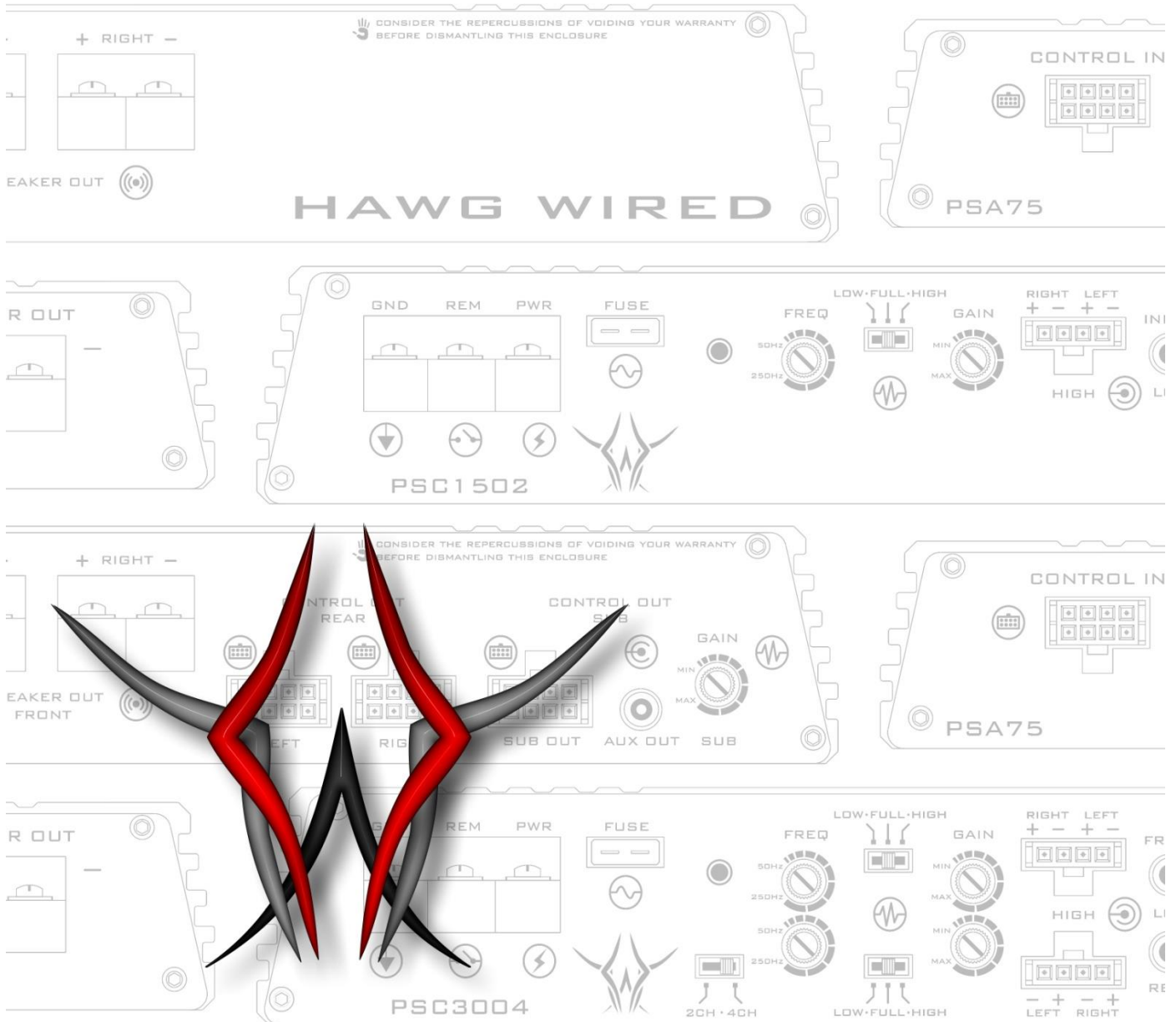


DESIGNED AND BUILT IN THE U.S.A.
HAWG WIRED

DCS4002 AMPLIFIER SYSTEM



INSTALLATION GUIDE

INTRODUCTION

CONGRATULATIONS! YOU'VE JUST PURCHASED WHAT WE CONSIDER TO BE THE FINEST MOTORCYCLE AUDIO EQUIPMENT AVAILABLE. WE TAKE PRIDE IN THE FACT THAT YOU'VE CHOSEN HAWG WIRED PRODUCTS, AND WELCOME YOU TO OUR FAMILY OF AUDIOPHILE ENTHUSIASTS. OUR GOAL HERE IS SIMPLE - TO BRING HIGH PERFORMANCE AUDIO FIDELITY TO YOU, THE RIDER, WITHOUT COMPROMISING YOUR BIKE'S ELECTRICAL SYSTEM OR STORAGE SPACE. SOME SIDE EFFECTS MAY OCCUR HOWEVER, INCLUDING BUT NOT LIMITED TO; PUZZLED LOOKS FROM OTHER MOTORISTS, OCCASIONAL SHOUTS FROM YOUR NEIGHBORS, AND THE ENVY OF YOUR FRIENDS. AFTER YEARS OF DESIGN AND ENGINEERING, CUSTOM CRAFTSMANSHIP, AND A CRAVE FOR CLEAN, CLEAR, LOUD MUSIC, WE BELIEVE WE'VE NAILED THIS STUFF DOWN RIGHT.

THANK YOU FOR YOUR SUPPORT
THE HAWG WIRED TEAM



SERIAL NUMBER

