

INSTALLATION AND CONNECTION MANUAL

Safety Precautions

- For your own safety, please read this manual thoroughly before installation and connection. Please beware of the following precautions:

Symbol Identification

This manual uses symbols and icons to indicate safety precautions and concerns during the installation procedure. Be sure to carefully read and understand each precaution prior to beginning the installation.

WARNING

This symbol is intended to alert the user to the presence of important operating instructions. Failure to heed the instructions may result in severe injury or death.

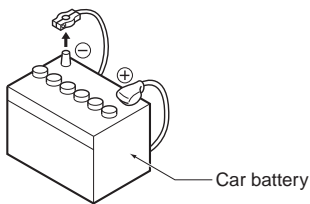
CAUTION

This symbol is intended to alert the user to the presence of important operating instructions. Failure to heed the instructions can result in injury or material damage.

Before Use

WARNING

- Confirm the battery voltage of the vehicle to be installed. This unit is designed only for vehicles with DC 12V power supply.
- Disconnect the negative terminal of the battery before connecting wires, otherwise an electric shock, injury by short circuit may occur.



Installation Precautions

WARNING

- When installing the unit to a vehicle with an airbag system, never install it in a place where it may affect the operation of the airbag.
- Do not install this unit in the following locations:
 - A location interfering with the driver's visual range or operation.
 - A location where the gear shift or brake pedal are hindered.
 - A location where passengers are at risk.
 - An unstable location, or where the system may fall.

CAUTION

- Do not install the system in the locations described below. This may cause a fire, accident or electrical shock:
 - A location exposed to rain or dust.
 - An unstable location, or where the system may fall.
- Do not install this unit in a place exposed to direct sunlight, heat or a place where the vent holes or heat radiation holes are covered.
- Ensure a minimum distance around the apparatus for sufficient ventilation.
- Do not place naked flame sources, such as lighted candles on the apparatus.
- Use the apparatus only in moderate climates (not in tropical climates).

Installation Notes

WARNING

Please note the position of pipes, tanks and electrical wirings before installing the unit into the vehicle; failure in avoiding these may cause a fire or malfunction.

CAUTION

- Use only the supplied parts. If unspecified parts are used, they may cause damage.
- Any holes made in the body of the vehicle should be sealed with a silicon adhesive. If exhaust fumes or water penetrates into the vehicle, this may cause an accident.
- Fasten the bolts securely when installing the unit. If the bolts are loose an accident or malfunction could occur.

Connection Notes

WARNING

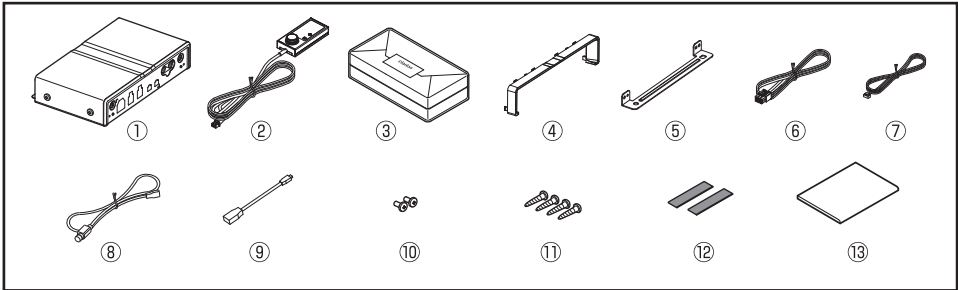
- Loom all cables according to the instruction manual, so as not to hinder operation.
- Wire the connecting cords/cables away from high temperature areas. If the coatings of the cables melt, it could cause an accident/fire by a short circuit. Take care when wiring in the engine compartment.
- When wiring the connecting cables in a vehicle with an airbag system, never feed the cables through a place where it may affect the operation of the airbag.
An airbag not operating correctly in an emergency may cause increased injury.

