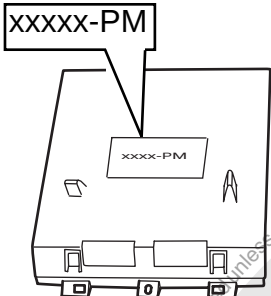
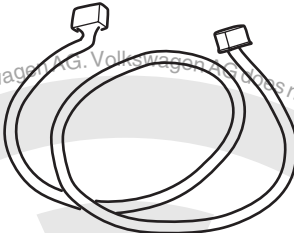
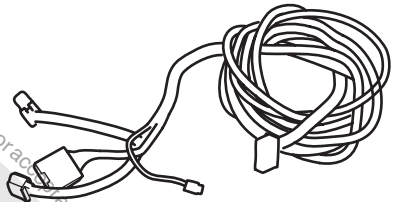
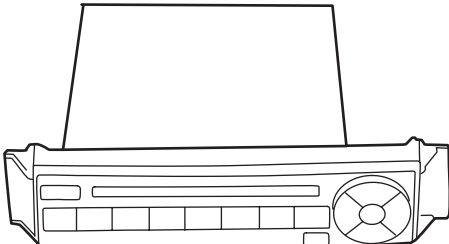
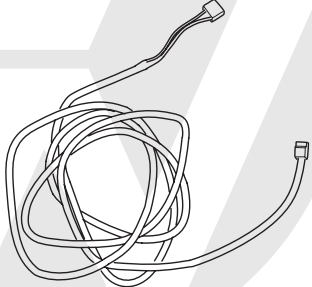
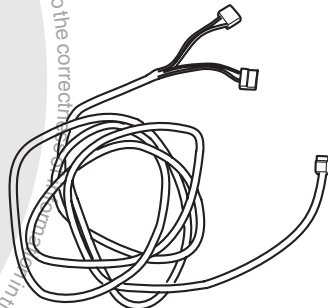
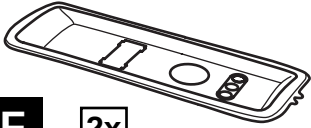
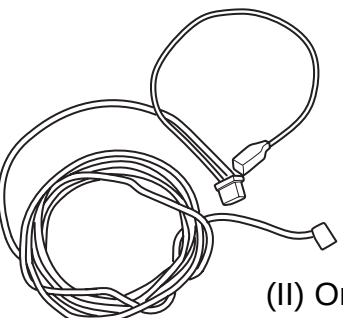
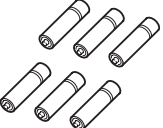
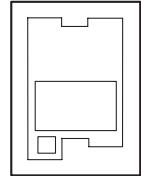




VOLKSWAGEN ROUTAN

REAR ENTERTAINMENT SYSTEM

Single (I) / Dual (II) Screen

 (I) 1x PM Screen (II) 1x PM Screen 1x FM Screen	 (II) Only	
 (II) Only	 (I) Only	 (II) Only
 2x	 (I) 1x (II) 2x	 2x
 12x	 (II) Only	
 110 Volt Only	 4x	 

NOTE: For vehicles Pre-equipped with Park View Camera System only:

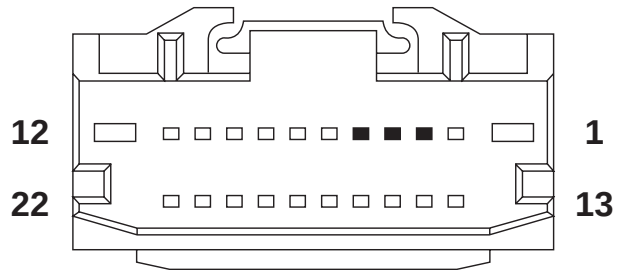
If there is a White 22-way connector already present in the radio, it means that the vehicle is equipped with Rear Park-View Camera. Refer to the following

NOTE: Connector wires in vehicle with factory installed Park-View Camera will be Located in Pin positions 3, 4, And 5

- a) Unplug Original White 22-way connector from the radio.
- b) Using a hooked pick tool lift up the connector locking wedge slightly (do not remove it entirely).

NOTE: Before removing wires from connector, label them with the connector cavity numbers (i.e. PIN 3,4,5).

- c) Remove the three wires from connector and either tape back Connector with remaining wires or Discard Empty.
- d) Lift up the locking wedge on the White 22-way Connector Located on the DVD power harness
- e) Insert the three wires into White 22-way DVD power harness making sure to insert them into the correct/ matching cavities of the power harness connector. Reference service manual if needed.
- f) Engage locking wedge and plug connector into the radio.



RADIO C3 (WHITE) 22WAY Connector
Connecteur C3 (WHITE) 22WAY AUTORADIO
Conector de RADIO C3 (BLANCO) con 22 VÍAS

REMARQUE: Pour les véhicules Pré-équipés d'un système de Caméra de recul seulement

Si un connecteur Blanc 22 (White 22-way) est déjà présent dans l'autoradio, cela signifie que le véhicule est équipé d'une Caméra de Recul Arrière. Se conformer à ce qui suit

REMARQUE: Les fils connecteurs des véhicules avec des Caméras de Recul installées en usine seront situés au niveau des broches de connexion 3, 4, Et 5

- a) Débrancher le connecteur Blanc 22 d'origine de l'autoradio.
 - b) En utilisant un outil crochu soulever un peu le verrouillage du connecteur (ne pas le retirer entièrement).
- REMARQUE:** Avant d'enlever les fils du connecteur, étiqueter-les avec les chiffres d'emplacement du connecteur (c.à.d. broches 3,4,5).
- c) Retirer les trois fils du connecteur et scotcher les fils restants avec le connecteur ou bien s'en débarrasser.
 - d) Soulever le verrouillage sur le connecteur Blanc 22 situé sur le câble d'alimentation du DVD
 - e) Insérer les trois fils dans le connecteur Blanc 22 du câble d'alimentation du DVD en vous assurant de les insérer dans les bons emplacements du connecteur du câble d'alimentation. Manuel de Référence si besoin.
 - f) Mettre en marche le verrouillage et brancher le connecteur à l'autoradio.

