



SERVICE MANUAL

e152

IMPORTANT SAFETY INSTRUCTIONS



INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

AVIS:

AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)

NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIEN

Read Instructions

The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference.

Packaging

Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning

When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

Service

The unit should be serviced only by qualified service personnel.

Veillez Lire le Manuel

Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

Emballage

Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

Attention:

Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que l'appareil est fourni de la propre ventilation.

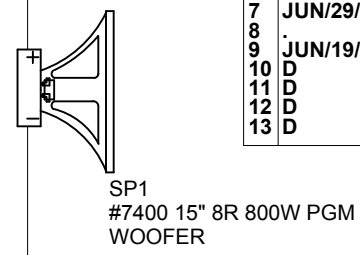
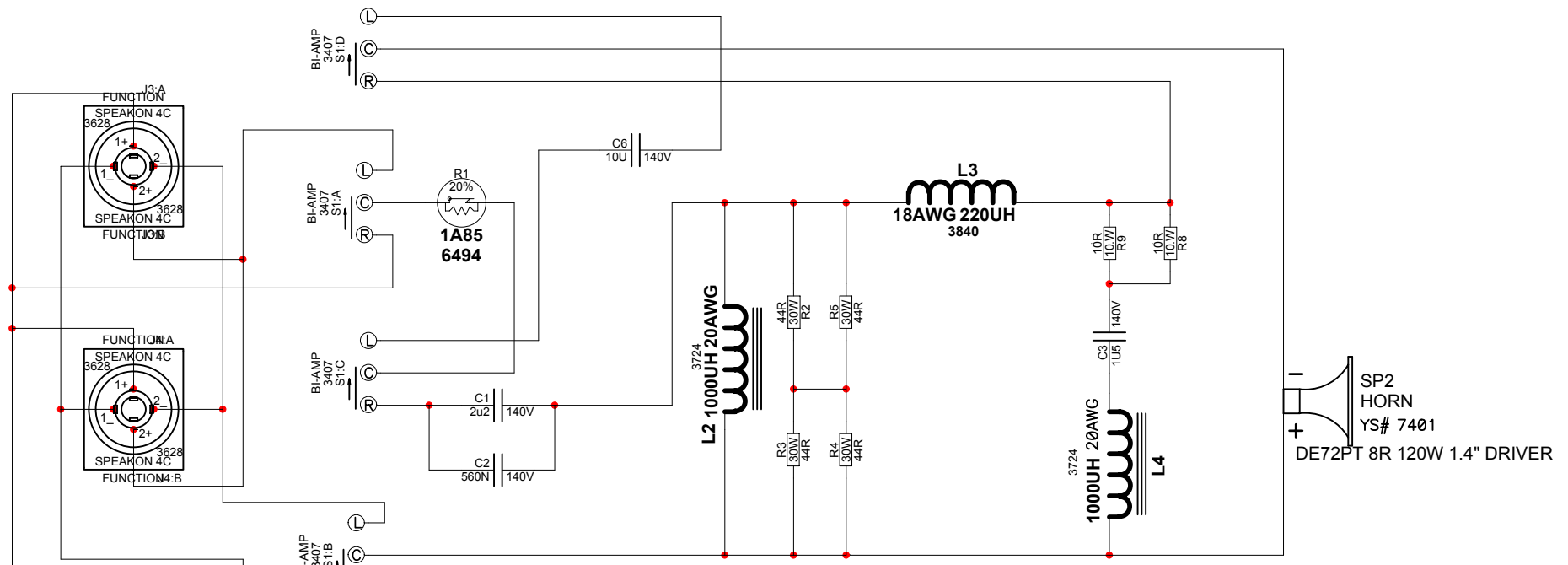
Les dispositifs marqués d'un symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