PLEASE RECORD THE MODEL AND SERIAL NUMBER[S] OF YOUR EQUIPMENT IN THE SPACE PROVIDED BELOW AS YOUR PERMANENT RECORD. THESE NUMBERS CAN BE FOUND ON THE FRONT AND/OR BOTTOM OF EACH COMPONENT. THIS WILL ASSIST US WITH YOUR FACTORY WARRANTY COVERAGE, AND MAY BE USEFUL TO YOU IN THE UNFORTUNATE EVENT THAT IT'S STOLEN.

MODEL NUMBER[S]:	SERIAL NUMBER[S]:
_____	_____
_____	_____
_____	_____

KEY DESIGN FEATURES

HAWG WIRED AMPLIFIER SYSTEMS INCORPORATE THE FOLLOWING KEY DESIGN FEATURES:

- CLASS-D DIGITAL DESIGN MAKES FOR EFFICIENT POWER USAGE AND LOW HEAT DISSIPATION
- CREATES CLEAN, RAW POWER WITHOUT OVER-TAXING TAXING THE BATTERY OR CHARGING SYSTEM
- INDUSTRY STANDARD INTERFACE MAKE FOR ACROSS-THE-BOARD COMPATIBILITY
- BUILT-IN CROSSOVER CIRCUITRY FOR OPTIMAL LOUDSPEAKER PERFORMANCE
- CONFORMAL COATED WEATHERPROOF PRINTED CIRCUIT BOARDS IN EVERY COMPONENT
- DIRECT CONNECT HARNESSSES MAKE FOR A PROFESSIONAL, CLEAN, AND EASY INSTALLATIONS

THIS AMPLIFIER HAS BEEN DESIGNED TO FIT INSIDE BOTH THE BATWING AND SHARKNOSE HARLEY-DAVIDSON® FAIRINGS. THE WIRING HARNESS INCLUDED HAS BEEN DESIGNED SPECIFICALLY FOR YOUR YEAR AND MODEL OF MOTORCYCLE. BE SURE THAT YOU HAVE THE CORRECT HARNESS FOR YOUR SPECIFIC APPLICATION.

