



SERVICE MANUAL

LS-Series Subwoofers

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Quality and Innovation Since 1963
Printed in Canada

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.

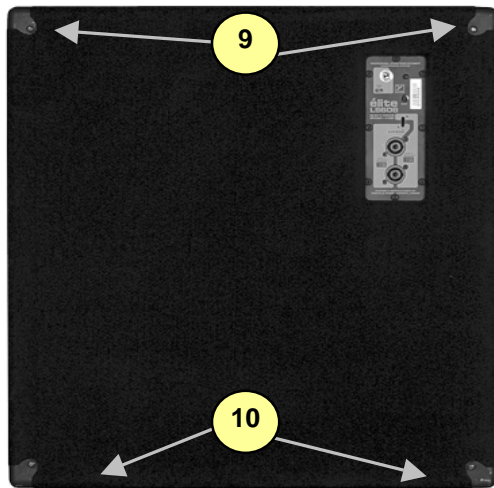
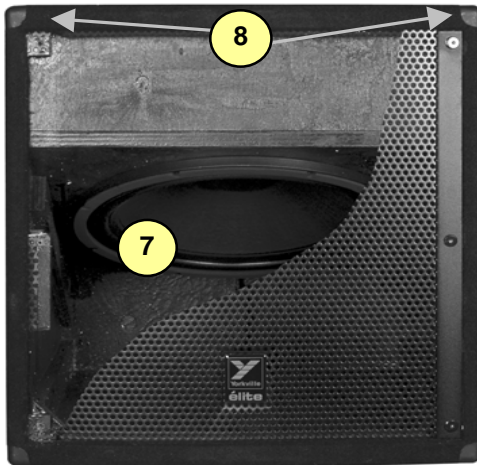
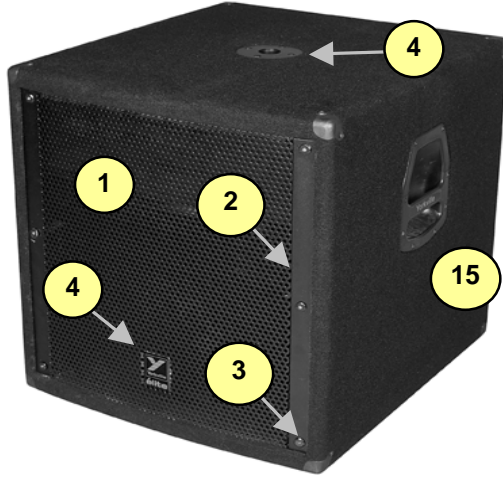
Parts List 12/6/2005