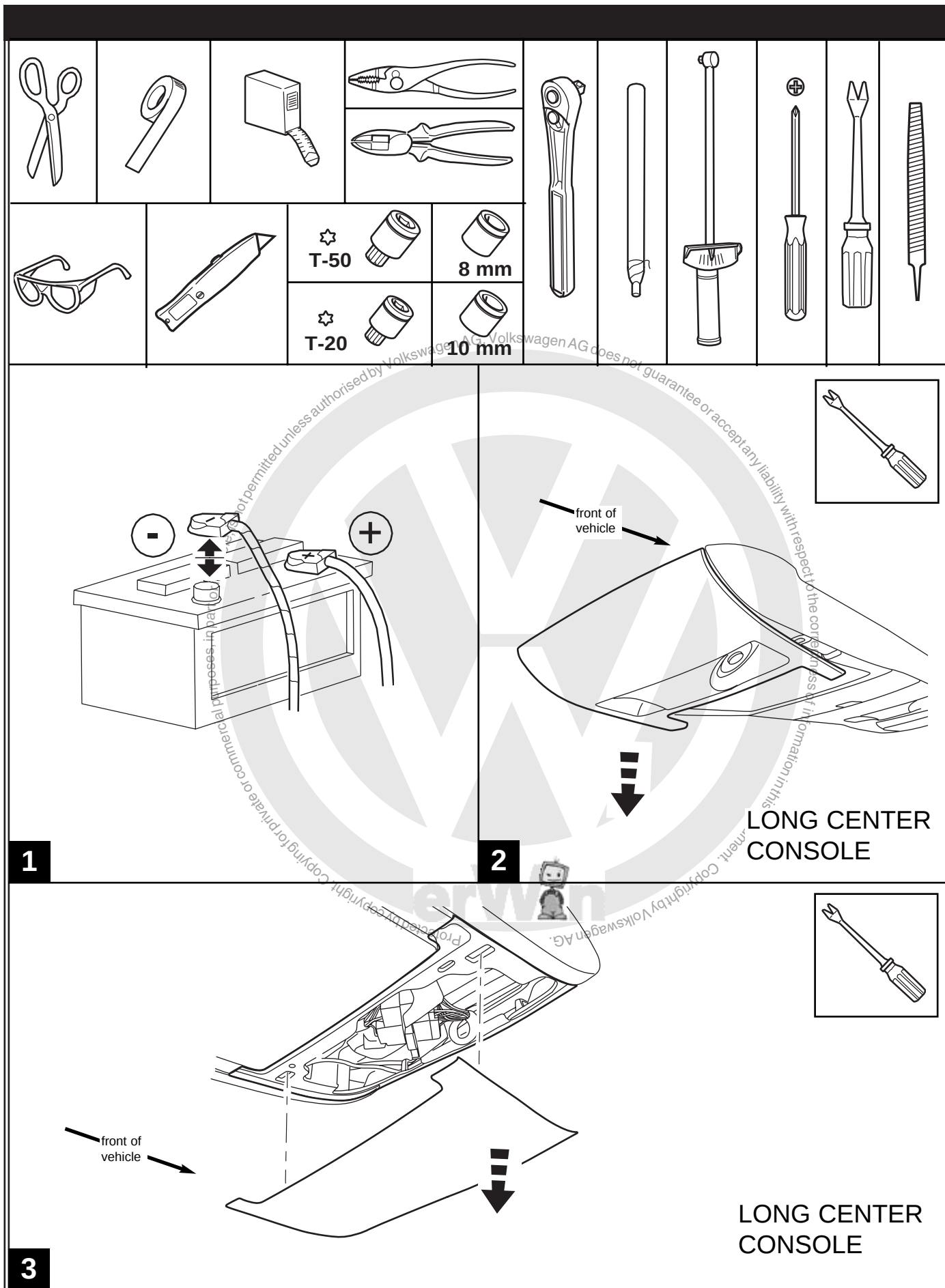
NOTA: Exclusivamente para vehículos pre-equipados con sistema de cámara con vista de aparcamiento:

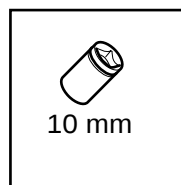
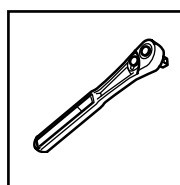
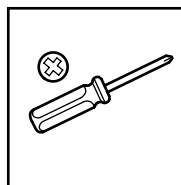
Si ya existe un conector blanco de 22 vías en la radio, esto significa que el vehículo está equipado con cámara trasera con vista de aparcamiento. Véase lo siguiente

NOTA: Los cables del conector en un vehículo con cámara instalada de vista de aparcamiento deberán ubicarse en las posiciones 3, 4 y 5 de las clavijas.

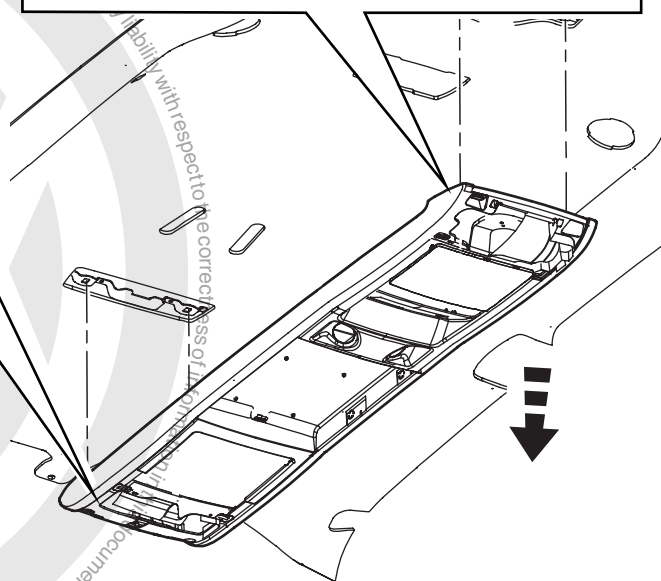
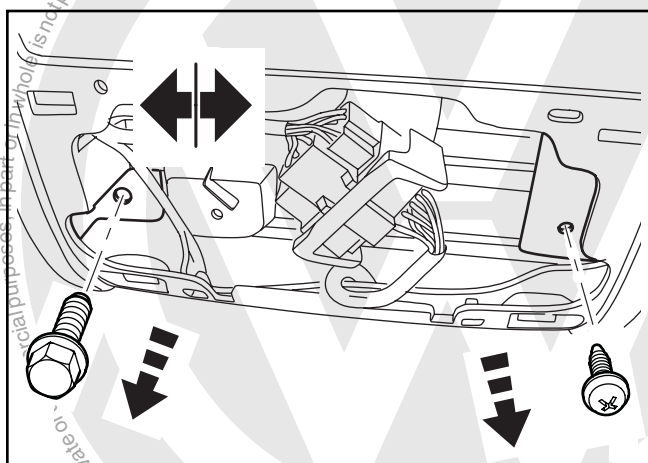
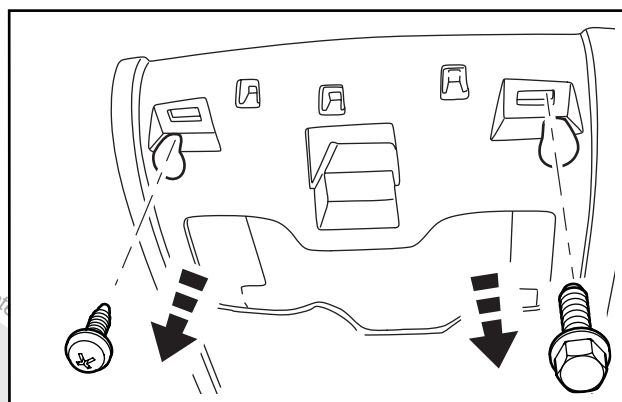
- a) Desconecte el conector blanco original de 22 vías de la radio.
 - b) Utilizando una herramienta de punta, levante el borde del bloqueo del conector suavemente (no lo saque al completo).
- NOTA:** Antes de sacar los cables del conector, etiquételos con los nombres de la cavidad del conector (CLAVIJA 3, 4 y 5).
- c) Si las clavijas del conector contienen cables, desconecte los cables de las clavijas y conéctelas con los cables restantes. O déjelo vacío.
 - d) Levante el borde del bloqueo del conector blanco de 22 vías ubicado en el compartimento de alimentación del DVD.
 - e) Introduzca los tres cables en el compartimento de alimentación del DVD de 22 vías comprobando que los introduce en las cavidades correctas del conector del compartimento de alimentación. Acuda al manual de servicio si es necesario.
 - f) Coja el borde de bloqueo y conecte el conector en la radio.