KIT CONTENTS

KIT ITEMS INCLUDED (BY QUANTITY):	DCS4002
RSX400 2 CHANNEL MAIN AMPLIFIER	1
DGM1 MODULE	1
AMPLIFIER MOUNTING BRACKET	1
DCS MODULE MOUNTING SPACER	1
HARDWARE KIT	1

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BEFORE YOU BEGIN





THIS SECTION IS INTENDED TO BRING YOU UP TO SPEED WITH OUR DOCUMENTATION CONVENTIONS. WE RECOMMEND READING THIS MANUAL THOROUGHLY BEFORE BEGINNING YOUR INSTALLATION TO ACHIEVE A TROUBLE-FREE AND LONG-LASTING OUTCOME.

TERMINOLOGY USED IN THIS MANUAL:

SOURCE UNIT	REFERS TO THE DEVICE THAT SUPPLIES THE AMPLIFIER WITH AUDIO INPUT, TYPICALLY YOUR RADIO, HEAD UNIT, MEDIA DEVICE, ETC.
MAIN AMPLIFIER	RSX400, MASTER 2 CHANNEL AMPLIFIER. THE BIG (LITTLE) BLACK BOX ON THE BRACKET.
DIRECT CONNECT MODULE	USED TO CONNECT THE AMPLIFIER TO YOUR AUDIO SYSTEM. DESIGNED SPECIFICALLY FOR YEAR, MAKE, AND MODEL COMPATIBILITY.
BATWING FAIRING	HARLEY-DAVIDSON® TERM FOR THE FAIRINGS ON ELECTRA GLIDE MODELS, FORK MOUNTED, SINGLE HEADLIGHT STYLE.
SHARKNOSE FAIRING	HARLEY-DAVIDSON® TERM FOR THE FAIRINGS ON ROAD GLIDE MODELS, FRAME MOUNTED (FIXED), DUAL HEADLIGHT STYLE.
MANUFACTURER INSTRUCTIONS	REFERS TO ANY DOCUMENTATION PROVIDED BY A MANUFACTURER OTHER THAN HAWG WIRED (IE. HARLEY-DAVIDSON® SHOP REPAIR MANUAL, AFTERMARKET SOURCE UNIT OR SPEAKER MANUAL, ETC.).

QUICK CONNECT SYMBOLS:

KEEP AN EYE OUT FOR THE “QUICK CONNECT” SYMBOLS THROUGHOUT THIS MANUAL; THEY PROVIDE A VISUAL LINK BETWEEN INSTRUCTIONS, DIAGRAMS, AND THE SYSTEM COMPONENTS.

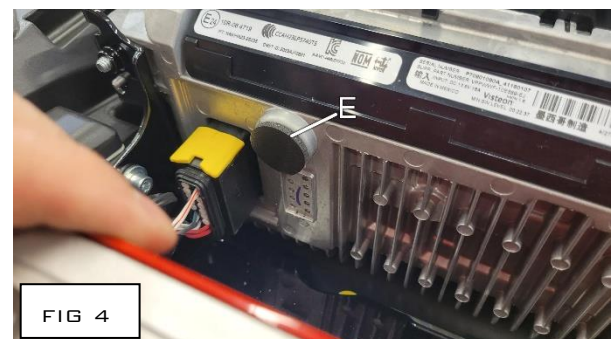
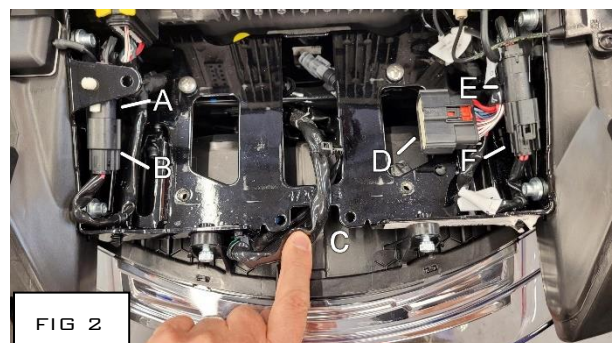
FUSE		ESSENTIAL PROTECTION FROM SHORTS
HARNESS		DIRECT CONNECT HARNESS CONNECTIONS
LINE-IN		SOURCE INPUT, LOW LEVEL OR HIGH-LEVEL INPUT
POWER		POWER INDICATOR, RED LED ON FACEPLATE

NOTE: IF ANYTHING ABOUT THE INSTRUCTION OR INFORMATION PROVIDED IN THIS MANUAL IS UNCLEAR, QUESTIONABLE, OR YOU THINK WE'RE DEAD WRONG ABOUT SOMETHING, PLEASE CONTACT US.

