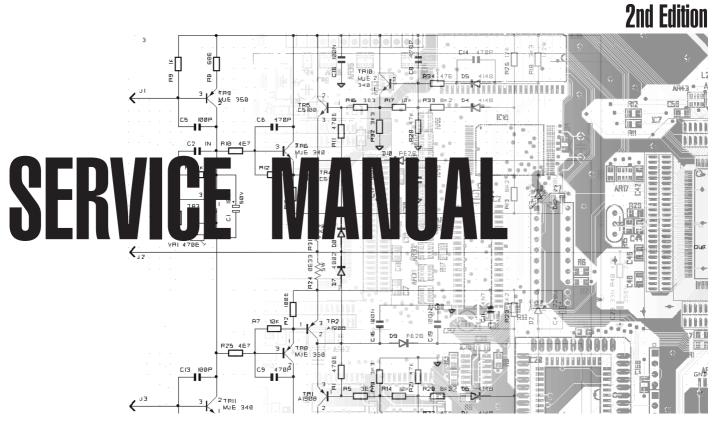
POWERFACTOR 3



POWERFACTOR 5

POWERFACTOR 7





► CODE: 270242



${f \hat{}}$ Assistance Procedure



WARRANTY CONDITIONS

The GM warranty validity will depend on the integrity of the seal applied on the cover's edge (back side) of each product, which must not be broken or removed for any reason by the user and/or the GM Service Centre, otherwise the validity will be lost as penalty.

FIRST LEVEL ASSISTANCE SERVICE (made by GM Service Center)

The seal includes all the electronics of the power amplifier module with the exception of the Lem control panel assembly, which is accessible by means of four screws with hexagonal head.

We therefore authorize only the first level assistance relevant to the Lem control panel assembly (see the spare parts mentioned below) and to the faultiness checking of the power amplifier module.

SECOND LEVEL ASSISTANCE SERVICE (made by GM Italy)

The second level assistance on the amplifier will be made directly by GM Italy. The distributor/service centre will have to send GM Italy the faulty equipment and GM Italy will ship the equipment under temporary replacement, if requested.

PROCEDURE (made by GM Service Center)

The correct procedure for getting a second level assistance is the following one:

- 1) Please fill in properly the SERVICE CARD with all data required, particularly specify the S/N relating to the Powerfactor to be repaired and briefly explaining its faultiness and stating exactly whether the equipment (under temporary replacement) is required or not.
- 2) Kindly fax to GM Italy (S.A.T. Dept.) the SERVICE CARD and the WARRANTY CARD properly compiled (only for equipment which are under guarantee) in order to have the GM authorization and the indications to manage the repairing.
 - NOTE: The WARRANTY CARD must be filled in the properly way otherwise its validity will be lost.
- 3) The GM Italy (S.A.T. Dept.) will authorize by fax the shipment of the equipment to be repaired and a possible confirmation about a new equipment to send you under temporary replacement.

REPAIRING AND FREIGHT CHARGES

- 1) The freight charges relating to the temporary equipment will be always debited to the final user.
- 2) The repairing costs of equipment under warranty will be charged to GM Italy.
- 3) The repairing costs and the freight charges of equipment out of warranty will be invoiced by GM Italy to the addressee within 30 days starting from the equipment return.

OTHER CONDITIONS

- 1) GM Italy answers for the equipment repairing and the relating shipment to the addressee within 30 days from the receipt date of the same equipment.
- 2) The temporary equipment ought to be sent back to GM Italy within 5 days from receipt of the repaired one. In case the temporary equipment should not return to GM Italy, it will be automatically invoiced after 30 days from the date of the repaired equipment