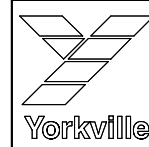
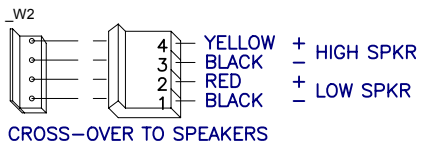
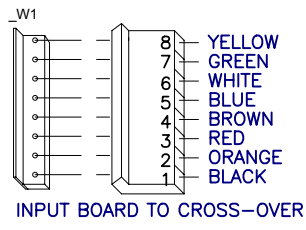
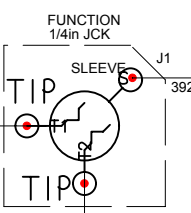
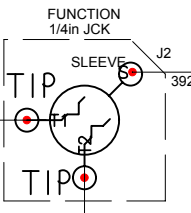
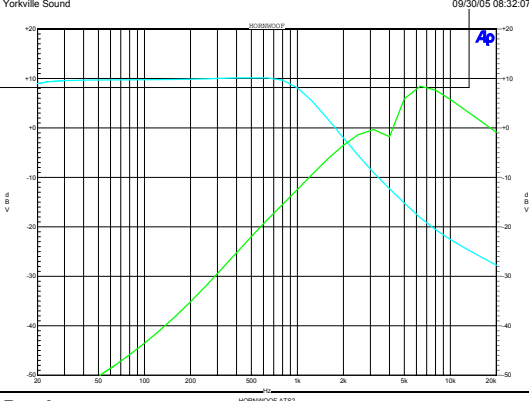
Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

Service

Consultez un technicien qualifié pour l'entretien de votre appareil.

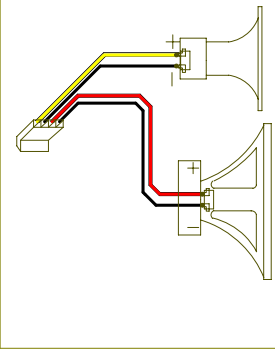


M657-M657A PCB HISTORY			
MODEL(S):- E152 / C3585 CROSSOVER			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	NOV/12/2002	1.00P1	FIRST PROTOTYPE
2	APR 03 2003	2.00	PC#6598 UPDATE C3 1u5 140V
3	JUN/04/2003	3.00	UPDATE FOR BANANNA JACKS FOR M657A
4	JUN/18/2004	3.00	PC#6696 ADDED PRODUCTION NOTE TO LEAVE SPACE BETWEEN R2, R3, R4, R5 AND MOVED RESISTORS TO INCREASE SPACING BETWEEN THEM ON LAYOUT
5	D	V	
6	D	V	
7	JUN/29/2005	4.00	AH: PC#6828, ADD REFERENCE LABELS 1/2 2/2
8	D	V	
9	JUN/19/2006	4.01	PC#6934, ADD ROUTE GAUGE AND ETCH GUIDE
10	D	V	PC#7132 R6 R7 3R9 10W TO 3R9 15W
11	D	V	
12	D	V	
13	D	V	



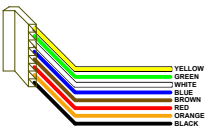
Product **E152**

CROSS-OVER	PCB# M657	Sheet 1 of 2
Date: Wed Jun 19, 2006	Rev:4.00	
Filename: M657-4V01sch.sch2002		



M657 DRILL HISTORY				M657-M657A PCB HISTORY			
MODEL(S):- E152				MODEL(S):- E152 / C3585 CROSSOVER			
#	DATE	VER#	DESCRIPTION OF CHANGE	#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N	1	NOV/12/2002	T	FIRSTY PROTOTYPE
2	D	V	N	2	APR 03 2003	2.00	PC#6598 UPDATE C3 1u5 140V
3	D	V	N	3	JUN/04/2003	3.00	UPDATE FOR BANANNA JACKS FOR M657A
4	D	V	N	4	JUN/18/2004	3.00	PC#6696 ADDED PRODUCTION NOTE TO LEAVE SPACE BETWEEN R2, R3, R4, R5 AND MOVED
5	D	V	N	5		V	RESISTORS TO INCREASE SPACING BETWEEN THEM
6	D	V	N	6		V	AH: PC#6928, ADD REFERENCE LABELS 112, 212
7	D	V	N	7	JUN/29/2005	4.00	PC#6934, ADD ROUTE GAUGE AND ETCH GUIDE
8	D	V	N	8		V	
9	D	V	N	9		V	
10	D	V	N	10	JUN/19/2006	4.01	PC#7132 R6,R7 3R9 10W TO 3R9 15W
11	D	V	N	11		V	
12	D	V	N	12		V	
13	D	V	N	13		V	