| YS # | Description | Qty. | YS # | Description | Qty. | YS # | Description | Qty. | YS # | Description | Qty. |
|--------|--------------------------------------|------|--------|--------------------------------------|------|--------|-------------------------------------|-------|--------|-------------------------------------|------|
| | LS608 | | | LS808 | | | LS1004 | | | LS1208 | |
| 8483 | ADAPTOR,SPEAKER STAND,METAL,BLACK | 1 | 8483 | ADAPTOR,SPEAKER STAND,METAL,BLACK | 1 | 8545 | RECESSED RUBBER BUMPER WITH WASHER | 2 | 8545 | RECESSED RUBBER BUMPER WITH WASHER | 2 |
| 8547 | PLASTIC FOOT BLACK, POLYETHYLENE | 4 | 8545 | RECESSED RUBBER BUMPER WITH WASHER | 2 | 8562 | CORNER, 3 LEGS, BLACK OXIDE | 2 | 8562 | CORNER, 3 LEGS, BLACK OXIDE | 2 |
| 8562 | CORNER, 3 LEGS, BLACK OXIDE | 4 | 8562 | CORNER, 3 LEGS, BLACK OXIDE | 4 | 8569 | CORNER, 2 LEGS NO LIP BLACK OXIDE | 4 | 8569 | CORNER, 2 LEGS NO LIP BLACK OXIDE | 4 |
| 8569 | CORNER, 2 LEGS NO LIP BLACK OXIDE | 4 | 8569 | CORNER, 2 LEGS NO LIP BLACK OXIDE | 2 | 8579 | 4000 SERIES RIGID CASTER | 2 | 8579 | 4000 SERIES RIGID CASTER | 2 |
| 3924 | 1/4" JCK PCB MT VERT 2XTIP HICURNT | 2 | 8579 | 4000 SERIES RIGID CASTER | 2 | 3924 | 1/4" JCK PCB MT VERT 2XTIP HICURNT | 2 | 3924 | 1/4" JCK PCB MT VERT 2XTIP HICURNT | 2 |
| 3628 | SPKON 4C PCB MT VERT 250TAB GRV #4 | 2 | 3924 | 1/4" JCK PCB MT VERT 2XTIP HICURNT | 2 | 3628 | SPKON 4C PCB MT VERT 250TAB GRV #4 | 2 | 3628 | SPKON 4C PCB MT VERT 250TAB GRV #4 | 2 |
| 8515 | SMALL BLACK XOVERDISH PLASTIC CNFG1 | 1 | 3628 | SPKON 4C PCB MT VERT 250TAB GRV #4 | 2 | 8515 | SMALL BLACK XOVERDISH PLASTIC CNFG1 | 1 | 8515 | SMALL BLACK XOVERDISH PLASTIC CNFG1 | 1 |
| 8565 | BAR HANDLE ALL METAL | 2 | 8515 | SMALL BLACK XOVERDISH PLASTIC CNFG1 | 1 | 8551 | BAR HANDLE RIGHT ANGLE TOP LOAD | 2 | 8551 | BAR HANDLE RIGHT ANGLE TOP LOAD | 2 |
| 8604 | 10-32 T NUT | 8 | 8551 | BAR HANDLE RIGHT ANGLE TOP LOAD | 1 | 8565 | BAR HANDLE ALL METAL | 2 | 8565 | BAR HANDLE ALL METAL | 4 |
| 8515DS | ALUMINIZED DECAL FOR 8515 SUBS ONLY | 1 | 8565 | BAR HANDLE ALL METAL | 2 | 8604 | 10-32 T NUT | 16 | 8604 | 10-32 T NUT | 8 |
| 8259D | "Y" LOGO ELITE SERIES LARGE DOMED | 1 | 8604 | 10-32 T NUT | 8 | 9897 | CABINET COVER, BLACK, 54" WIDE | 37.92 | 3803 | NYLON SECUR-A-TACH MINI PLASTIC TIE | 1 |
| 3543 | 20 PIN BRKAWAY 90 LOCK .156 | 0.2 | 3803 | NYLON SECUR-A-TACH MINI PLASTIC TIE | 1 | 3803 | NYLON SECUR-A-TACH MINI PLASTIC TIE | 1 | 8515DS | ALUMINIZED DECAL FOR 8515 SUBS ONLY | 1 |
| 3549 | TRIFURCON TERM .156 | 2 | 8515DS | ALUMINIZED DECAL FOR 8515 SUBS ONLY | 1 | 8515DS | ALUMINIZED DECAL FOR 8515 SUBS ONLY | 1 | 8259D | "Y" LOGO ELITE SERIES LARGE DOMED | 1 |
| 3558 | TERM HOUSING 4 CIR .156/RAMP | 1 | 8259D | "Y" LOGO ELITE SERIES LARGE DOMED | 1 | 8259D | "Y" LOGO ELITE SERIES LARGE DOMED | 1 | 3543 | 20 PIN BRKAWAY 90 LOCK .156 | 0.2 |
