

CLASSIC TWINS

PCH-34T2 PCH-34T2D

PCH-44T2 PCH-44T2D

PCH-54T2 PCH-54T2D

PCH-64T2 PCH-694T2

PCH-54T2U

PCH-464T2

PCH-4104T2

INSTALLATION & OPERATIONS MANUAL



Dear Customer,

Congratulations on your purchase of America's finest brand of car audio components. At Rockford Fosgate we are committed to musical reproduction at its best, and we are pleased you chose our product. Through years of engineering expertise, hand craftsmanship and critical testing procedures we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your new Rockford Fosgate product installed by an Authorized Rockford Fosgate Dealer, as we provide specialized training through Rockford Technical Training Institute (RTTI). Please read your warranty and retain your receipt and original carton for possible future use.

To add the finishing touch to your new Rockford Fosgate image order your Rockford accessories, which include everything from T-shirts and jackets to hats and sunglasses.

To get a free brochure on Rockford Fosgate products and Rockford accessories, please call 1-800-669-9899 or FAX 1-800-398-3985 in the U.S. For Canada, call Korbon Trading at 905-567-1920. For international orders FAX 001-1-602-967-8132 or call 001-1-602-967-3565.

PRACTICE SAFE SOUND™

CONTINUOUS EXPOSURE TO SOUND PRESSURE LEVELS OVER 100dB MAY CAUSE PERMANENT HEARING LOSS. HIGH POWERED AUTO SOUND SYSTEMS MAY PRODUCE SOUND PRESSURE LEVELS WELL OVER 130dB. USE COMMON SENSE AND PRACTICE SAFE SOUND.

If, after reading your manual, you still have questions regarding this product, we recommend that you see your Rockford Fosgate dealer. If you need further assistance, you can call us direct at 1-800-795-2385. Be sure to have your serial number, model number and date of purchase available when you call.

The serial number can be found on the outside of the box. Please be sure to record it in the space provided below as your permanent record. This will become useful in recovering your product if ever stolen and serve as verification of your factory warranty.

Serial Number: _____

Model Number: _____

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PUNCH CLASSIC TWINS CONTENTS

- 1 Pair of Punch Classic Twins
- 1 Pair Grilles (not included on PCH-34T2/34T2D/44T2D/54T2D/
PCH-464T2/PCH-4104T2)
- Mounting Hardware
- Manual

INTRODUCTION

This manual contains information on the construction, installation and operation of the Punch Classic Twins two-way speakers. We recommend you keep this manual for future reference.

The Punch Classic Twins are two-way speakers designed to improve the performance of the factory installed car stereo system. Sized to fit most automotive applications, the Punch Classic Twins provide the first step in realizing an upgrade to the factory system.

DESIGN FEATURES

Neodymium Tweeter (PCH34T2/34T2D/44T2/44T2D/54T2/54T2U)
The use of the neodymium tweeter offers smooth, extended high frequency output even at high levels. The tweeters are mounted on an aluminum post to dissipate heat which, when combined with the use of ferrofluid, improves the tweeter's power handling capability.

PVA Treated Paper Cone – The lightweight paper cones are treated with PVA (Polyvinyl Acetate) for environmental stability and increased rigidity. This allows smooth midrange performance with lower frequency extension free of distortion.

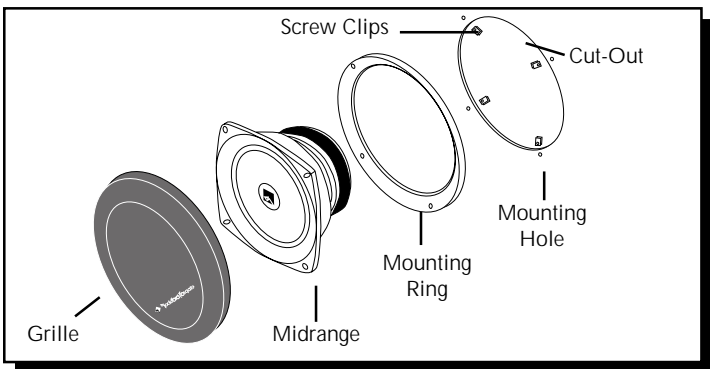
Suspension – The suspension holds the cone to the basket and supports the voice coil in the magnetic gap. The suspension should allow the cone to move in and out freely but not allow side to side motion. The Punch Classic Twins all use a precision rolled foam surround for the front and (except for the PCH-34T2/34T2D/44T2D/54T2U) a flat design spider for the rear.

Voice Coil – The voice coil is the core of the speaker's power handling. The wire used is high temperature copper wound on an anodized aluminum former. The wire itself will withstand high operating temperatures and the former will conduct the heat away from the coil improving the thermal capacity.

INSTALLING THE PUNCH CLASSIC TWINS

Since some of these Punch Classic Twins are most often used as direct replacements for stock speakers and are shipped without grilles, some of the following instructions will not apply. For custom installations see your Authorized Rockford Fosgate Dealer.