With respect to the correctness of information.



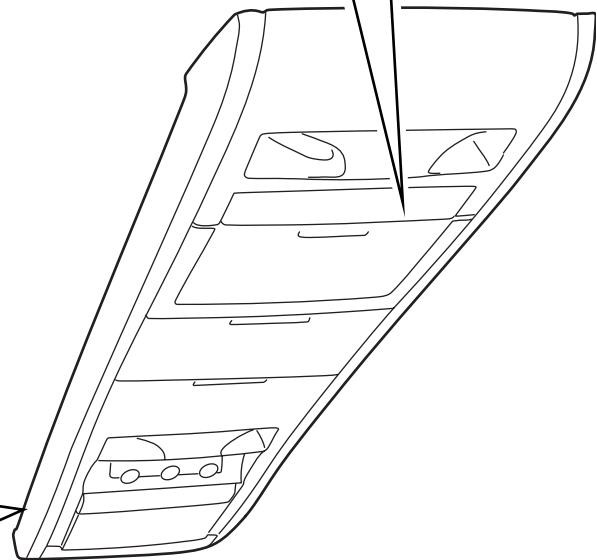
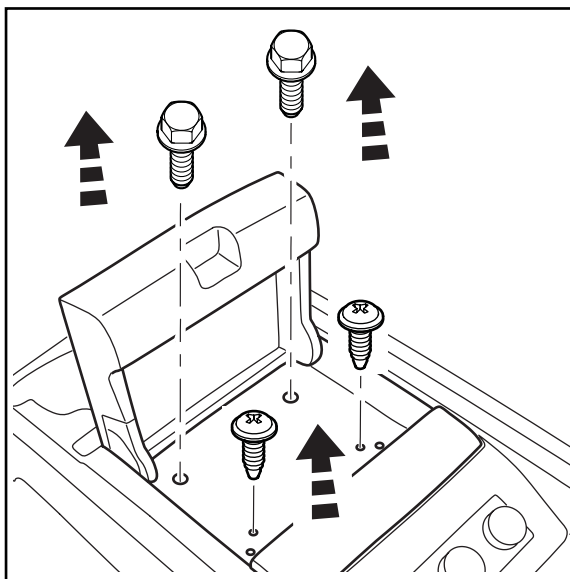
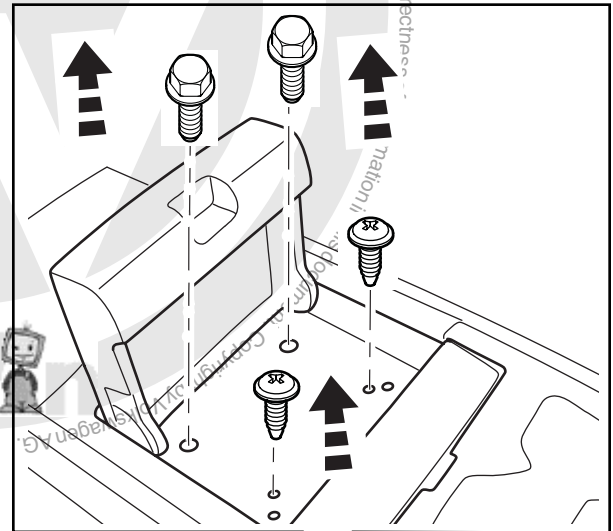
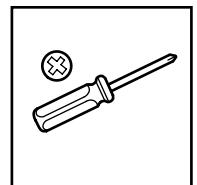
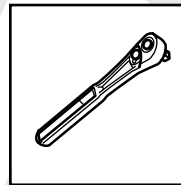


10 mm



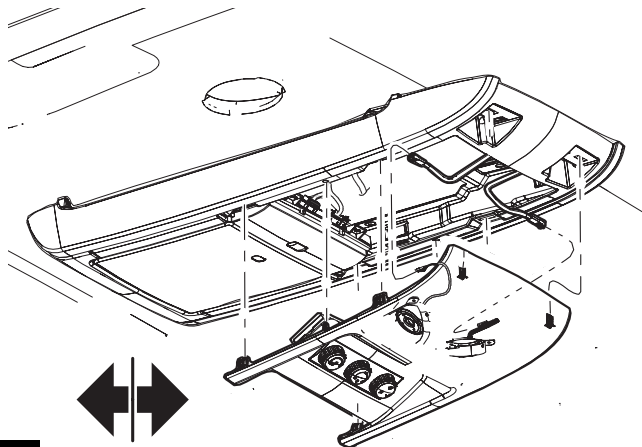
LONG CENTER
CONSOLE

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted without the prior written permission of Volkswagen AG.