| 4597 | 22AWG STRAN TC WIR JMP | 10 | 3543 | 20 PIN BRKAWAY 90 LOCK .156 | 0.2 | 3543 | 20 PIN BRKAWAY 90 LOCK .156 | 0.2 | 3549 | TRIFURCON TERM .156 | 2 |
| 8729 | #4 X 3/8 FLAT QUAD TYPE A JS500 BLK | 4 | 3549 | TRIFURCON TERM .156 | 2 | 3549 | TRIFURCON TERM .156 | 2 | 3558 | TERM HOUSING 4 CIR .156/RAMP | 1 |
| 8801 | 6-32 X 3/8 PAN PH TAPTITE JS500 | 2 | 3558 | TERM HOUSING 4 CIR .156/RAMP | 1 | 3558 | TERM HOUSING 4 CIR .156/RAMP | 1 | 8602 | 1/4-20 T NUT | 26 |
| 8811 | #6 X 1 1/4 FLAT QDRX WS LR CLEAR ZN | 8 | 4597 | 22AWG STRAN TC WIR JMP | 10 | 8602 | 1/4-20 T NUT | 10 | 4597 | 22AWG STRAN TC WIR JMP | 10 |
| 8785 | #8 X 3/4 OVAL PH TYPE A BLACK OXIDE | 6 | 8729 | #4 X 3/8 FLAT QUAD TYPE A JS500 BLK | 4 | 4597 | 22AWG STRAN TC WIR JMP | 10 | 8729 | #4 X 3/8 FLAT QUAD TYPE A JS500 BLK | 4 |
| 8815 | 8-32 X 3/4 PAN PH TAPTITE JS500 | 4 | 8801 | 6-32 X 3/8 PAN PH TAPTITE JS500 | 2 | 8729 | #4 X 3/8 FLAT QUAD TYPE A JS500 BLK | 4 | 8801 | 6-32 X 3/8 PAN PH TAPTITE JS500 | 2 |
| 8756 | #10 X 3/4 PAN PH TYPE A BLACK OXIDE | 40 | 8785 | #8 X 3/4 OVAL PH TYPE A BLACK OXIDE | 6 | 8801 | 6-32 X 3/8 PAN PH TAPTITE JS500 | 2 | 8811 | #6 X 1 1/4 FLAT QDRX WS LR CLEAR ZN | 28 |
| 8781 | #10 X 7/8 FLAT PHIL TYPE A JS500BLK | 4 | 8815 | 8-32 X 3/4 PAN PH TAPTITE JS500 | 4 | 8811 | #6 X 1 1/4 FLAT QDRX WS LR CLEAR ZN | 32 | 8785 | #8 X 3/4 OVAL PH TYPE A BLACK OXIDE | 11 |
| 8786 | 10-32 X 1 1/4 PAN QD MS JS500 BLACK | 8 | 8756 | #10 X 3/4 PAN PH TYPE A BLACK OXIDE | 46 | 8785 | #8 X 3/4 OVAL PH TYPE A BLACK OXIDE | 11 | 8815 | 8-32 X 3/4 PAN PH TAPTITE JS500 | 4 |
| 8777 | #14 X 1 FLAT PH TYPE A JS500 M6 HEAD | 4 | 8786 | 10-32 X 1 1/4 PAN QD MS JS500 BLACK | 8 | 8815 | 8-32 X 3/4 PAN PH TAPTITE JS500 | 4 | 8753 | #10 X 1/2 PAN PH TYPE A JS500 BLACK | 14 |
| 8928 | #14X11/4 ALLEN FLHD WOOD SCRW JS500 | 6 | 8777 | #14 X 1 FLAT PH TYPE A JS500 M6 HEAD | 4 | 8756 | #10 X 3/4 PAN PH TYPE A BLACK OXIDE | 58 | 8756 | #10 X 3/4 PAN PH TYPE A BLACK OXIDE | 64 |
| 7458 | 18" 4R 800WPGM SPEAKER | 1 | 8928 | #14X11/4 ALLEN FLHD WOOD SCRW JS500 | 8 | 8786 | 10-32 X 1 1/4 PAN QD MS JS500 BLACK | 16 | 8786 | 10-32 X 1 1/4 PAN QD MS JS500 BLACK | 8 |
| 8820 | #8 FLAT WASHER JS500 | 8 | 8770 | 1/4-20 X 1 5/16 TRUSS PH MS JS500 | 10 | 8928 | #14X11/4 ALLEN FLHD WOOD SCRW JS500 | 8 | 8928 | #14X11/4 ALLEN FLHD WOOD SCRW JS500 | 8 |
| 3424 | DPDT SLID SW PCMT H GOLD CONTACTS | 1 | 7458 | 18" 4R 800WPGM SPEAKER | 1 | 8770 | 1/4-20 X 1 5/16 TRUSS PH MS JS500 | 10 | 8846 | 1/4-20 X 1 3/4 FLAT PH MS JS500 | 16 |
| | | | 3424 | DPDT SLID SW PCMT H GOLD CONTACTS | 1 | 7458 | 18" 4R 800WPGM SPEAKER | 2 | 8770 | 1/4-20 X 1 5/16 TRUSS PH MS JS500 | 10 |
| | | | | | | 3424 | DPDT SLID SW PCMT H GOLD CONTACTS | 1 | 7460 | 18" 4R1200WPGM SPEAKER DCR3.9R | 1 |
| | | | | | | | | | 3424 | DPDT SLID SW PCMT H GOLD CONTACTS | 1 |