1. Determine where the speakers will be mounted. Ensure an area large enough for the speaker to mount evenly. Be sure that the mounting location is deep enough for the speaker to fit; if mounting in a door, operate all functions (windows, locks, etc.) through their entire operating range to ensure there is no obstruction.
2. Refer to the specification chart to determine the proper diameter hole to cut for your speaker model.
3. Using the plastic mounting ring as a template, mark the locations for the mounting screws. Drill the holes with a 1/8" bit.
4. Slip the screw clips over the holes that were just drilled with the flat side on the outer face.
5. Feed the speaker wires through the cutout and the plastic mounting ring (from the flat side) and connect to the speaker terminals. Be sure to observe proper polarity when connecting the wires. The speaker's positive terminal is indicated with a dot.
6. Fit the ring and speaker to the cutout. Mount them using the enclosed screws. Fit the grille inside the ring and press gently, but firmly, into place.



SPECIFICATIONS

Model	PCH34-T2	PCH-34T2D	PCH44-T2	PCH44-T2D	PCH-54T2	PCH-54T2D	PCH-64T2
Nom. Impedance	4	4	4	4	4	4	4
Frequency Response	164Hz-20kHz	240Hz-20kHz	100Hz-20kHz	110Hz-20kHz	87Hz-20kHz	100Hz-20kHz	84Hz-20kHz
Resonance Frequency	164	240	100	110	87	103	84
Power (Watts RMS)	50	50	50	50	80	80	100
SPL (dB @ 1w/1m)	84.6	86.4	89	88	90	90	90
Nominal Dia. (in.)	3	3	4	4	5	5	6
Mntg. Dia. (in.)	2-7/8	3	3-13/16	3-15/16	4-7/8	4-5/7	5-1/16
Mntg. Dia. (mm)	75.4	86.5	96.8	100	123.8	119.4	128.6
Mntg. Depth (in.)	1-2/5	1-1/4	1-3/4	1-5/8	2-5/8	2	2-1/8
Mntg. Depth (mm)	35.7	31.8	44.5	41.3	66.7	50	54
QTS	1.4	2.33	0.47	0.72	0.44	0.58	0.63
VAS (ft ³)	0.028	0.021	0.092	0.105	0.131	0.14	0.311
X-MAX (in)	0.016	0.016	0.063	0.063	0.047	0.094	0.126

SPECIFICATIONS

Model	PCH-694T2	PCH54T2U	PCH464T2	PCH4104T2
Nom. Impedance	4	4	4	4
Frequency Response	65Hz-20kHz	88Hz-20kHz	112Hz-20kHz	62Hz-20kHz
Resonance Frequency	65	88	112	62
Power (Watts RMS)	100	50	50	50
SPL (dB @ 1w/1m)	94	89.5	89.6	90
Nominal Dia. (in.)	6x9	5	4x6	4x10
Mntg. Dia. (in.)	8-3/4x6	4-23/32	5-19/32	9-17/32
Mntg. Dia. (mm)	222.3x152.4	119.8	141.7	242.1
Mntg. Depth (in.)	3-2/7	1-15/16	1-29/32	2-15/16
Mntg. Depth (mm)	83.3	49.2	46.4	74.6
QTS	0.37	0.56	0.66	0.47
VAS (ft ³)	0.844	0.198	0.109	0.484
X-MAX (in)	0.094	0.031	0.094	0.157

WARRANTY INFORMATION

Rockford Fosgate warrants all loudspeakers to the original purchaser for a period of two (2) years parts and labor, providing the product was purchased from an Authorized Rockford Fosgate Dealer. Speakers found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Rockford Fosgate's discretion. ***Repaired or replaced speakers will cover the balance of the original warranty period only.*** Warranty applies only to original purchaser and is non-transferable. Warranty does not cover abuse or installation error. If a determination is made that the product has been abused or is out of the warranty period, it will be repaired, exchanged, and billed. Parts not covered under warranty will be repaired or replaced and billed. For speaker boxes, please return the speaker only. Serial number must be intact to obtain warranty. Speakers must be returned prepaid to Grand Rapids, Michigan.

GENERAL

Electronics and speaker warranties do not cover any appearance item, any cost or expense related to the removal or reinstallation of the product, any accessory used in conjunction with the product, damage to the product resulting from alteration, accident, misuse or abuse, or improper installation. This warranty does not apply if the parts or labor, which would otherwise be provided without charge under this warranty, are obtained from any source other than Rockford Fosgate or an Authorized Rockford Fosgate Service Center.

The warranty is the only express warranty and does not create any implied warranties. Rockford Fosgate limits its obligations under any implied warranties under state laws to a period not to exceed the written warranty period. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply. This warranty applies only to products sold in the United States of America or its possessions. For warranty outside the U.S.A., please contact the nearest Authorized Rockford Fosgate Dealer. This warranty gives the consumer specific legal rights, and the consumer may have other rights which vary from state to state.

A defective product must be shipped prepaid to the Authorized Rockford Fosgate Dealer from which the consumer purchased the product or to the address below, in the original factory carton or equivalent. Any shipping loss or damage will be borne by the consumer or the consumer's shipper. **A consumer returning a product to the factory should call (800) 669-9899 for a Return Authorization Number.** All shipments shall be clearly marked with the Return Authorization Number on the outside of the shipping carton.

Rockford Corporation
609 Myrtle N.W.
Grand Rapids, MI 49504 (Receiving-speakers)

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Rockford Fosgate
Rockford Corporation
546 South Rockford Drive
Tempe, Arizona 85281 U.S.A.
In U.S.A., (602) 967-3565
In Canada, call Korbon (905) 567-1920
In Europe, Fax (49) 4207-801250
In Japan, Fax (81) 559-79-1265