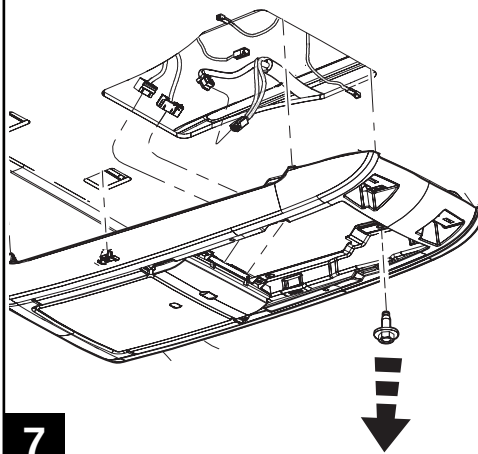
LONG CENTER
CONSOLE

SHORT CENTER CONSOLE (2ND ROW)

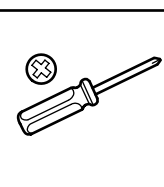


6

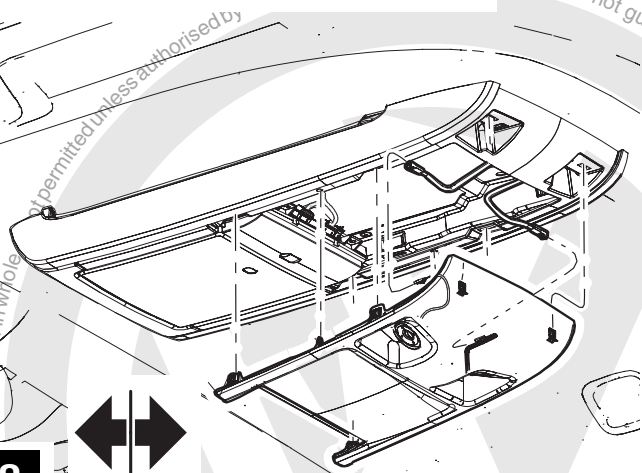
SHORT CENTER CONSOLE (2ND ROW)



7

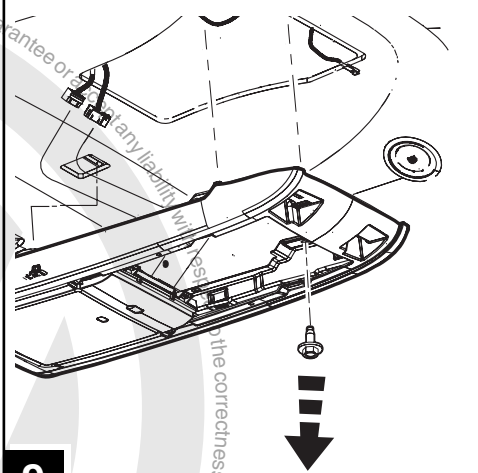


SHORT CENTER CONSOLE (3RD ROW)

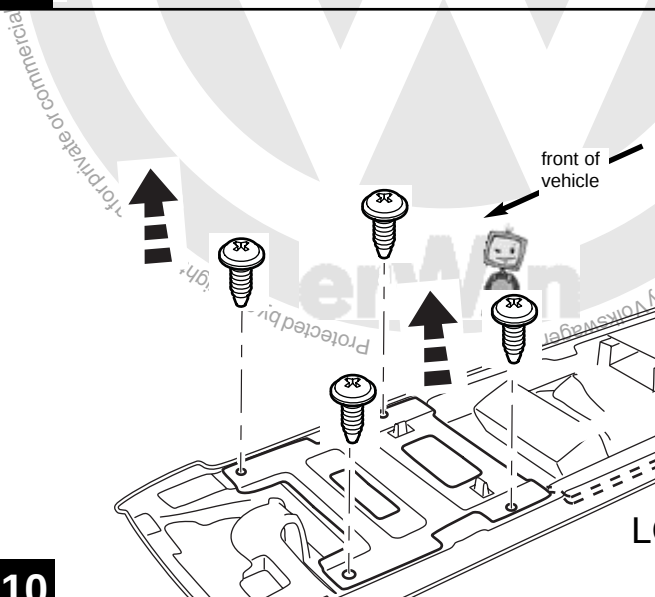
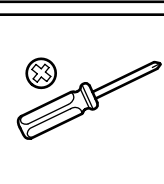


8

SHORT CENTER CONSOLE (3RD ROW)