Spare Part List

/	Ref	Code	Description
		277339	Owner's Manual (English, Italian)
		PWS887000	Mains Cable with Neutrik NAC3FCA plug
	1	PWS667003	"Lem" Rack Support (ME000017)
	2	PWS667000	PowerFactor 3 Control Panel (ME000018)
	3	PWS667001	PowerFactor 5 Control Panel (ME000018)
	12	PWS667005	PowerFactor 7 Control Panel (ME000018)
	4	PWS110000	Power Switch (IN000001)
	5	PWS667004	Potentiometer Knob (MA000001)
	6	PWS768000	Controls Panel PCB Assembly (DA22 FR04)
	7	PWS100000	LM3915N Vu-Meter IC (IC000015)
	8	PWS074000	470ohm Lin Rot Potentiometer (PO000001)
	9	PWS080002	Green Led (LE000005)
	10	PWS080000	Yellow Led (LE000003)
	11	PWS080001	Red Led (LE000004)

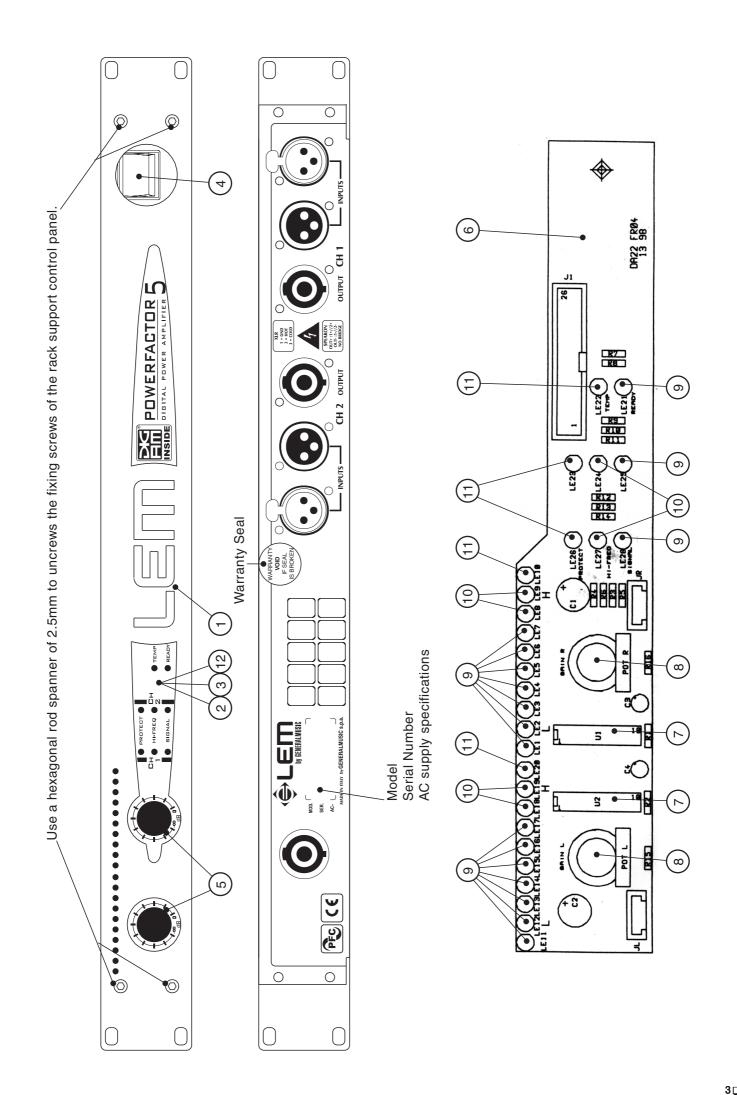
Fax directly to GM Italy: + + 39 - (0)541 - 957 - 404