CAUTION

- Verify wires with a digital multi-meter prior to making any connections. Many new vehicles use multiplexed and/or low voltage circuits that can be damaged if a test light or logic probe is used.
- Connect cables appropriately. If a wrong connection is made, this may cause a fire or accident.
- When passing cables through the body of the vehicle, use non-conductive grommets. If the coatings of the cables are worn out by rubbing, this may cause an accident, fire or a short circuit.
- After wiring cables, fix them with insulation tape.
- Be sure to switch off the vehicle when connecting or disconnecting cords to/from the unit, otherwise an electric shock, injury or accident may occur.

Accessories and Part names

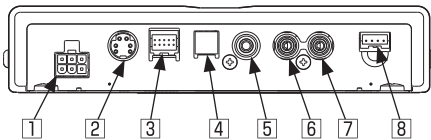
Accessories



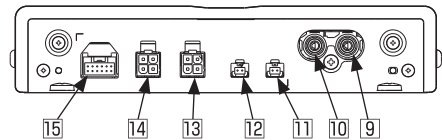
- | | |
|---|---|
| ① Main unit 1 | ⑧ USB cable A (1.64 ft/0.5 m) 1 |
| ② Commander (8.09 ft/2.46 m) 1 | ⑨ USB cable B (0.49 ft/0.15 m) 1 |
| ③ Tweeter kit 1 | ⑩ Machine screw (M2.6 x 6 mm) 2 |
| ④ Cover 1 | ⑪ Tapping screw (φ5 x 16 mm) 4 |
| ⑤ Mounting bracket 1 | ⑫ Velcro tape (Male/Female) 1 |
| ⑥ Power supply cable (8.22 ft/2.5 m)* 1 | ⑬ Owner's manual, Installation manual & Warranty card 1 |
| ⑦ Speaker input cable (6.58 ft/2 m) 1 | |

* Ground cord length is 6.58 ft/2 m.

Part names



- ① POWER input terminal
Connect the power supply cable.
- ② USB input terminal
Connect the USB cable A.
- ③ COMMANDER input terminal
Connect the commander cable.
- ④ DIGITAL IN OPTICAL terminal
Connect the digital (Optical) input cable (sold separately).
- ⑤ DIGITAL IN COAXIAL terminal
Connect the digital (Coaxial) input cable (sold separately).
- ⑥ ⑦ PRE IN CH1 CH2 terminal
⑥ is the analogue channel 1 input, and ⑦ is the analogue channel 2 input. Connect the analogue RCA input cable (sold separately).
- ⑧ SPEAKERS IN terminal
Connect the speaker input cable.



- ⑨ ⑩ PRE OUT CH1 CH2 terminal
⑨ is the analogue channel 2 output, and ⑩ is the analogue channel 1 output. Connect the analogue RCA output cable (sold separately).
- ⑪ DIGITAL OUT SW2 (MONO) terminal
Connect the Full Digital Subwoofer (sold separately).
- ⑫ DIGITAL OUT SW1 (MONO) terminal
Connect the Full Digital Subwoofer (sold separately).
- ⑬ DIGITAL OUT SP (Rear) terminal
Connect the Full Digital Speaker (sold separately).
- ⑭ DIGITAL OUT SP (Front) terminal
Connect the Full Digital Speaker (sold separately).
- ⑮ DIGITAL OUT TW output terminal
Connect the supplied Tweeter.

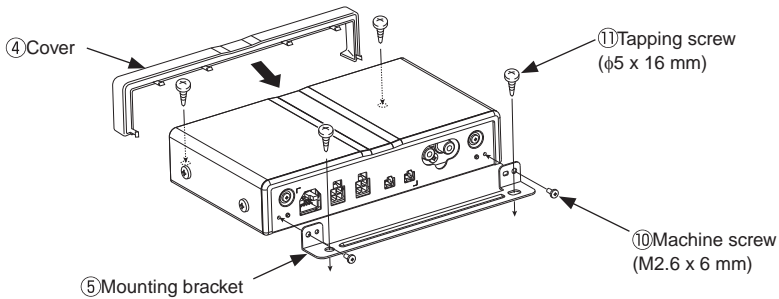
Installation

⚠ CAUTION

- Be sure to install the main unit, the commander and cables so as not to obstruct driving.
- Do not install the main unit and the commander where the temperature becomes high such as the dashboard. This may cause malfunctions or deformation.