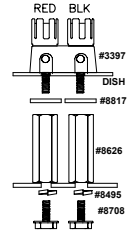
M657 PENDING CHANGES		
MODEL(S):-	E152	
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X
7	PC	X
8	PC	X
9	PC	X
10	PC	X
11	PC	X
12	PC	X
13	PC	X



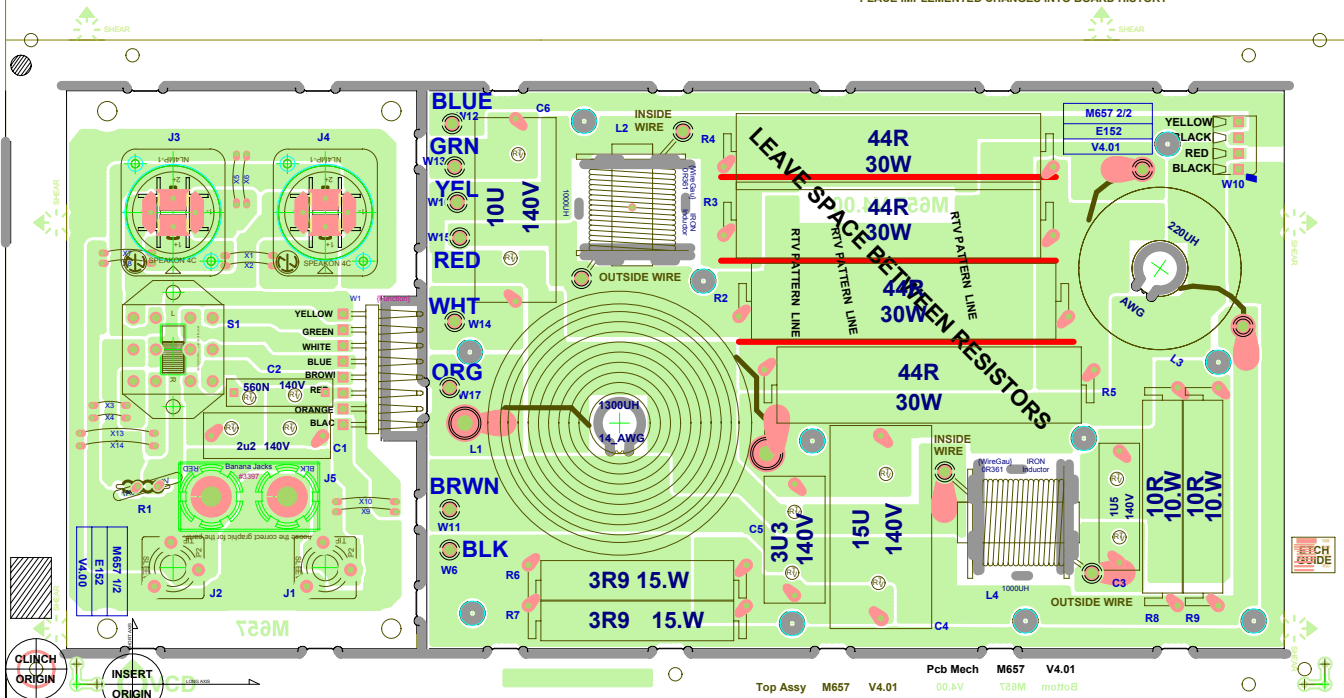
ON LAYOUT

PRODUCTION NOTES

1- #3397 BANANNA JACKS FOR M657A ONLY



2 ADD RTV UNDER R2,R3,R4,R5 IN THE PATTERN SHOWN
 LEAVE SOME SPACE BETWEEN R2, R3, R4, R5



E152KIT .

Horn Bracket Upgrade:

Due to a potential dislocation of the E152 horn drive-mounting bracket, we are asking our dealers and customers to add an extra bracket block to the base of the horn driver mounting assembly. Each bracket block is supplied with 4 screws and 4 washers. Simply install a screw and washer in each of the four predrilled holes and drive them until they are flush with the opposite side of the block and then screw the block in place in the location shown in the following photos. It is best to apply some force against the block in the direction of the horn support as you are tightening the screws. This whole operation only takes a few minutes and will ensure that the unit will survive its 10-year structural warranty.







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