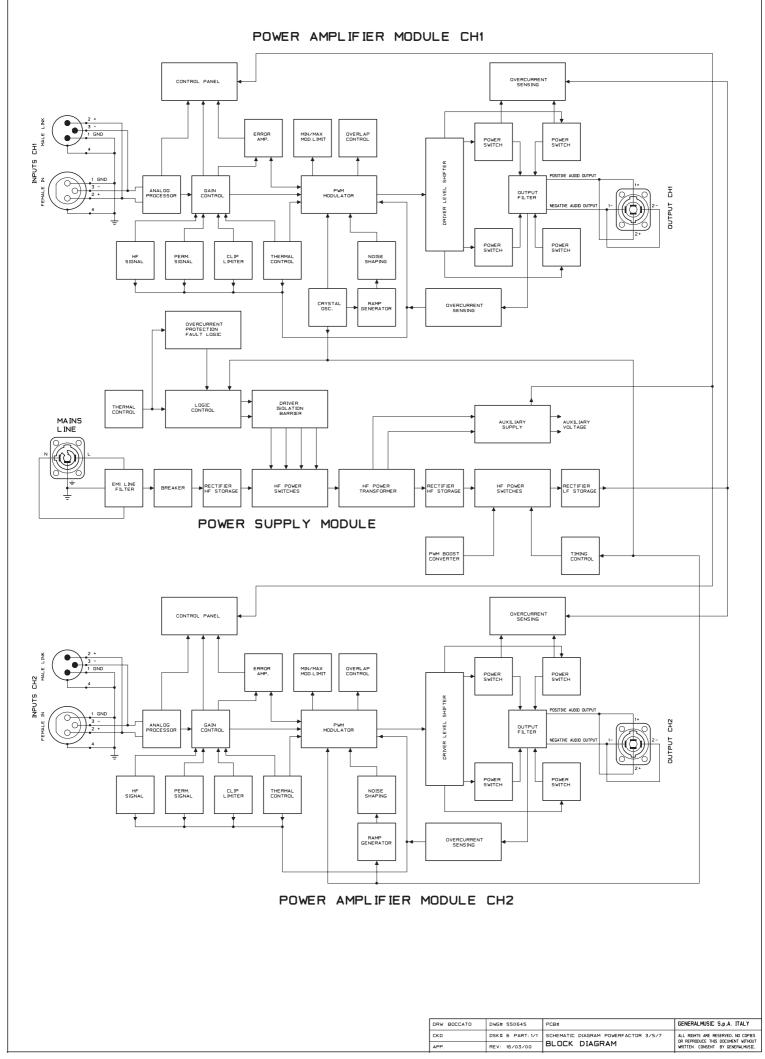
Address

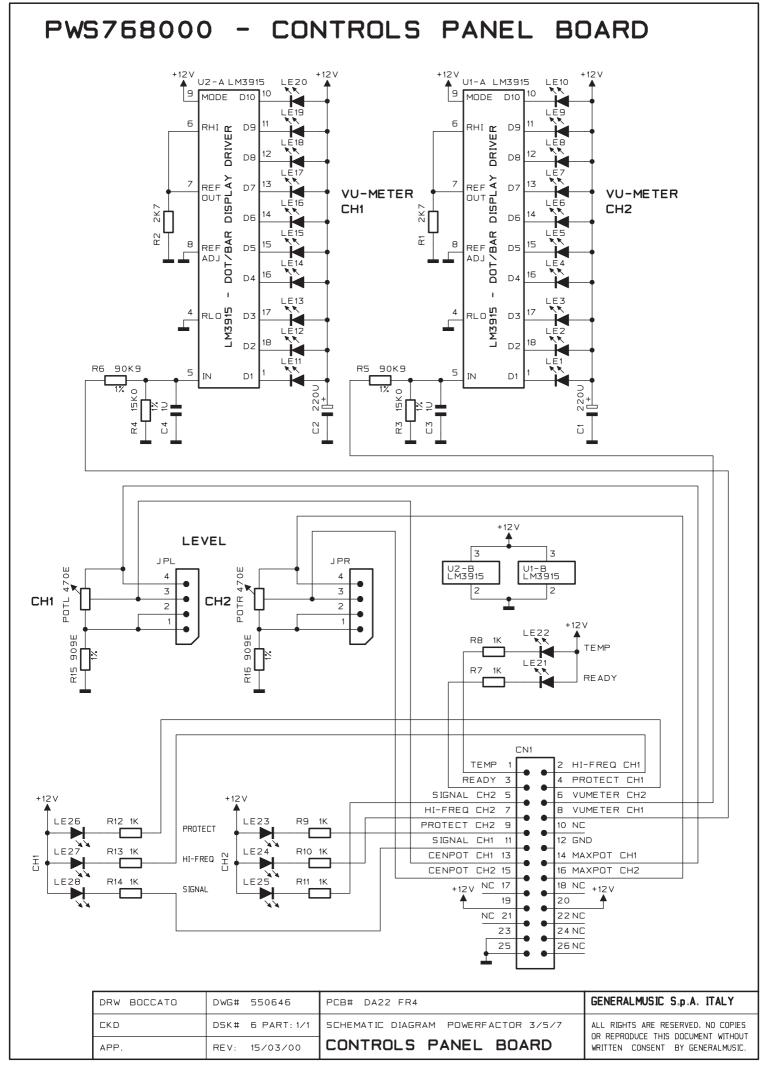


GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY – Via delle Rose, 12

Phone +39(0)541/959511 - Fax +39(0)541/957404 - GENERALMUSIC on the NET: http://www.generalmusic.com







POWERFACTOR SERIES • TECHNICAL SPECIFICATIONS

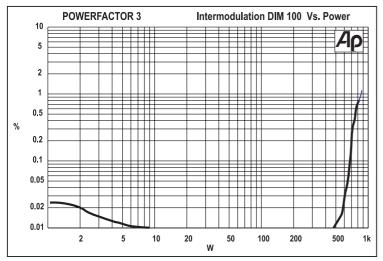
POWERFACIOR SE	RIES • IEC	HNICAL SP	ECIFICATI	UNS .
POWER SPECIFICATIONS		POWERFACTOR 3	POWERFACTOR 5	POWERFACTOR 7
EIAJ impulse output power 1kHz, THD maximum 1% Both channels	2 Ohms 4 Ohms 8 Ohms	820+820	2500+2500 1360+1360 750+750	3500+3500 1910+1910 1050+1050
Efficiency (at any sound level)	95%	Modulation), "Full stage using a 250 power conversion	Mplifier) and PWM Switching" output OKHz sampling rate and other dedicate In these high technology performances.	amplification , new D/A ed devices are
ELECTRICAL SPECIFICATIONS				
INPUT SENSITIVITY			0dB (0.775Vrms)	
INPUT IMPEDANCE		1	0 kOhms (balance	d)
FREQUENCY RESPONSE		10	0÷40000 Hz (-0.5d	B)
VOLTAGE GAIN		+38 dB	+40 dB	+41 dB
SLEW RATE			50 V/μs	
DAMPING FACTOR		100	Hz = 400, 10kHz =	400
CROSSTALK			-90 dB	
S/N ratio			-100 dB	
Harmonic distortion THD			.1W to full power (• • • • • • • • • • • • • • • • • • • •
Intermodulation distortion SMPTE			.1W to full power (
Intermodulation distortion DIM 100		<0.02% from 0	.1W to full power (typical <0.01%)
PROTECTIONS				
AMPLIFIER	Short circuit and over protection trips the lemuted. Thermal protection via 1) Normal condition: the temperature level unubstructed from ra 2) Safety condition: circuit gradually reductions are muted lights steadily. DC offset current prolights up and the relations to the left of	with three operating The fan flow air from the fan flow air from the fack, fly-cases or du When the temperatives the output gain on: When the temperatives the output safe temperatives of the control of the faction. When the faction of the faction	s up and the relative plevels: com front to rear slit normal condition the st. ture reaches 60°C in and the TEMP le erature exceeds 70°C ture level is restore protection trips the	s according with e airflow must be the protection d flashes. O'C all the ed, the TEMP led
LOUDSPEAKERS	lights up and the relative channel is muted. Muting circuit at Power on and off. High-frequency protections. Two dedicated device, one for each channel, filters internal VHF signals and external RF interferences outside the audio range, its activity is indicateted by means of HI-FREQ leds. Soft Clipping protections. Two clip limiters, one for each channel, prevent distortions due to excessive input signals. Their activities are displayed by the VU-Meters: Green leds indicate normal running conditions. First yellow led lights up at -3dB. Second yellow led lights up at 0dB. Red Led lights up at +4dB and indicates the interventions of the soft clip			