Installing the main unit and the commander

1. Install ⑤ the mounting bracket to the main unit using with ⑩ the machine screws.
2. Secure the main unit to the vehicle using with ⑪ the tapping screw.
3. Install ④ the cover to the main unit.
4. Install ② the commander.



Installing the tweeter

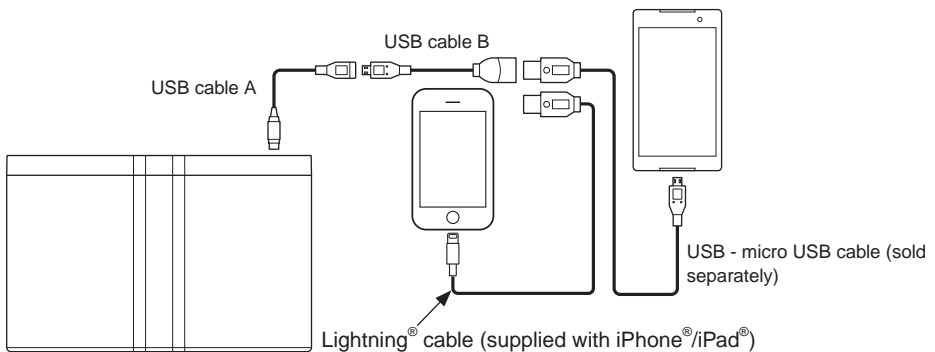
- For the installation, refer to the installation manual supplied with the tweeter kit.

Wiring and Connections

Tuning connections

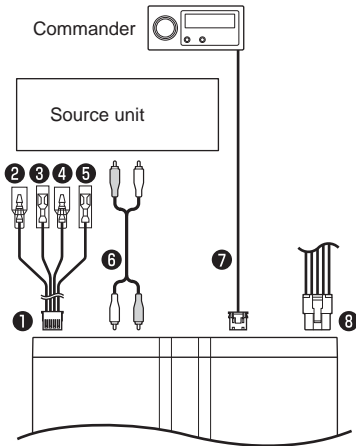
NOTE

Always use the supplied USB cable A and B for tuning.



For more details on compatible smartphones and tablets, visit our website at <http://www.clarion.com>

Analogue input connections



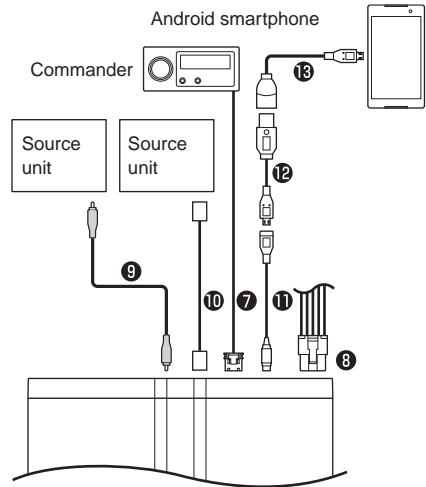
- ❶ Speaker input connector^{*1}
- ❷ Speaker input L/+ cord (White)
- ❸ Speaker input L/- cord (White/Black)
- ❹ Speaker input R/+ cord (Grey)
- ❺ Speaker input R/- cord (Grey/Black)
- ❻ RCA cable (analogue input) (sold separately)^{*1 *2}
- ❼ Commander

* 1 The analogue input cable (speaker input) and RCA input cable cannot be used at the same time.

* 2 Check where to connect the RCA cable before connecting.

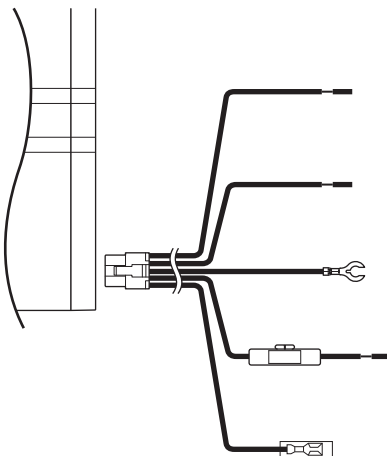
* 3 The digital cable will come loose/disconnect easily. Reconnect the digital cable to the main unit as there is no sound once the cable is disconnected.

