

DS18 PRO-HP52

DS18 PRO-HP52 2-inch Exit Horn Waveguide Instruction Manual

Model: PRO-HP52

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DS18 PRO-HP52 2-inch Exit Horn Waveguide. Please read this manual thoroughly before installation and retain it for future reference.

2. PRODUCT OVERVIEW

The DS18 PRO-HP52 is a durable plastic horn waveguide designed for use with compatible 2-inch bolt-on compression drivers. It features a shorter style for versatile mounting and is constructed from ABS plastic for resistance to corrosion and physical damage. The horn is available in various chrome finishes.



Figure 1: DS18 PRO-HP52 2-inch Exit Horn Waveguide (Red/White Chrome color shown).

3. KEY FEATURES

- **Compact Design:** Features a mounting depth of 2.61 inches and a 2-inch throat diameter, allowing for installation in various spaces.
- **Durable Construction:** Made from ABS Plastic for enhanced resistance to corrosion and physical damage.
- **Bolt-on Compatibility:** Designed to fit most 4-bolt pattern compression drivers.
- **UV Resistant Finish:** Chrome finish provides UV resistance and aesthetic appeal.
- **Optimized Sound Dispersion:** Engineered for directional sound projection.

2" THROAT ABS SHORT HORN



ABS Plastic Frame



4 bolt pattern for comparability
for most bolt on drivers

ABS Plastic for higher resistance to
corrosion and physical damage

Figure 2: Illustration of PRO-HP52 features, highlighting ABS plastic construction and 4-bolt pattern compatibility.

4. SPECIFICATIONS

Brand	DS18
Model	PRO-HP52
Material	ABS Plastic
Throat Diameter	2 inches (50.8mm)
Overall Diameter	6.5 inches (165mm)
Mounting Depth	2.61 inches (66.3mm)
Sound Coverage Angle	57 degrees (Rounded)
Weight	Approximately 11.3 ounces
Color (as reviewed)	Red/White Chrome (other colors available)

NEVER SACRIFICE YOUR SYSTEMS SPACE FOR
DIRECTIONAL SOUND AGAIN WITH THE **PRO-HP52**



Overall Diameter:
6.5" / 165mm



Throat Diameter:
2" / 50.8mm



Mounting Depth:
2.61" / 66.3mm

*Fits most
4-bolt pattern
compression
drivers*

*Compression driver
not included*



**Shorter style horn to save mounting depth
space but still get tons of directional volume**

Figure 3: Detailed dimensions of the PRO-HP52 horn waveguide.

5. INSTALLATION

The PRO-HP52 horn waveguide is designed for easy bolt-on installation with compatible 2-inch compression drivers. Ensure you have a suitable compression driver with a 4-bolt mounting pattern.

5.1 Required Tools (Not Included)

- Appropriate wrench or socket set for mounting bolts.
- Screwdriver (if applicable for driver terminals).

5.2 Installation Steps

1. Carefully unpack the horn waveguide and inspect for any damage.
2. Align the mounting holes of the PRO-HP52 horn with the bolt pattern on your compatible 2-inch compression driver.
3. Insert the provided bolts (or bolts supplied with your compression driver) through the horn's mounting holes and into the compression driver.
4. Securely fasten the bolts, ensuring a snug fit without overtightening to prevent damage to the plastic.
5. Once the horn is attached to the driver, proceed with mounting the assembled unit into your desired enclosure or panel.



Figure 4: PRO-HP52 horn waveguides shown attached to various DS18 compression drivers, demonstrating bolt-on compatibility.

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Video 1: This video provides an overview of the DS18 PRO-HP52, showcasing its features and compatibility with various compression drivers. It demonstrates the bolt-on installation process.

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Video 2: This video, while primarily featuring the PRO-HP102, also illustrates the general concept of attaching DS18 horn waveguides to compression drivers, which is applicable to the PRO-HP52.

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Video 3: This video, featuring the PRO-HT1, demonstrates the screw-on installation of a driver into a horn, which can provide a visual reference for general horn and driver assembly, though the PRO-HP52 uses a bolt-on method.

6. OPERATING INSTRUCTIONS

The PRO-HP52 horn waveguide functions as an acoustic amplifier and disperser for a connected compression driver. Its operation is dependent on the specifications and proper connection of the compression driver it is paired with.

- Ensure the compression driver is correctly wired to your audio system's amplifier according to the driver's specific instructions.
- Verify all connections are secure to prevent signal loss or damage.

- Start with low volume levels and gradually increase to your desired listening level to avoid overdriving the compression driver.

7. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, damp cloth to wipe the surface of the horn waveguide. Avoid abrasive cleaners or solvents that could damage the chrome finish.
- **Inspection:** Periodically check the mounting bolts for tightness. Vibrations can sometimes loosen fasteners over time.
- **Storage:** If storing the unit for an extended period, keep it in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

This section addresses common issues that may arise during the use of the PRO-HP52 horn waveguide. Note that most audio performance issues are related to the connected compression driver or the audio system itself.