INSTALLATION INSTRUCTIONS

TEAR-DOWN AND INSTALLATION

1. WITH THE IGNITION SWITCH OFF, REMOVE THE FRONT OUTSIDE FAIRING.
2. REPLACE THE TWO TOP HEADLIGHT SCREWS WITH THE PROVIDED 5/8" SCREWS AND WASHERS. SEE FIG 9 "C". YOU WILL NOT NEED THESE SCREWS FOR INSTALLATION.
3. UNPLUG AND REMOVE THE STOCK HD AMPLIFIER OFF THE MAIN FAIRING SUPPORT PLATE. YOU WILL NOT NEED THESE SCREWS FOR INSTALLATION.
4. UNPLUG THE TOP CONNECTOR (BROWN, USB) ON CLUTCH SIDE FROM THE BACK OF THE VISTEON RADIO. SEE FIG 1.
5. DISCONNECT SPEAKER CABLES FROM LEFT AND RIGHT SPEAKER BUCKET CABLES. THESE CAN BE TUCKED UNDER THE MAIN BRACKET FOR A CLEANER LOOK, OR LEFT ABOVE. SEE FIG 2 "B" & "F".
6. MOVE THROTTLE SIDE SPEAKER CONNECTOR FROM UNDER THE BRACKET IT'S ATTACHED TO, TO THE TOP. PRESS THE BARBED TIE-WRAP BACK INTO THE HOLE. SEE FIG 2 "A".
7. REMOVE CLUTCH SIDE SPEAKER CONNECTOR FROM THE TOP SIDE OF THE BRACKET IT IS ATTACHED TO. DO NOT RE-INSERT BARBED TIE-WRAP INTO HOLE. SEE FIG 2 "E".
8. MOVE HEADLIGHT CABLE CLOSER TO THE NOSE OF THE FAIRING AND STORE EXCESS HARNESS UNDER THE MAIN FAIRING SUPPORT PLATE. SEE FIG 2 "C".
9. MOUNT STOCK HD AMPLIFIER (SILVER ONLY) TO THE HAWG WIRED AMPLIFIER BRACKET USING THE SUPPLIED HARDWARE. SEE FIG 3 & FIG 8 "A". USE THE BARREL SCREWS THROUGH THE FACTORY AMP, MACHINE SCREWS WITH WASHERS THROUGH THE REAR OF THE BRACKET.
10. PLACE ROUND RUBBER PAD ONTO ROUND POST OF VISTEON RADIO. SEE FIG 4 "E".
11. INSTALL THE TWO LARGE TRUSS SCREWS WITH THE PLASTIC WASHERS IN THE REAR FACTORY AMP MOUNTING LOCATIONS. SEE FIG 5 & FIG 8, "B". ALIGNING THE KEY-HOLE OPENINGS OVER THE TRUSS SCREWS, SLIDE AMPLIFIER BRACKET TOWARDS THE THROTTLE SIDE. USING THE TWO 1/4-20 FLATHEAD SCREWS, ATTACH FRONT OF BRACKET PLACING ONE THROUGH THE MODULE SPACER ON THE CLUTCH SIDE. SEE FIG 5 "B".
12. PLACE TWO SQUARE RUBBER PADS ONTO FACTORY AMP. SEE FIG 5.
13. ATTACH THE TWO POWER WIRES FROM THE AMPLIFIER TO THE DCM1. USE RED FOR "+", AND BLACK FOR "-". THE AMPLIFIER AND DCM1 ARE BOTH MARKED WITH THE POSITIVE & NEGATIVE SYMBOLS. SEE FIG 8 "C" & "E". CONNECT THE HIGH-LEVEL INPUT CABLE TO THE AMPLIFIER AND TO THE DCM1. SEE FIG 8 "A" & "H".