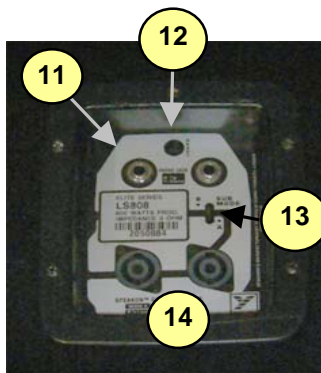
LS608

élite Subwoofer



| # | Part# | Description |
|---------------------------|-----------|--|
| Labeled Components | | |
| 1 | Z388 | LS608 GRILL |
| 2 | Z391 | LS608 GRILL BAR |
| 3 | 8929 | #14X11/4 ALLEN FLHD WOOD SCRW J |
| 4 | 8259D | "Y" LOGO ELITE SERIES LARGE DOMED |
| 5 | 8483 | ADAPTER, SPEAKER STAND, METAL, BLACK |
| 6 | 8565 | BAR HANDLE ALL METAL |
| 7 | 18/029Y4M | 18" 8R 800WPGM SPEAKER |
| 8 | 8569 | CORNER. 2 LEGS NO LIP BLACK OXIDE |
| 9 | 8562 | CORNER. 3 LEGS BLACK OXIDE |
| 10 | 8547 | PLASTIC FOOT BLACK, POLYETHYLEN |
| 11 | 3924 | 1/4" JCK PCB MT VERT 2XTIP |
| 12 | 2419 | 5.00 AMP CIRCUIT BREAKER PC MOUNT |
| 13 | 3424 | DPDT SLID SW PCMT H GOLD CONTAC |
| 14 | 3628 | SPKON 4C PCB MT VERT 250TAB GRY |
| 15 | 8536 | POCKET HANDLE, PLASTIC, TEARDROP (OLD) |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |

Note: Current model does NOT use a circuit breaker

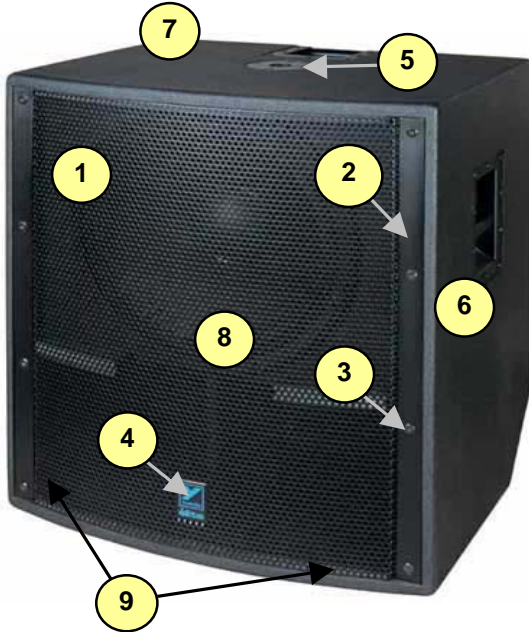


*NOTE: Replacement grills and supports are 'Special-Order' and are only available while the model is in production.