- **No Sound:**
 - Check the wiring connections between the compression driver and the amplifier.
 - Verify the compression driver is functioning correctly (refer to its specific manual).
 - Ensure the amplifier is powered on and receiving a signal.
- **Distorted Sound:**
 - Reduce the volume level to check if the compression driver is being overdriven.
 - Inspect the compression driver for any physical damage or diaphragm issues.
 - Ensure the horn is securely attached to the driver.
- **Loose Horn:**
 - Tighten the mounting bolts connecting the horn to the compression driver. Do not overtighten.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your DS18 compression driver or visit the official DS18 website. Keep your purchase receipt as proof of purchase for warranty claims.

DS18 Contact Information:

- Website: www.ds18.com
- Customer Service: Refer to the website for current contact methods.

 <p>OWNER'S MANUAL MANUAL DEL USUARIO</p> <p>PRO-HP52</p> <p>ABS SHORT HORN FOR COMPRESSION DRIVER 2" THROAT EQUIPO ABS PARA CONDUCTORES DE COMBUSTIBLE BOCA DE 2"</p> <p>DS18</p> <p>ENGLISH ESPAÑOL</p>	<p>DS18 PRO-HP52 ABS Short Horn Owner's Manual: Specifications, Measurements, and Details</p> <p>Detailed owner's manual for the DS18 PRO-HP52 ABS Short Horn, featuring technical specifications, precise measurements, available color options, warranty information, and important safety warnings. This horn is designed for 2-inch throat compression drivers.</p>
 <p>OWNER'S MANUAL MANUAL DEL USUARIO</p> <p>PRO-HP202</p> <p>ABS LONG HORN FOR COMPRESSION DRIVER 2" THROAT EQUIPO ABS PARA CONDUCTORES DE COMBUSTIBLE BOCA DE 2"</p> <p>DS18</p> <p>ENGLISH ESPAÑOL</p>	<p>DS18 PRO-HP202 ABS Long Horn Owner's Manual</p> <p>Owner's manual for the DS18 PRO-HP202 ABS Long Horn, a compression driver horn with a 2-inch throat. Includes specifications, measurements, and warranty information.</p>
 <p>OWNER'S MANUAL MANUAL DEL USUARIO</p> <p>PRO-DKH1X</p> <p>2" THROAT ALUMINUM HORN WITH TITANIUM VOICE COIL EQUIPO ABS PARA CONDUCTORES DE COMBUSTIBLE BOCA DE 2"</p> <p>DS18</p> <p>ENGLISH ESPAÑOL</p>	<p>DS18 PRO-DKH1X 2" Throat Aluminum Horn Driver - Owner's Manual & Specifications</p> <p>Detailed owner's manual and specifications for the DS18 PRO-DKH1X 2-inch throat aluminum horn driver with titanium voice coil. Includes dimensions, power handling, frequency response, and more.</p>
 <p>OWNER'S MANUAL MANUAL DEL USUARIO</p> <p>PRO-DKH2</p> <p>2" THROAT ALUMINUM HORN WITH TITANIUM VOICE COIL EQUIPO ABS PARA CONDUCTORES DE COMBUSTIBLE BOCA DE 2"</p> <p>DS18</p> <p>ENGLISH ESPAÑOL</p>	<p>DS18 PRO-DKH2 Compression Driver: 2" Throat, 3" Titanium Voice Coil - Owner's Manual</p> <p>Official owner's manual for the DS18 PRO-DKH2 compression driver. Features detailed specifications, dimensions, frequency response graph, and technical data for this 2-inch throat, 8-ohm aluminum horn speaker component with a 3-inch titanium voice coil.</p>
 <p>OWNER'S MANUAL MANUAL DEL USUARIO</p> <p>PRO-HP102</p> <p>ABS HORN FOR COMPRESSION DRIVER 2" THROAT EQUIPO ABS PARA CONDUCTORES DE COMBUSTIBLE BOCA DE 2"</p> <p>DS18</p> <p>ENGLISH ESPAÑOL</p>	<p>DS18 PRO-HP102 ABS Horn Owner's Manual</p> <p>Owner's manual for the DS18 PRO-HP102 ABS Horn for Compression Driver with a 2" throat. Includes specifications, measurements, and warranty information.</p>
 <p>OWNER'S MANUAL MANUAL DEL USUARIO</p> <p>PRO-HY6MSL</p> <p>6.5" HYBRID SLIM LOUDSPEAKER EQUIPO ABS PARA CONDUCTORES DE COMBUSTIBLE BOCA DE 6.5"</p> <p>DS18</p> <p>ENGLISH ESPAÑOL</p>	<p>DS18 PRO-HY6MSL 6.5" Hybrid Slim Loudspeaker Owner's Manual and Specifications</p> <p>Comprehensive owner's manual and technical specifications for the DS18 PRO-HY6MSL 6.5-inch hybrid slim loudspeaker. Includes detailed information on general, woofer, and driver specifications, T/S parameters, measurements, and warranty. Designed for powersports and automotive applications.</p>