14. POSITION DCS MODULE ONTO DCS SPACER USING VELCRO. POSITION TOWARDS THE CLUTCH AND CLOSE TO FRONT OF MAIN BRACKET. CONFIRM DCS IS POSITIONED SO THAT THERE IS NO EXCESS PRESSURE TO WIRES AND SURROUNDING HARNESSES/CONNECTORS. SEE FIG 7.

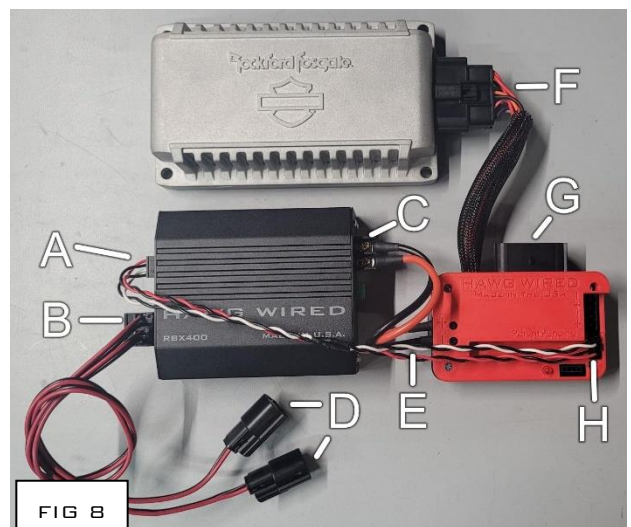
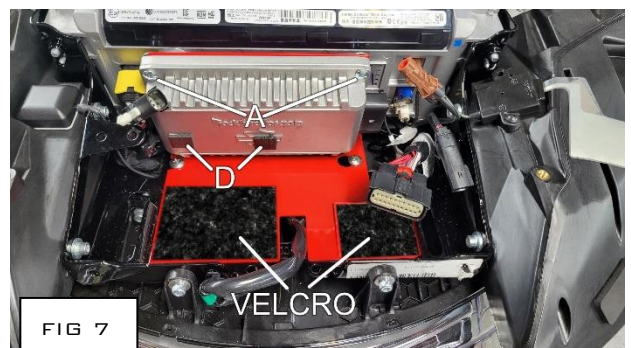
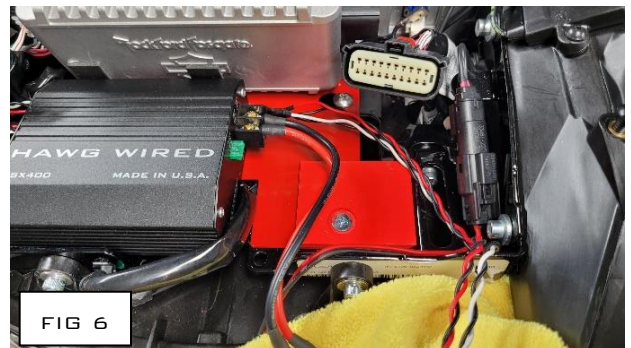
15. INSTALL HAWG WIRED AMP ONTO AMPLIFIER BRACKET USING VELCRO. POSITION VELCRO ALONG THE LEFT (THROTTLE SIDE) EDGE OF THE BRACKET AND THE FRONT EDGE OF THE BRACKET. SEE FIG 7.