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Real People.**



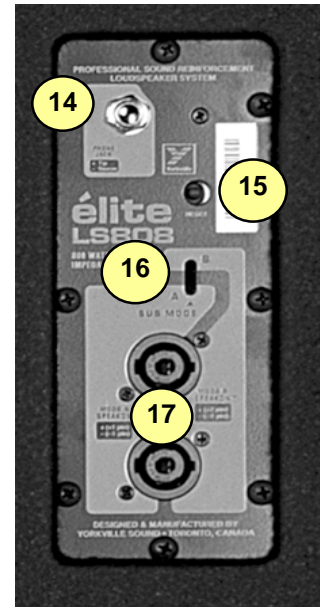
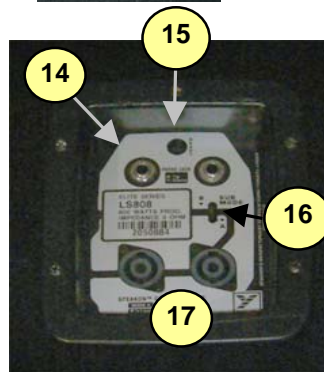
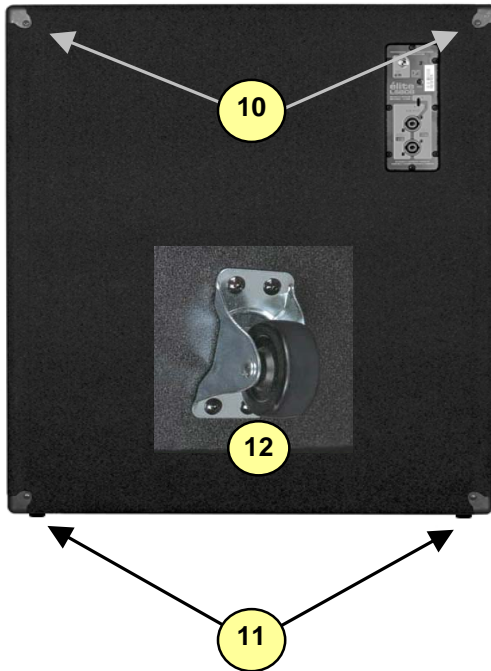
LS808 élite Subwoofer



| # | Part# | Description |
|---------------------------|-----------|--------------------------------------|
| Labeled Components | | |
| 1 | Z605 | LS808 GRILL |
| 2 | Z606 | LS808 GRILL BAR |
| 3 | 8929 | #14X11/4 ALLEN FLHD WOOD SCRW J |
| 4 | 8259D | "Y" LOGO ELITE SERIES LARGE DOMED |
| 5 | 8483 | ADAPTER, SPEAKER STAND, METAL, BLACK |
| 6 | 8565 | BAR HANDLE ALL METAL |
| 7 | 8551 | BAR HANDLE RIGHT ANGLE TOP LOAD |
| 8 | 18/029Y4M | 18" 8R 800WPGM SPEAKER |
| 9 | 8569 | CORNER. 2 LEGS NO LIP BLACK OXIDE |
| 10 | 8562 | CORNER. 3 LEGS BLACK OXIDE |
| 11 | 8545 | RECESSED RUBBER BUMPER WITH WASHER |
| 12 | 8579 | 4000 SERIES RIGID CASTER 822 |
| 13 | 8551 | BAR HANDLE RIGHT ANGLE TOP LOAD |
| 14 | 3924 | 1/4" JCK PCB MT VERT 2XTIP |
| 15 | 2419* | 5.00 AMP CIRCUIT BREAKER PC MOUNT |
| 16 | 3424 | DPDT SLID SW PCMT H GOLD CONTAC |
| 17 | 3628 | SPKON 4C PCB MT VERT 250TAB GRY |
| 18 | 8545** | RECESSED RUBBER BUMPER WITH WAS |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |

* Note: Current model does NOT use a circuit breaker

** Rubber feet used on 'wheeled' version

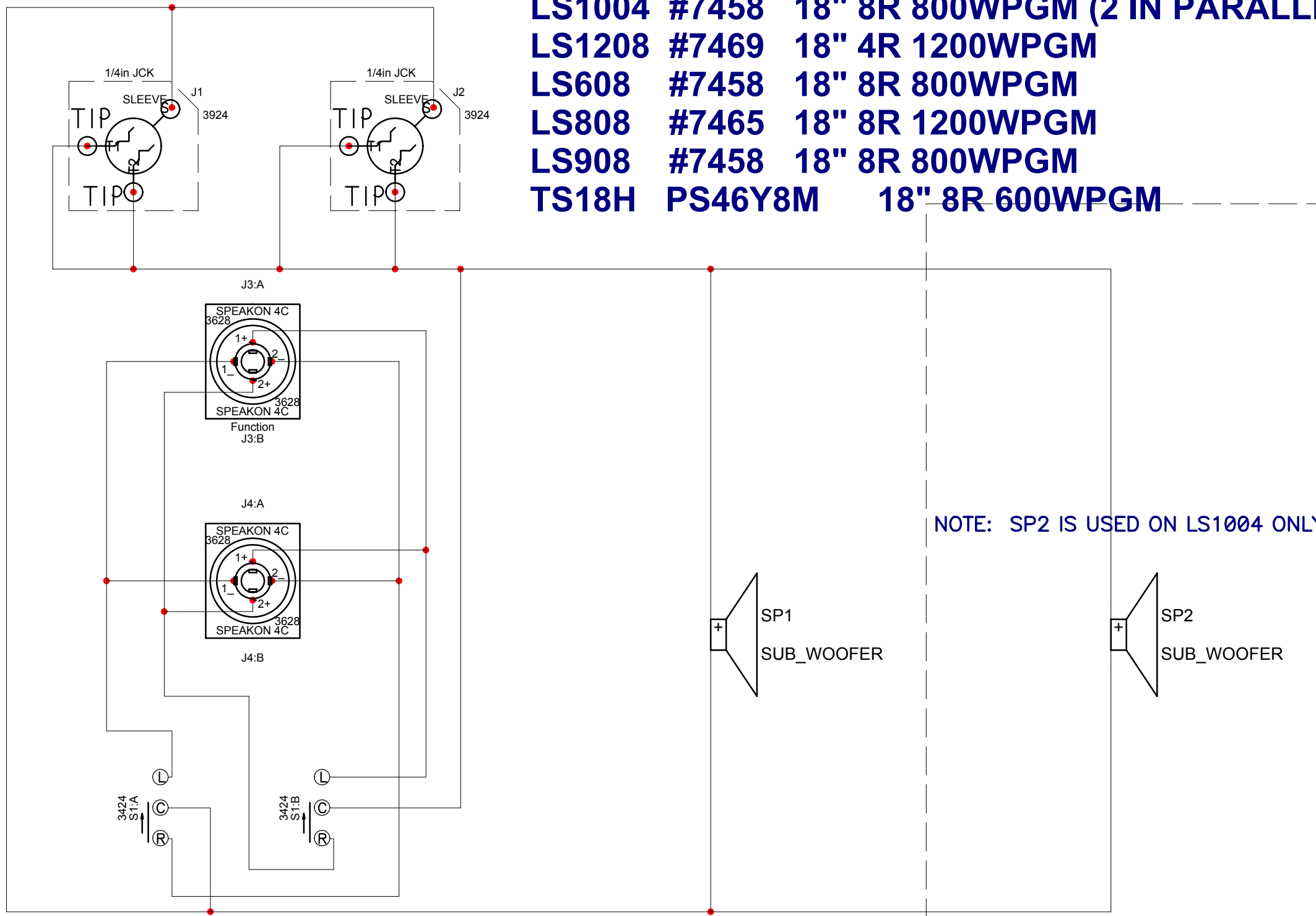


*NOTE: Replacement grills and supports are 'Special-Order' and are only available while the model is in production.

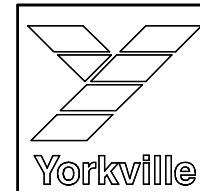
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Real People.**

SPEAKER LIST:

- LS1004 #7458 18" 8R 800WPGM (2 IN PARALLEL)
- LS1208 #7469 18" 4R 1200WPGM
- LS608 #7458 18" 8R 800WPGM
- LS808 #7465 18" 8R 1200WPGM
- LS908 #7458 18" 8R 800WPGM
- TS18H PS46Y8M 18" 8R 600WPGM