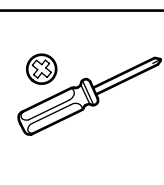


9

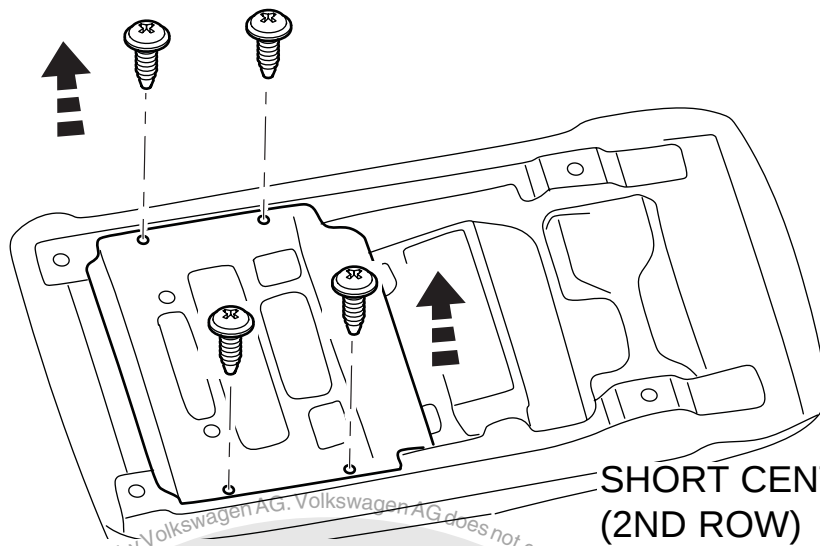


10

LONG CENTER CONSOLE

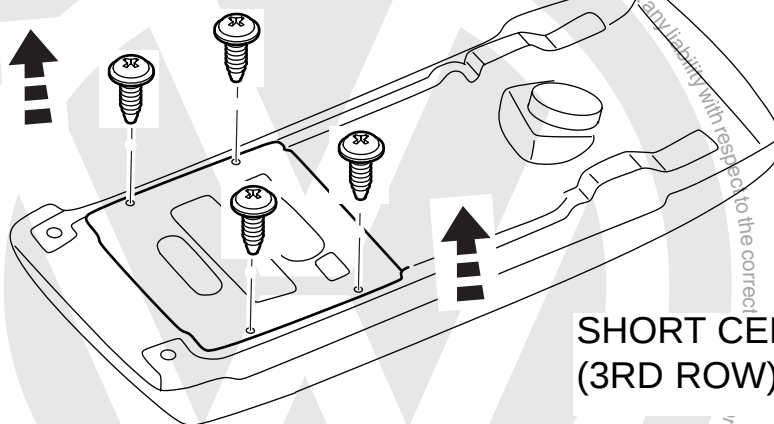


11



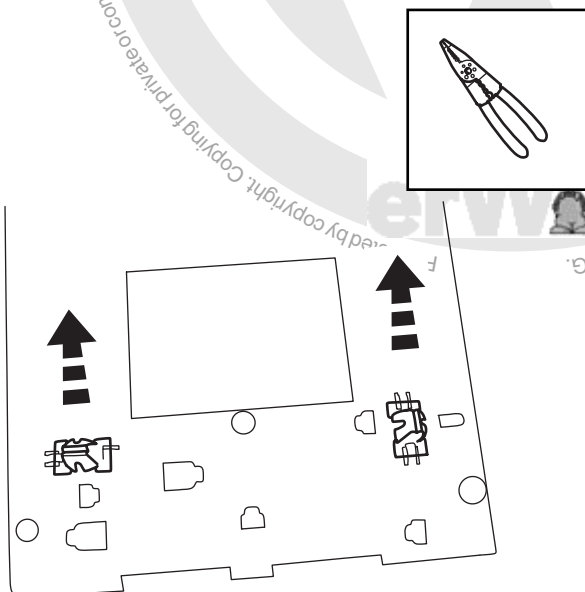
SHORT CENTER CONSOLE
(2ND ROW)

12

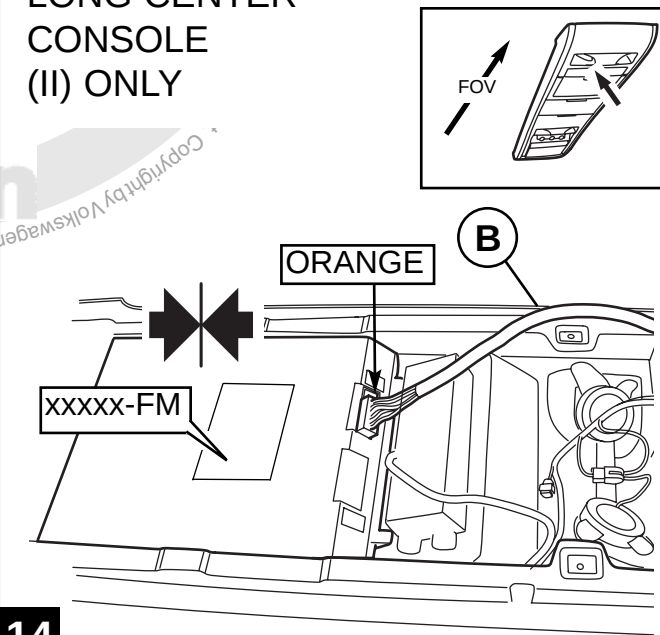


SHORT CENTER CONSOLE
(3RD ROW)