16. CONNECT DCS MODULE CABLE TO HD AMP. SEE FIG 9 "F". CONNECT THE VISTEON CABLE TO THE DCM1 MODULE. **NOTE: THE POWER WIRES ARE HOT AS SOON AS YOU CONNECT THE VISTEON CABLE TO THE DCM1. SEE FIG 2 "D".**

17. STRIP ENDS OF THE SPEAKER OUTPUT CABLES. SEE FIG 9 "D" & "E". INSTALL INTO 4-PIN HEADER. SEE FIG 9 "B". **NOTE: INSERT ONE CABLE INTO THE LEFT CHANNEL WITH THE RED WIRE ON POSITIVE AND THE BLACK WIRE ON NEGATIVE. REPEAT FOR THE OTHER CHANNEL. INSTALL SPEAKER OUTPUT CABLE BY CONNECTING THE 4-PIN HEADER TO AMP, FOLLOWED BY CONNECTING THE LEFT AND RIGHT CONNECTOR ENDS TO FACTORY SPEAKER BUCKET PLUGS. SEE FIG 9 "B" & FIG 2 "A" & "E". **NOTE: AMP CHANNELS ARE LABELED RIGHT & LEFT. SEE FIG 9 "B".****

18. RE-CONNECT TOP CONNECTOR ON CLUTCH SIDE ON BACK OF VISTEON RADIO (BROWN, USB) SEE FIG 1.

19. INSTALL 4 PIECES OF GASKETS ON EACH SPEAKER. INSTALL SPEAKERS WITH X-OVER (BOARD ON THE BACK OF THE SPEAKER) ROTATED SO X-OVER BOARDS ARE FACE UP, AT 12 O'CLOCK.



TESTING AND TUNING THE SYSTEM

1. PERFORM A BASIC SYSTEM TEST. TURN THE KEY TO THE ACCESSORY POSITION AND VERIFY THAT THE DCM1 AND THE AMPLIFIER POWER UP. THE LED ON THE DCM1 AND THE LED ON THE AMPLIFIER SHOULD BE ON. VERIFY YOU HAVE AN AUDIO SOURCE SELECTED AND VOLUME IS ABOVE ZERO. YOU SHOULD HEAR AUDIO PLAYING THROUGH THE SPEAKERS. IF THERE IS NO SOUND, REVIEW EACH STEP AND CONFIRM ALL CONNECTIONS ARE MADE AND SECURE. IF IT STILL DOESN'T WORK, CALL OR EMAIL FOR HAWG SUPPORT.

2. SETTING THE GAIN AND CROSSOVER OF THE AMPLIFIER. FIRST SET THE CROSSOVER AROUND 10:30. CAN BE SET HIGHER OR LOWER, BUT 10:30 SEEMS LIKE THE BEST COMPROMISE. HIGHER, AND YOU LOSE SOME BASS, BUT CAN ACHIEVE HIGH VOLUMES, WHILE LOWER YOU CAN GAIN SOME BASS, BUT THEN THE GAIN WILL HAVE TO BE SET LOWER TO AVOID DAMAGE TO THE SPEAKERS WITH TOO MUCH BASS AT HIGH VOLUMES. THE BEST WAY TO SET THE GAIN IS TO SELECT A MUSIC SOURCE AT THE BEGINNING OF A TRACK. THEN, UNPLUG THE 4-PIN SPEAKER OUTPUT CONNECTOR ON THE AMP SO THE SPEAKERS ARE NOT CONNECTED. WITH THE SPEAKERS DISCONNECTED AND A TRACK PLAYING (NO SOUND SHOULD BE HEARD DURING THE FOLLOWING ADJUSTMENT), TURN THE RADIO ALL THE WAY UP. THEN SET THE GAIN TO WHERE THE CLIP LIGHT ON THE AMP IS JUST BEGINNING TO BLINK AND BACK IT OFF TILL IT STOPS BLINKING. THEN TURN THE VOLUME ON THE RADIO BACK DOWN TO ZERO AND RECONNECT THE SPEAKER CONNECTOR TO THE AMP. TURN VOLUME UP AND VERIFY VOLUME IS CLEAN AT HIGH VOLUME. IF AT ANYTIME THERE IS DISTORTION, TURN THE VOLUME DOWN AND RE-CHECK YOUR GAIN SETTING.