Digital input connections



- ❸ Power supply cable
For more details on cable wiring, refer to power cable wiring.
- ❹ Digital (Coaxial) cable (sold separately)^{*3}
- ❺ Digital (Optical) cable (sold separately)^{*3}
- ❻ USB cable A
- ❼ USB - micro USB cable (sold separately)
- ❽ OTG (USB On-The-Go) cable (sold separately)

Power cable wiring



Illumination cord (Orange/White)

Connect to the vehicle illumination signal to activate the display dimmer function.

Accessory (ACC) cord (Red)

Connect to the terminal controlled by the ignition switch.

Ground (Black)

Connect to a metal part of the vehicle frame with the screw.

+12V main power (Yellow)

Connect directly to the vehicle battery using a capacity cord with enough current. (Recommended)

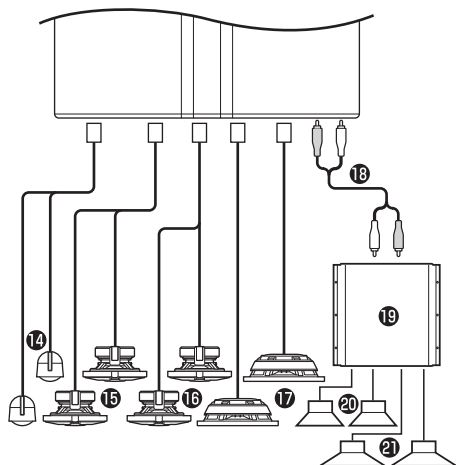
Remote ON cord (Blue/White)

Connect to the remote turn-on of the external amplifier.

⚠ CAUTION

Disconnect the negative terminal of the battery before installation to prevent malfunction.

Output connections



- 14 Tweeter
- 15 Z7 Full Digital Speaker (Front) (sold separately)
- 16 Z7 Full Digital Speaker (Rear) (sold separately)
- 17 Z25W Full Digital Subwoofer (sold separately)
- 18 RCA cable (analogue) (sold separately)*⁴
- 19 Analogue power amplifier (sold separately)*⁵
- 20 Analogue speaker (sold separately)
- 21 Analogue subwoofer (sold separately)

* 4 Check where to connect the RCA cable before connecting.

* 5 • Connect the external analogue power amplifier's ground cable to the vehicle's metal frame when the main unit is connected to the external analogue power amplifier for system upgrading. If the connections are not seated properly, it may damage the main unit's internal circuit depending on the connected external amplifier or cause noise.

• When the analogue power amplifier is connected to the main unit, noise may occur or sound may be warped.

In this case, turn down the gain adjustment on the analogue power amplifier.

Clarion® Full Digital Sound

- Tweeter Instruction Manual
- Mode d'emploi du tweeter
- Bedienungsanleitung für Hochtöner
- Manuale di istruzioni del tweeter
- Manual del usuario del tweeter
- Руководство пользователя для твитера
- ツイーター 取付説明書

Clarion Co., Ltd.