13

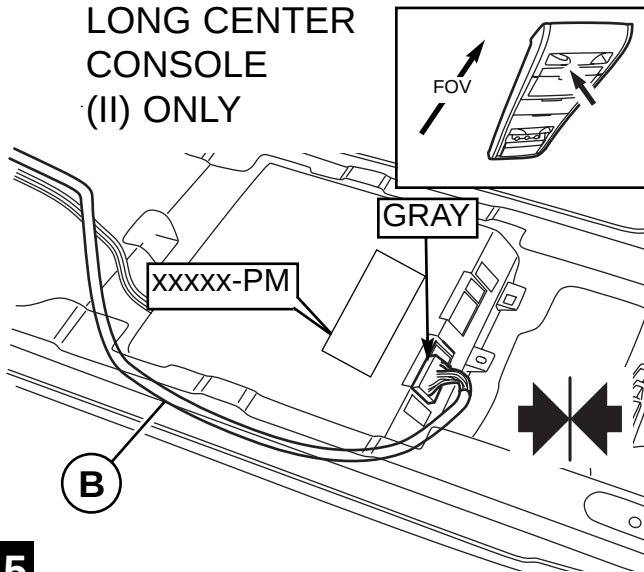


LONG CENTER
CONSOLE
(II) ONLY

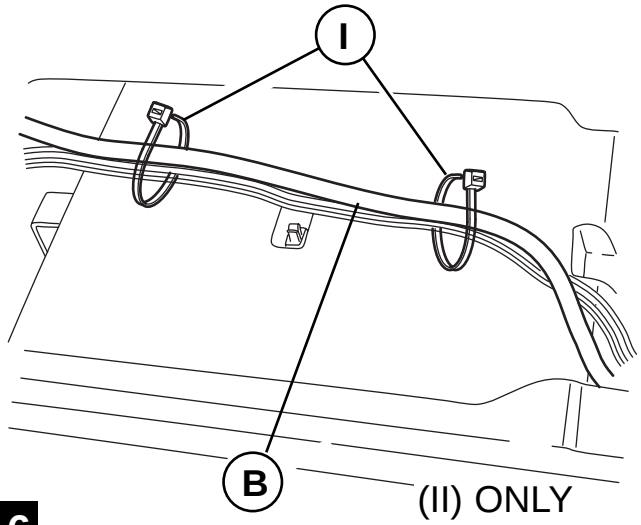


14

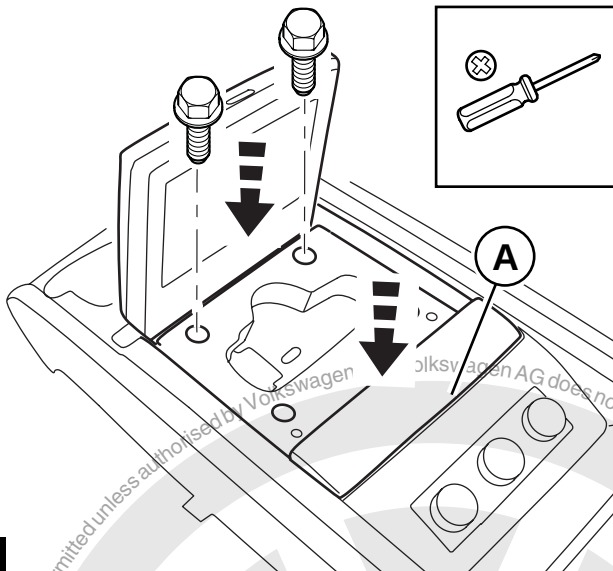
LONG CENTER
CONSOLE
(II) ONLY



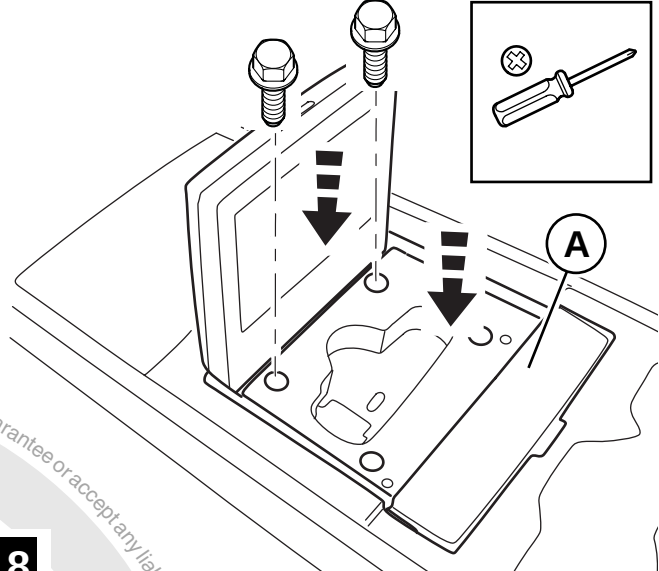
15



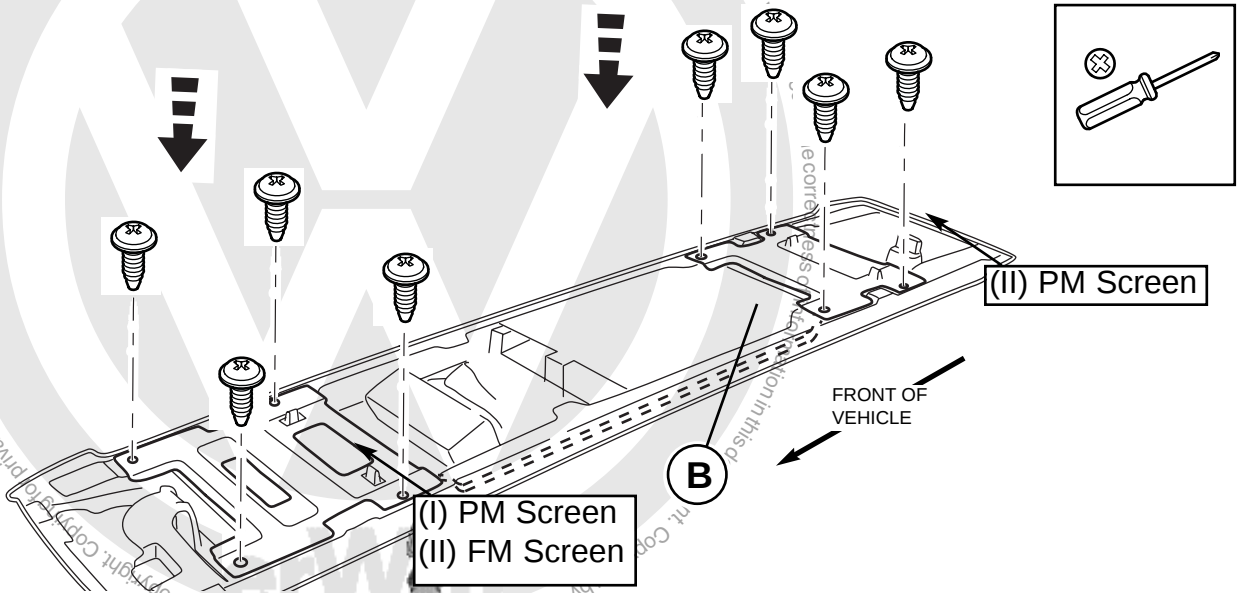