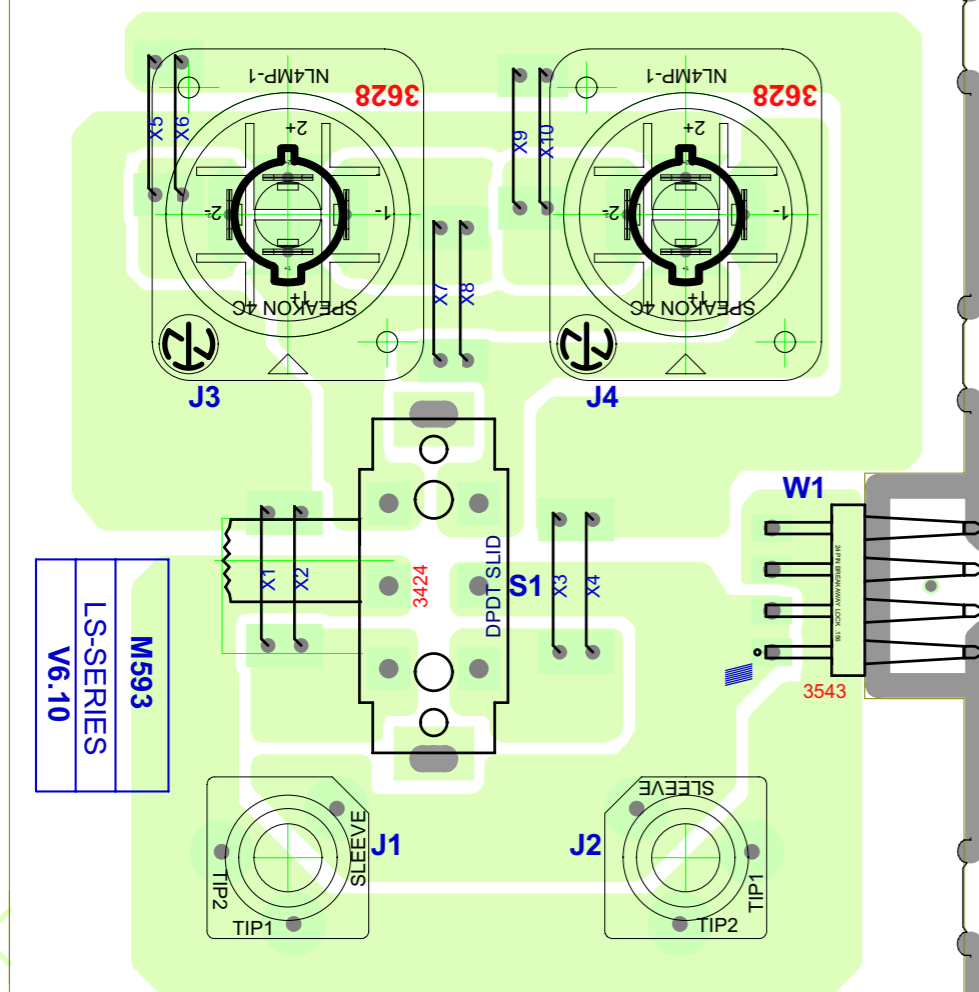


| M593.PCB_DATABASE_HISTORY | | | |
|---------------------------|-------------|-----------------------|--|
| MODEL(S):- | | LS SERIES SUB-WOOFERS | |
| # | DATE | VER# | DESCRIPTION OF CHANGE |
| 1 | NOV/2000 | 1.00 | UPDATED FOR SMALL DISH (M528 TO m593) |
| 2 | JUN 27 01 | 2.00 | MODIFIED FOR 6.5A BREAKER |
| 3 | SEP 20 01 | 3.00 | JUMPERS MOVED AWAY FROM JACK |
| 4 | APR 22 03 | 4.00 | REMOVE BREAKER (UPDATE TO PCAD2002) |
| 5 | FEB/10/05 | 5.00 | PC#6810. REDO SOLDERMASK (PCBM REQUEST) |
| 6 | JUN/15/05 | . | PC#6929 SPEAKER 18/029Y4M TO #7458 |
| 7 | . | . | PC#6930 SPEAKER 18/063Y4M TO #7460 |
| 8 | AUG-24-2005 | 6.00 | PC#6936:GT:ADDED ROUTEGAUGE,TARGETS,ETCH |
| 9 | FEB-23-2006 | 6.10 | PC#7082:GT:UPDATE #3543 HOLE SIZES |
| 10 | MAY-01-2006 | . | PC#7084:GT:LS1208 SPKR #7460->#7469 |
| 11 | D | V | N |
| 12 | D | V | N |
| 13 | D | V | N |