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English

Français

Deutsch

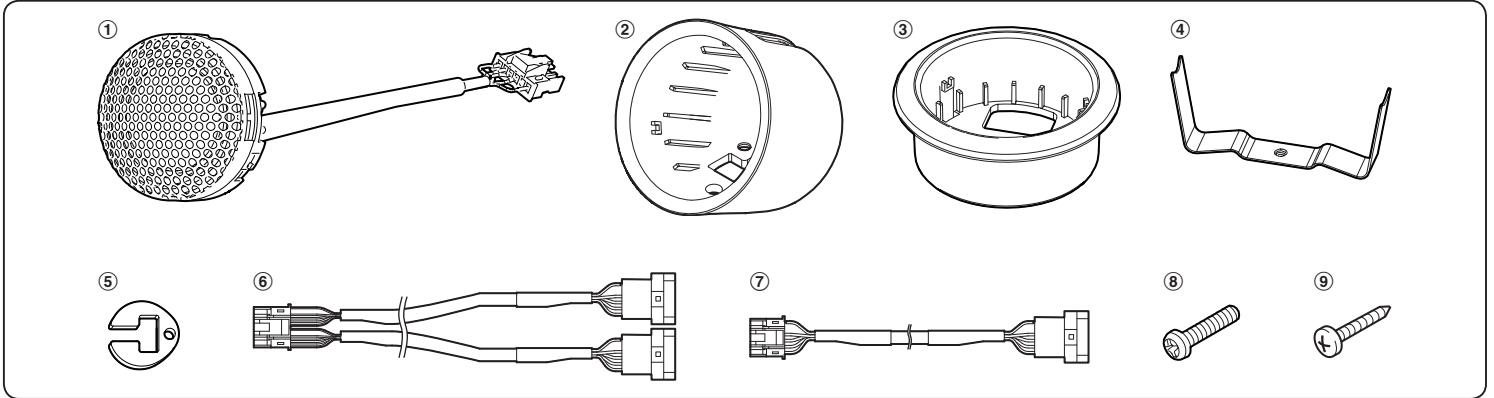
Italiano

Español

Русский

日本語

PACKAGE CONTENTS / CONTENU DE L'EMBALLAGE / LIEFERUMFANG / CONTENUTO DELLA CONFEZIONE / CONTENIDO DEL PAQUETE / СОДЕРЖИМОЕ КОМПЛЕКТА / 同梱品

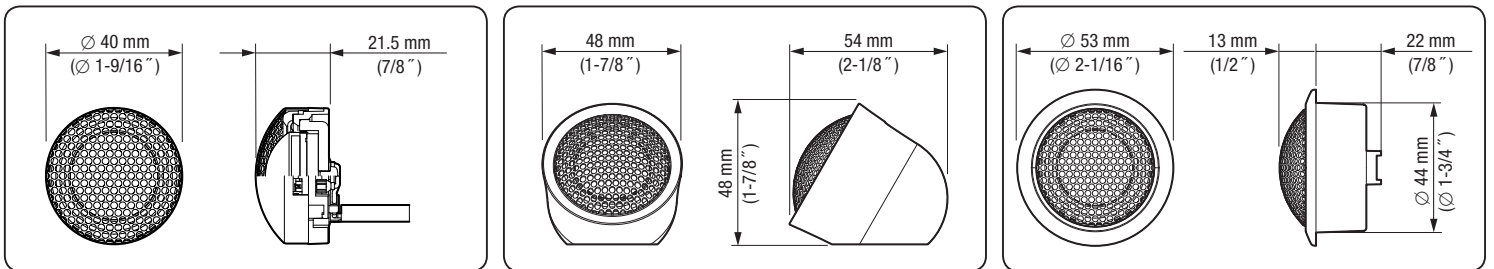


① Tweeter2	① Tweeter2	① Hochtöner2	① Tweeter2
② Mount adapter.....2	② Adaptateur de montage.....2	② Montageadapter2	② Adattatore di montaggio2
③ Flush-mount spacer2	③ Monture encastrable avec support2	③ Einbau-Abstandhalter2	③ Distanziatore per montaggio a incasso...2
④ Lever arm2	④ Bras de levier.....2	④ Hebelarm2	④ Braccio regolabile2
⑤ Cushion tape.....2	⑤ Coussinet.....2	⑤ Polsterband.....2	⑤ Nastro in schiuma2
⑥ Z3 output cord (1 ft./0.3 m).....1	⑥ Cordon de sortie Z3 (0,3 m)1	⑥ Z3-Ausgangskabel (0,3 m)1	⑥ Cavo di uscita Z3 (0,3 m)1
⑦ Extension cord (9.8 ft./3 m)2	⑦ Rallonge (3 m)2	⑦ Verlängerungskabel (3 m)2	⑦ Cavo di prolunga (3 m)2
⑧ Screw (M3 × 14 mm)2	⑧ Vis (M3 × 14 mm)2	⑧ Schraube (M3 × 14 mm)2	⑧ Vite (M3 × 14 mm)2
⑨ Tapping screw (∅ 4 × 14 mm)2	⑨ Vis de taraudage (∅ 4 × 14 mm).....2	⑨ Schneidschraube (∅ 4 × 14 mm)2	⑨ Vite autofilettante (∅ 4 × 14 mm)2