16



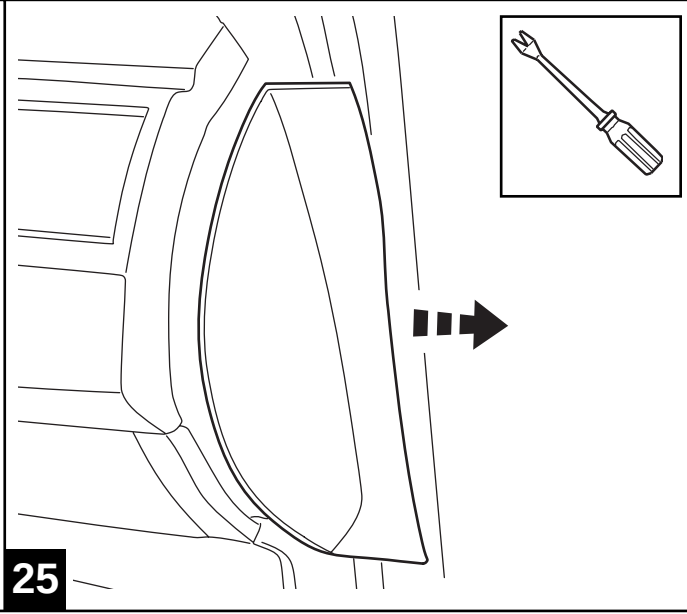
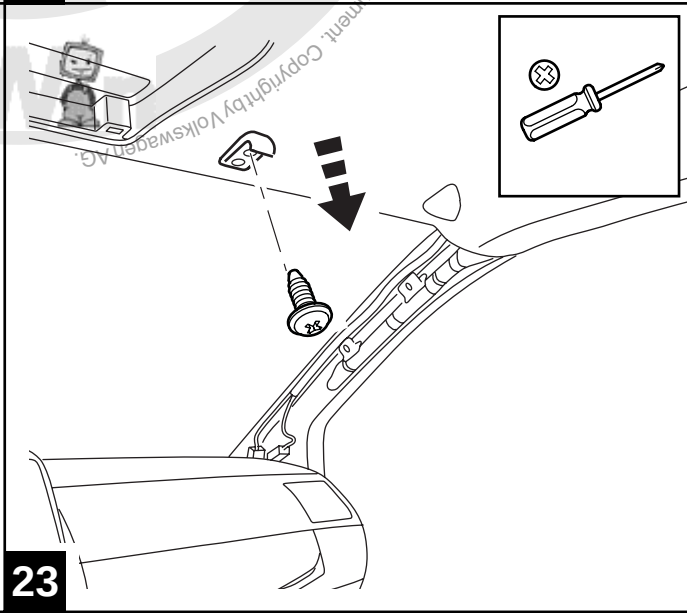
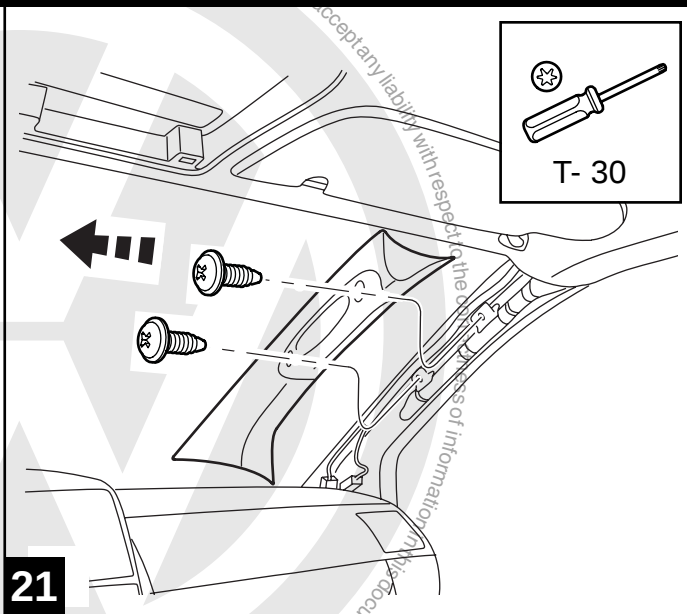
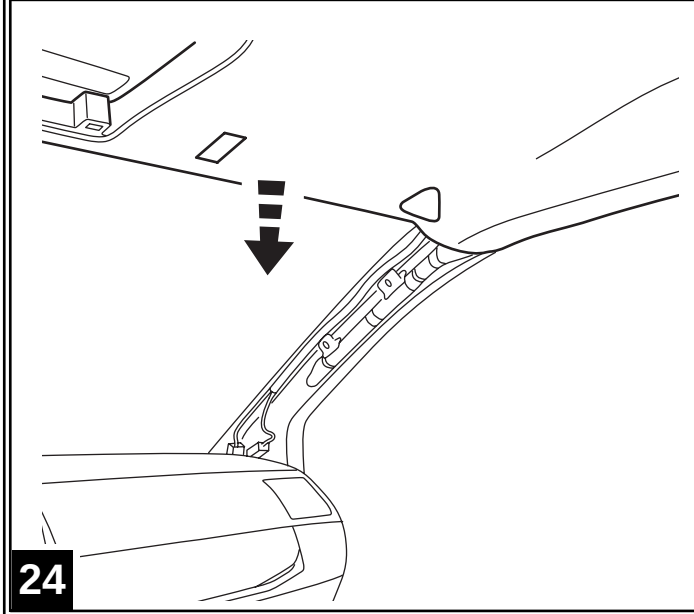
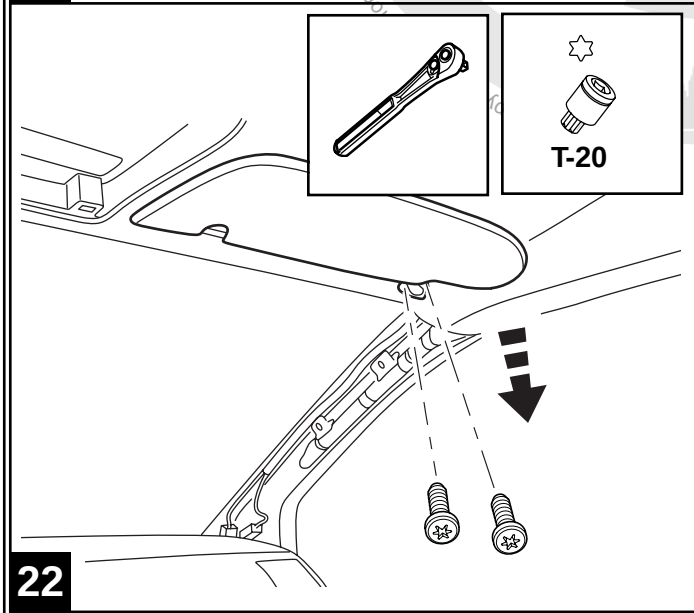
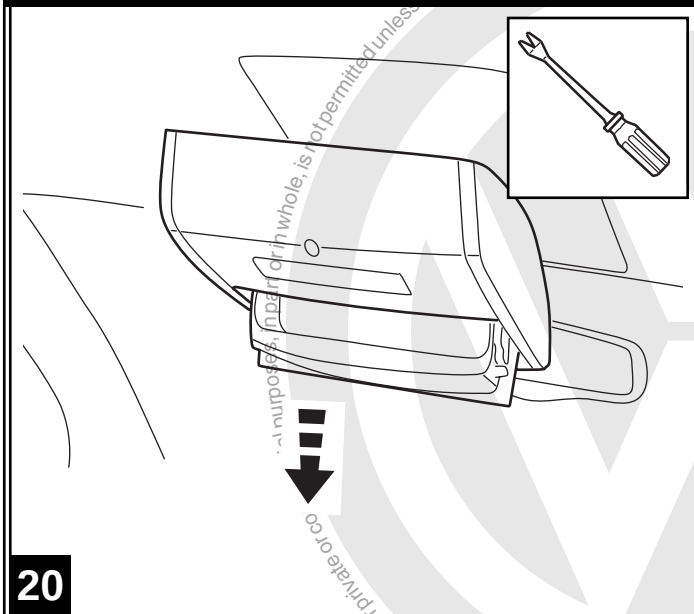
17