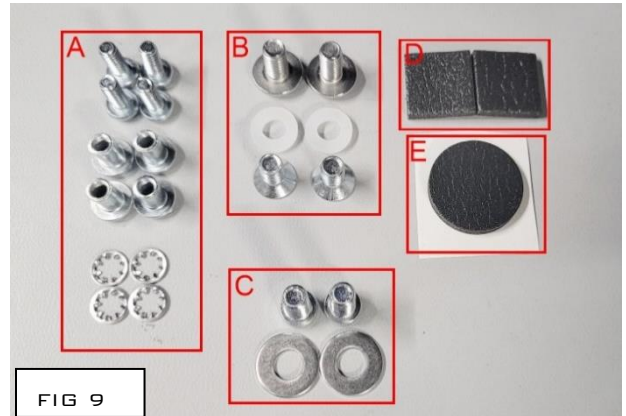


FIG 9



FIG 10

WRAPPING IT UP

1. WITH THE IGNITION OFF, INSTALL THE FAIRING COVER, ENSURING THAT EACH ATTACHING SCREW GOES BACK INTO THE HOLE IT CAME OUT OF. ONCE YOU HAVE EVERYTHING LINED UP AND ALL SCREWS LOOSELY INSTALLED, TIGHTEN EACH SCREW IN AN EVEN PATTERN TO AVOID BINDING.

WARNING: AVOID OVER-TIGHTENING; PLASTIC THREADS HAVE A TENDENCY TO PULL OUT EASILY. REFER TO MANUFACTURER INSTRUCTIONS IF NECESSARY.

2. PERFORM A FINAL SYSTEM TEST. TURN THE KEY TO THE ACCESSORY POSITION AND VERIFY THAT ALL FUNCTIONS STILL WORK AS EXPECTED.

3. PERFORM A TEST RIDE AND AGAIN VERIFY THAT THE SYSTEM IS OK, AND THAT YOUR FRIENDS ARE SUFFICIENTLY JEALOUS.

TIP: JUSTIN WOULD LIKE TO REMIND YOU TO CHECK YOUR TIRE PRESSURE, AND FROM THE ENTIRE HAWG WIRED TEAM, THANKS FOR MAKING THIS POSSIBLE. KEEP THE RUBBER SIDE DOWN, AND CRANK IT!

SPECIFICATIONS

DCM1

MAIN INPUT: VISTEON 20 PIN CONNECTOR
 MAIN OUTPUT: VISTEON 20 PIN CABLE
 AUDIO HIGH-LEVEL OUTPUT:..... 6-WATT 12V PP
 POWER TERMINAL:.....PASS-THRU 40 AMP TERMINALS
 REAR SPEAKER OUTPUT TERMINAL: 4 PIN HEADER

RSX400

INPUT CHANNELS:..... 2 HIGH AND LOW LEVEL
 OUTPUT CHANNELS: 2 CHANNELS
 NOMINAL OUTPUT IMPEDANCE: 4/2 OHMS
 NOMINAL POWER OUTPUT (WATTS RMS): .. 200 (2 X 100) WATTS @ 4 OHM/200 (2 X 200) WATTS @ 2 OHM
 FREQUENCY RESPONSE: 10HZ-50KHZ
 LOW LEVEL (RCA LINE-IN) SENSITIVITY: 200MV - 6V
 HIGH LEVEL (SPEAKER-IN) SENSITIVITY:..... 400MV - 12V
 INPUT IMPEDANCE:..... 33K OHMS

CASE DIMENSIONS

MAIN AMPLIFIER:..... 6.50" W X 3.75" D X 1.50" H

OUR AMPLIFIER TECHNOLOGY FEATURES CLASS-D® DIGITAL AMPLIFIERS,
 UNCOMPROMISED SOUND QUALITY TYPICALLY: 0.010% THD+N @ 60W 4Ω
 OVER-CURRENT AND OVER-TEMPERATURE PROTECTION, TURN-ON AND TURN-OFF POP SUPPRESSION
 CONFORMAL COATED WEATHERPROOF PRINTED CIRCUIT BOARD(S)