① Tweeter2	① Твитер2	① ツイーター2
② Adaptador de montaje.....2	② Монтажный адаптер.....2	② マウントアダプター2
③ Separador para montaje a ras2	③ Утапливаемая проставка2	③ フラッシュマウント Spacer2
④ Brazo de palanca.....2	④ Крепежная скоба.....2	④ レバーアーム2
⑤ Cinta de montaje de espuma2	⑤ Упругая лента2	⑤ クッションテープ2
⑥ Cable de salida del Z3 (0,3 m)1	⑥ Шнур выходящего сигнала Z3 (0,3 m)1	⑥ Z3 出力コード (0.3 m)1
⑦ Alargador eléctrico (3 m)2	⑦ Удлинительный шнур (3 m)2	⑦ 延長コード (3 m)2
⑧ Tornillo (M3 × 14 mm)2	⑧ Винт (M3 × 14 mm)2	⑧ マンスクリュー (M3 × 14 mm)2
⑨ Tornillo autorroscante (∅ 4 × 14 mm)2	⑨ Самонарезающий винт (∅ 4 × 14 mm) ..2	⑨ タッピングスクリュー (∅ 4 × 14 mm)2

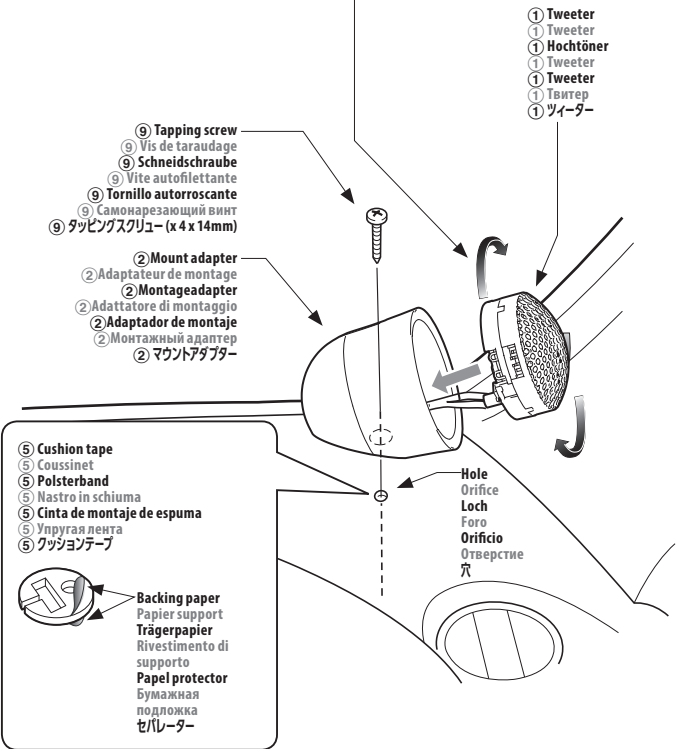
SPECIFICATIONS / CARACTÉRISTIQUES / SPEZIFIKATIONEN / CARATTERISTICHE TECNICHE / ESPECIFICACIONES / ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ / 仕様・定格

- | | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> ● Tweeter : 1" (2.5cm) Pure Soft Dome ● Normal impedance : 6Ω × 2ch ● Frequency response : 1.5k~40kHz ● Weight (one speaker) : 77g /0.17lbs | <ul style="list-style-type: none"> ● Tweeter : Pure Soft Dome 1" (2,5 cm) ● Impédance normale : 6Ω × 2ch ● Réponse en fréquence : 1,5 k ~ 40 kHz ● Poids (un haut-parleur) : 77 g | <ul style="list-style-type: none"> ● Hochtöner : 1 Zoll (2,5 cm) Pure Soft Dome ● Nennimpedanz : 6 Ω × 2 Kanäle ● Frequenzgang : 1,5 - 40 kHz ● Gewicht (ein Lautsprecher) : 77 g | <ul style="list-style-type: none"> ● Tweeter : 1" (2,5 cm) a cupola ultramorbid ● Impedenza normale : 6 Ω × 2 ch ● Risposta in frequenza : 1,5 k ~ 40 kHz ● Peso (di un diffusore) : 77 g |
| <ul style="list-style-type: none"> ● Tweeter : 1" (2,5 cm) Cúpula suave pura ● Impedancia normal : 6 Ω × 2 canales ● Respuesta en frecuencia : 1,5 k~40 kHz ● Peso (un altavoz) : 77 g | <ul style="list-style-type: none"> ● Твитер : 1" (2,5см) с мягким куполом ● Нормальный импеданс : 6 Ом × 2 кан. ● Частотная характеристика : 1,5–40 кГц ● Вес (один динамик) : 77г /0,17фунта | <ul style="list-style-type: none"> ● ツイーター : 2.5cmピュアソフトドーム ● 公称インピーダンス : 6Ω × 2ch ● 周波数特性 : 1.5k~40kHz ● 質量 (1本あたり) : 77g | |