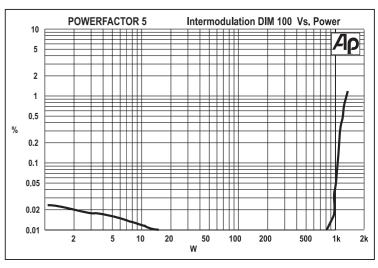
circuit, it must lights up only occasionally.

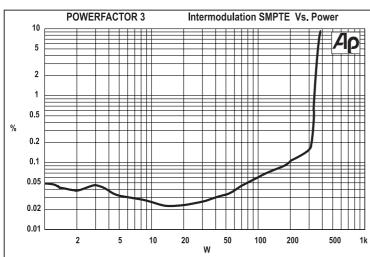
POWERFACTOR SERIES • TECHNICAL SPECIFICATIONS

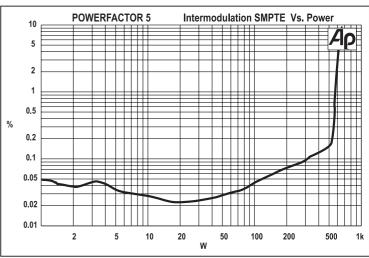
GENERAL SPECIFICATIONS		POWERFACTOR 3	POWERFACTOR 5	POWERFACTOR 7
CONTROLS		Input lov	ON/OFF switch rel control for each	channol
INDICATORS		SIGNA PF HI- SI	L LEVEL: 2 x 10-L ROTECT: 2 red LE FREQ: 2 yellow LE GNAL: 2 green LE (READY: 1 green L TEMP: 1 red LED	ED bar Ds EDs Ds
CONNECTORS	INPUT OUTPUT		LR-M in parallel fo SPEAKON for each	
	Europe		230Vac ±15%	
	U.S.		115Vac ±15%	
	Power requirement	2000W	3400W	4800W
	SSC	The "Soft Start Circuit" is a device that allows to avoid high energy consumption when the unit is switched on.		
POWER SUPPLY	APFC		of the supply voltag perfect dynamic c	s a pure resistive o ensure almost ge of the output apacity on PA
MAINS CABLE		Powercon (type N (mains line) must least 20A current following connecti Blue wire = N - Ne Brown wire = L - L	be equipped with a capacity and respe ons: eutral	ide, the other side a right plug at ecting the
DIMENSIONS		483)	(44x450 mm (WxF	HxD)
WEIGHT			9.5 kg	

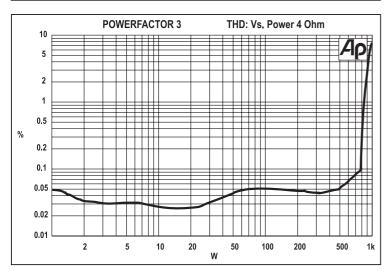
ATTENTION	These amplifiers cannot be used in bridge mode, this is due to the PWM final stage structure.
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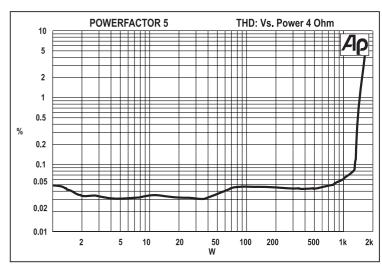