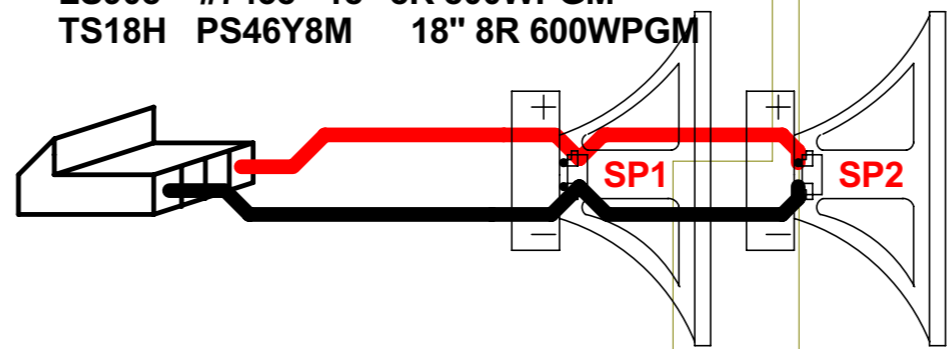


| | | |
|--|-----------|--------------|
| Product LS1004/1208/608/808/908 | | |
| LS SERIES SUBWOOFER | PCB# M593 | Sheet 1 of 2 |
| Date: Mon May 01, 2006 | | Rev: V6.10 |
| Filename: m593-LS-sub-woofers-6v10.sch2002 | | |

| M593 DRILL HISTORY | | | |
|--------------------|-------------|-----------------------|---|
| MODEL(S):- | | LS SERIES SUB-WOOFERS | |
| # | DATE | VER# | DESCRIPTION OF CHANGE |
| 1 | MAY-13-2003 | V07 | N |
| 2 | AUG-30-2005 | V08 | PC#6936:CHANGES FOR V6.00 (SEE HISTORY BOX) |
| 3 | FEB-23-2006 | V09 | PC#7082:GT:UPDATE #3543 HOLE SIZES |
| 4 | D | V | N |
| 5 | D | V | N |
| 6 | D | V | N |



- SPEAKER LIST:**
- LS1004 #7458 18" 8R 800WPGM (2 IN PARALLEL)
 - LS1208 #7460 18" 4R 1200WPGM
 - LS608 #7458 18" 8R 800WPGM
 - LS808 #7465 18" 8R 1200WPGM
 - LS908 #7458 18" 8R 800WPGM
 - TS18H PS46Y8M 18" 8R 600WPGM

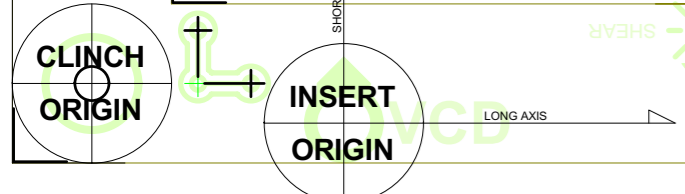


NOTE: SP2 IS USED ON LS1004 ONLY

| M593 HISTORY | | | |
|--------------|-------------|-----------------------|--|
| MODEL(S):- | | LS SERIES SUB-WOOFERS | |
| # | DATE | VER# | DESCRIPTION OF CHANGE |
| 1 | NOV/2000 | 1.00 | UPDATED FOR SMALL DISH (M528 TO m593) |
| 2 | JUN 27 01 | 2.00 | MODIFIED FOR 6.5A BREAKER |
| 3 | SEP 20 01 | 3.00 | JUMPERS MOVED AWAY FROM JACK |
| 4 | APR 22 03 | 4.00 | REMOVE BREAKER (UPDATE TO PCAD2002) |
| 5 | FEB/10/05 | 5.00 | PC#6810. REDO SOLDERMASK (PCBM REQUEST) |
| 6 | JUN/15/05 | . | PC#6929 SPEAKER 18/029Y4M TO #7458 |
| 7 | . | . | PC#6930 SPEAKER 18/063Y4M TO #7460 |
| 8 | AUG-24-2005 | 6.00 | PC#6936:GT:ADDED ROUTEGAUGE,TARGETS,ETCH |
| 9 | FEB-23-2006 | 6.10 | PC#7082:GT:UPDATE #3543 HOLE SIZES |
| 10 | MAY-01-2006 | . | PC#7084:GT:LS1208 SPKR #7460->#7469 |
| 11 | D | V | N |
| 12 | D | V | N |
| 13 | D | V | N |

| M593 PENDING CHANGES | | |
|----------------------|-----|-----------------------|
| MODEL(S):- | | LS SERIES SUB-WOOFERS |
| # | PC# | PENDING CHANGE |
| 1 | PC | X |
| 2 | PC | X |
| 3 | PC | X |
| 4 | PC | X |
| 5 | PC | X |
| 6 | PC | X |

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



Pcb Mech M593V6.10
Top Assy M593V6.10

StepAndRepeat - X3@3.700,Y2@4.625

BlankSize - 12.250"x10.450"