NX652-150

NOMINAL IMPEDANCE: 2 OHMS
 NOMINAL POWER RATING: 150 WATTS RMS
 FREQUENCY RESPONSE: 50HZ-18KHZ

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

WARRANTY INFORMATION

HAWG WIRED OFFERS A LIMITED WARRANTY OF OUR PRODUCTS ON THE FOLLOWING TERMS:

- **LENGTH OF WARRANTY**

1 YEAR ON AUDIO SYSTEMS, ELECTRONICS, SPEAKERS, AND ACCESSORIES (RECEIPT REQUIRED).

- **COVERAGE**

THIS WARRANTY COVERS ONLY THE ORIGINAL PURCHASER OF A HAWG WIRED PRODUCT PURCHASED FROM AN AUTHORIZED HAWG WIRED DEALER IN THE UNITED STATES. IN ORDER TO RECEIVE SERVICE, THE PURCHASER MUST PROVIDE HAWG WIRED WITH A COPY OF THE RECEIPT STATING THE CUSTOMER'S NAME, DEALER NAME, PRODUCT PURCHASED AND DATE OF PURCHASE.

- **DEFECTIVE PRODUCTS**

PRODUCTS FOUND TO BE DEFECTIVE DURING THE WARRANTY PERIOD WILL BE REPAIRED OR REPLACED (WITH A PRODUCT DEEMED TO BE EQUIVALENT) AT HAWG WIRED'S DISCRETION.

- **WHAT IS NOT COVERED**

DAMAGE CAUSED BY ACCIDENT, ABUSE, IMPROPER OPERATIONS, WATER, THEFT
ANY COST OR EXPENSE RELATED TO THE REMOVAL OR REINSTALLATION OF PRODUCT
SERVICE PERFORMED BY ANYONE OTHER THAN AN AUTHORIZED HAWG WIRED SERVICE CENTER
ANY PRODUCT WITH THE SERIAL NUMBER OR TAMPER LABELS DEFACED, ALTERED, OR REMOVED
SUBSEQUENT DAMAGE TO OTHER COMPONENTS
ANY PRODUCT PURCHASED OUTSIDE THE U.S.
ANY PRODUCT NOT PURCHASED FROM AN AUTHORIZED HAWG WIRED DEALER

- **LIMIT ON IMPLIED WARRANTIES**

ANY IMPLIED WARRANTIES INCLUDING WARRANTIES OF FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF AN IMPLIED WARRANTY, SO THIS LIMITATION MAY NOT APPLY. NO PERSON IS AUTHORIZED TO ASSUME FOR HAWG WIRED ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

- **HOW TO OBTAIN SERVICE**

PLEASE CALL 1-510-894-2999 FOR HAWG WIRED CUSTOMER SERVICE. YOU MUST OBTAIN A RETURN MATERIAL AUTHORIZATION NUMBER (RMA) TO RETURN ANY PRODUCT TO HAWG WIRED. YOU ARE RESPONSIBLE FOR SHIPPING CHARGES OF RETURNED PRODUCTS TO HAWG WIRED.

- **MADE IN THE USA**

OUR PRODUCTS ARE PROUDLY DESIGNED, DEVELOPED AND BUILT IN THE USA*. THE MAJORITY OF THE COMPONENTS USED IN THE CONSTRUCTION OF OUR PRODUCTS ARE PRODUCED BY AMERICAN COMPANIES. HOWEVER, DUE TO THE GLOBAL NATURE OF MODERN MANUFACTURING AND THE ELECTRONICS INDUSTRY IN GENERAL, SOME PARTS MAY BE MANUFACTURED IN OTHER COUNTRIES.

HAWG WIRED, INC.

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