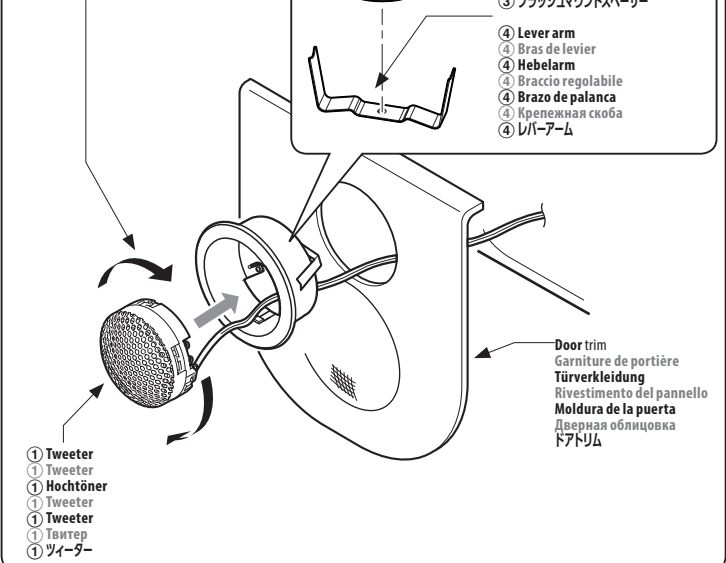
- Surface Mount
- Montage en saillie
- Aufbau
- Montaggio a superficie
- Montaje superficial
- Поверхностный монтаж
- ダッシュボードへの取付

Press the tweeter downward in the direction of the arrow and then rotate it to attach it.
 Poussez le tweeter vers le bas dans le sens de la flèche, puis tournez-le pour le fixer.
 Drücken Sie den Hochtöner in Richtung des Pfeils nach unten und drehen Sie ihn dann zur Befestigung.
 Premere il tweeter verso il basso in direzione della freccia e quindi ruotarlo per collegarlo.
 Presione el tweeter hacia abajo en la dirección de la flecha y, a continuación, gírelo para montarlo.
 Нажмите твиттер вниз в направлении стрелки, а затем поверните, чтобы прикрепить его.
 ツイーターを矢印の方向に押ししながら回転させて装着します。



- Flush Mount
- Montage encastré
- Einbau
- Montaggio a incasso
- Montaje a ras
- Утапливаемый монтаж
- ドアへの取付

Press the tweeter downward in the direction of the arrow and then rotate it to attach it.
 Poussez le tweeter vers le bas dans le sens de la flèche, puis tournez-le pour le fixer.
 Drücken Sie den Hochtöner in Richtung des Pfeils nach unten und drehen Sie ihn dann zur Befestigung.
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 Нажмите твиттер вниз в направлении стрелки, а затем поверните, чтобы прикрепить его.
 ツイーターを矢印の方向に押ししながら回転させて装着します。



CONNECTION EXAMPLE / ESEMPIO DI RACCORDAMENTO / ANSCHLUSSBEISPIEL / ESEMPIO DI COLLEGAMENTO / EJEMPLO DE CONEXIÓN / ПРИМЕР ПОДКЛЮЧЕНИЯ / 結線例