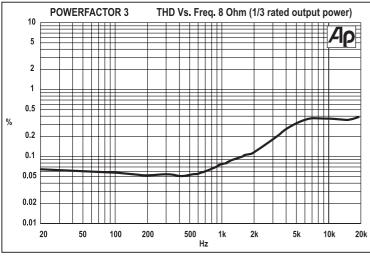


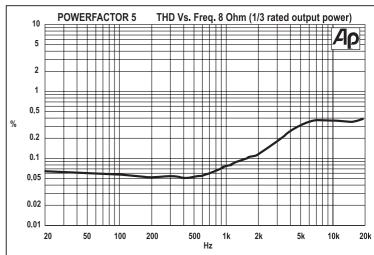


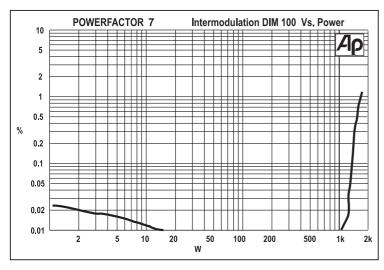


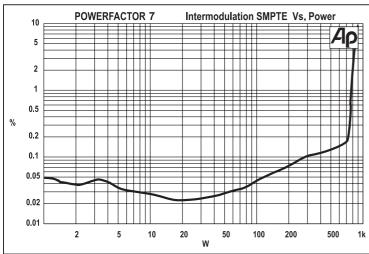


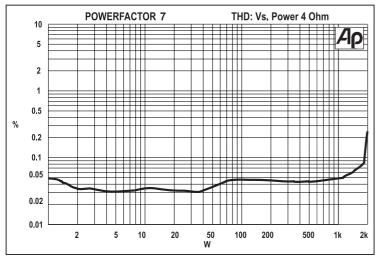


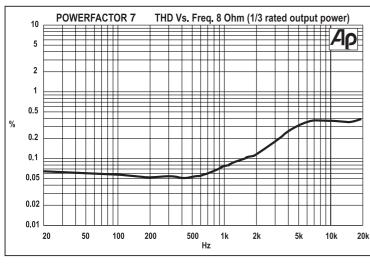












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Fax to: ++39-(0)541-957-404 GENERAL MUSIC S.n.A. Italy (Att. S.A.T. Department)

		SER.N°.:
	☐ YES ☐ NO	NOTE: if YES, fax the WARRANTY CERTIFICATE also.
Service Center (add	lressee)	
		Country:
	•	Country.
Date :	Sign	& Stamp:
Request of tempora NOTE: all freight charges of ten REPAIRING AUTHORIZATION	nporary equipmet is always o	debited to the final customer.
Authorization N°:	Ship the defe	
Authorization N°:	Ship the defe	ective unit to the below address and shipment conditions:
Date :	Sign &	Stamp:
Date : Temporary equipm	Sign & ent references (if	Stamp: requested):
Date : Temporary equipmonents MODEL :	Sign & ent references (if	Stamp: requested): SER.N°.:
Date : Temporary equipm	ent references (if	Stamp: requested):
Date : Temporary equipment MODEL :	Sign & ent references (if	Stamp: requested): SER.N°.:
Date :	ent references (if	Stamp: requested): SER.N°.:
Temporary equipment MODEL: Delivered by means of Shipment referement	ent references (if	Stamp: requested): SER.N°.:
Temporary equipmed MODEL: Delivered by means of Shipment referement REPAIRING INFO: fill in by Control of Shipment referement Delivered by means of Shipment referement	ent references (if	Stamp: requested): SER.N°.: Date:
Date :	ent references (if : : : : : : : : : : : : : : : : : :	Stamp: requested): SER.N°.: Date:

NOTE: Fax the shipment info only just you have delivered the temporary equipment at the carrier.



Fax a: ++39-(0)541-957-404 GENERALMUSIC S.p.A. Italy (Att. S.A.T. Department)

 RICHIESTA DI ASSISTEN Autorizzato 	ZA: compilata dal C	Centro Assistenza ————————————————————————————————————
		SER.N°. :
NOTA: compilare con i dati o	dell'apparecchio difettos	so come riportati esattamente nella targhetta posteriore.
In Garanzia? SI Breve spiegazione del difetto		NOTA: se SI faxare anche il Certificato di Garanzia
Centro di Assistenz	za (mittente)	
		-ax:
		irma e Timbro:
AUTORIZZAZIONE RIPARAZ		mporaneo sono sempre a carico del cliente finale. SM Italia
N° Autorizzazione:		unita' difettosa all'indirizzo con le modalita' di spedizione
	specificati	:
Pata :	Fir	rma e Timbro:
Riferimenti dell'app	arecchio temp	oraneo (se richiesto):
MODELLO :		SER.N°. :
Consegnato tramite	:	
Riferimento spedizione	:	
INFORMAZIONI RIPARAZIO	NE commitate de CM	
		Italia —
Consegnato tramite	·	
	·	
Riferimento spedizione	:	Data:
	:	Data:
	ONE APPARECCHIO TE	Data:
	ONE APPARECCHIO TE	Data:



MODEL :	SER.N°.:
NOTE: fill in with defective ed	quipment data as referred exactly in the back label.
·	YES NO NOTE: if YES, fax the WARRANTY CERTIFICATE also
Service Center (add	dressee)
Name :	
	City: Country:
	Fax:
	(EU countries only):
Date :	Sign & Stamp:
Request of tempora	ary equipment:
	N: fill in by GM Italy
Authorization N :	Ship the defective unit to the below address and shipment condition
ate :	Sign & Stamp:
ate :Temporary equipm	ent references (if requested):
Temporary equipm	ent references (if requested):
ate: : Temporary equipm MODEL:	ent references (if requested): SER.N°.:
Temporary equipm MODEL: Delivered by means of Shipment referement	ent references (if requested): SER.N°.:
Temporary equipm MODEL: Delivered by means of Shipment referement	ent references (if requested): SER.N°.:
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Fax a: ++39-(0)541-957-404 GENERALMUSIC S.p.A. Italy (Att. S.A.T. Department)

DICHIECIA INI ACCICIEN	17 A : compilata dal C	entro Assistenza ————————————————————————————————————
Autorizzato	IZA: compilata dal C	entro Assistenza –
MODELLO :	• • • • • • • • • • • • • • • • • • • •	SER.N°. :
NOTA: compilare con i dati d	dell'annarecchio difettos	o come riportati esattamente nella targhetta posteriore.
_	_	o come riportati esattamente nena targnetta posteriore.
In Garanzia ? 🚨 SI	⊔ ио	NOTA: se SI faxare anche il Certificato di Garanzia.
Breve spiegazione del difetto):	
Centro di Assistenz	za (mittente)	
	,	
Codice Postale:	Citta':	Provincia:
Telefono :	F	ax:
Data :	Fi	irma e Timbro:
Richiesta dell'appar	recchio tempora	aneo: 🍱 SI 🗀 NO
NOTA: tutte le spese di spedizi	ione dell'apparecchio ten	nporaneo sono sempre a carico del cliente finale.
TITALIA	-	
N° Autorizzazione:	Inviare l'u	nita' difettosa all'indirizzo con le modalita' di spedizione
	specificati:	
	specificati.	
	specificati.	ma e Timbro:
Data :	Fir	ma e Timbro:
Data :	Fir	
Data :	Fir	ma e Timbro:
Data :	parecchio tempo	ma e Timbro: oraneo (se richiesto): SER.N°.:
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Data :	parecchio tempo	ma e Timbro: oraneo (se richiesto): SER.N°.:
Data :	parecchio tempo	ma e Timbro: oraneo (se richiesto): SER.N°.:
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Data :	DNE: compilata da GM	ma e Timbro: oraneo (se richiesto): SER.N°.:
Data :	DNE: compilata da GM	ma e Timbro: oraneo (se richiesto): SER.N°.:
Riferimenti dell'app MODELLO:	DNE: compilata da GM	ma e Timbro:
Data :	DNE: compilata da GM	ma e Timbro: oraneo (se richiesto): SER.N°.:
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Riferimenti dell'app MODELLO:	Enterior in the policy of the	ma e Timbro: oraneo (se richiesto): SER.N°.: Data: Costo: MPORANEO: compilata dal Centro Assistenza Autorizzato