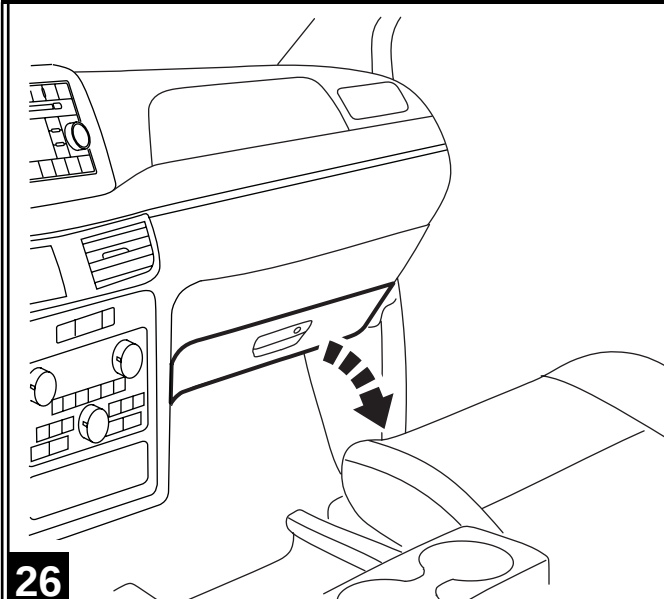


18

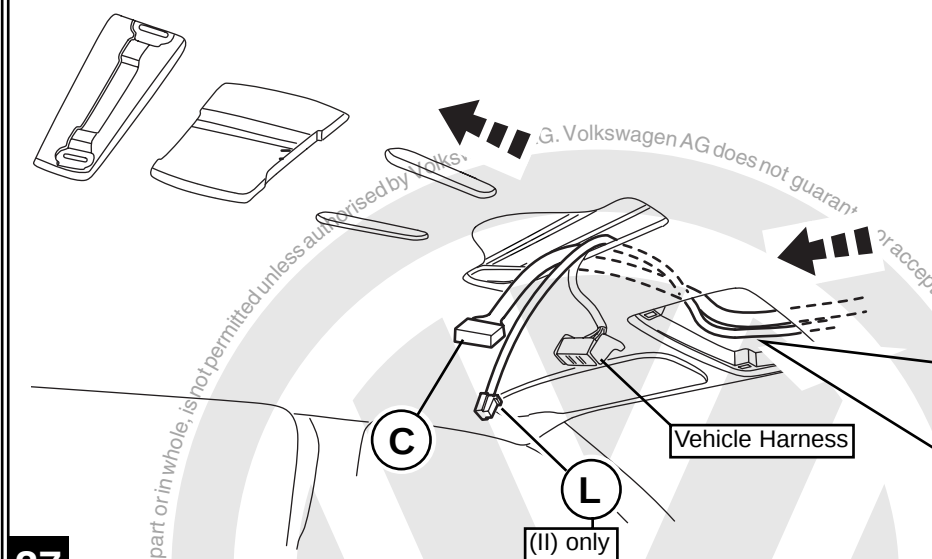
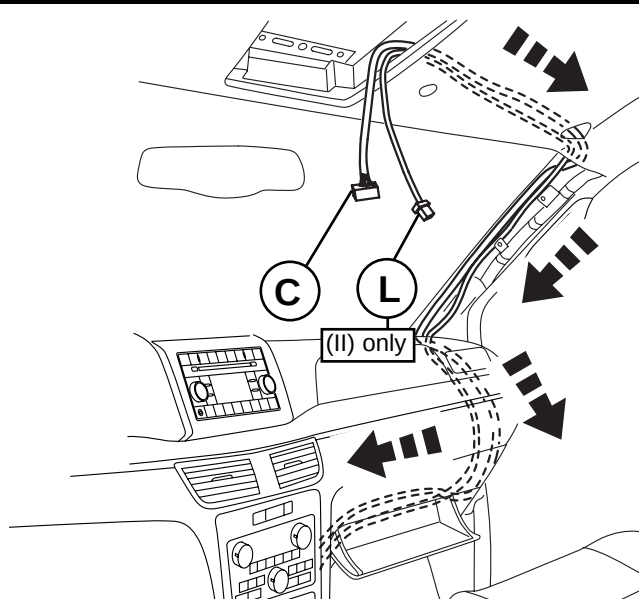


19

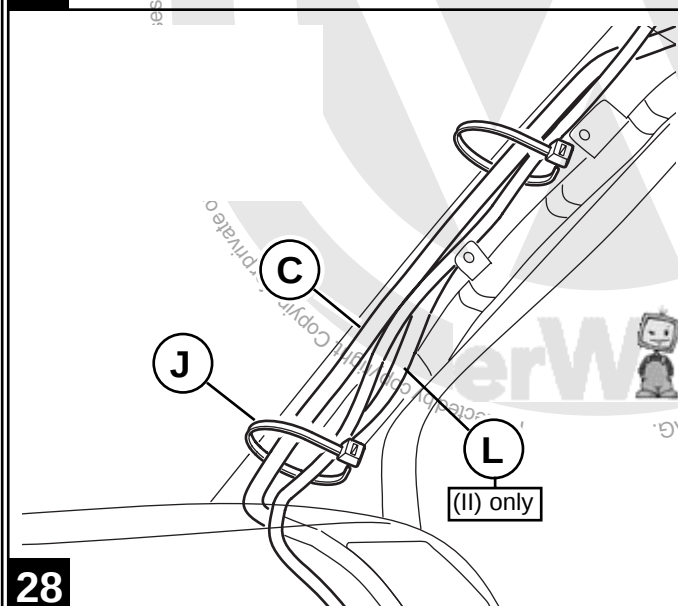
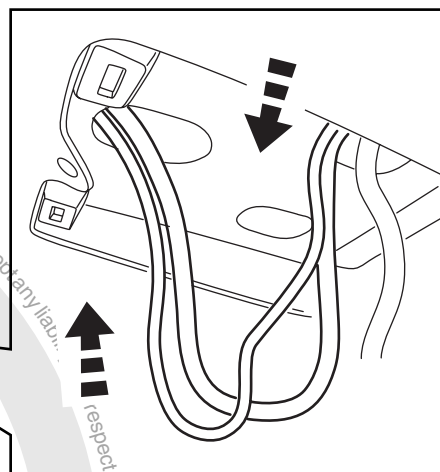




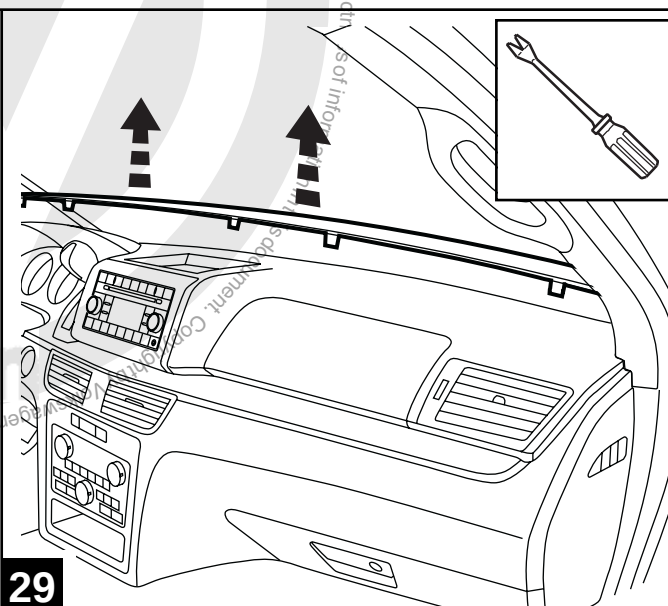
26



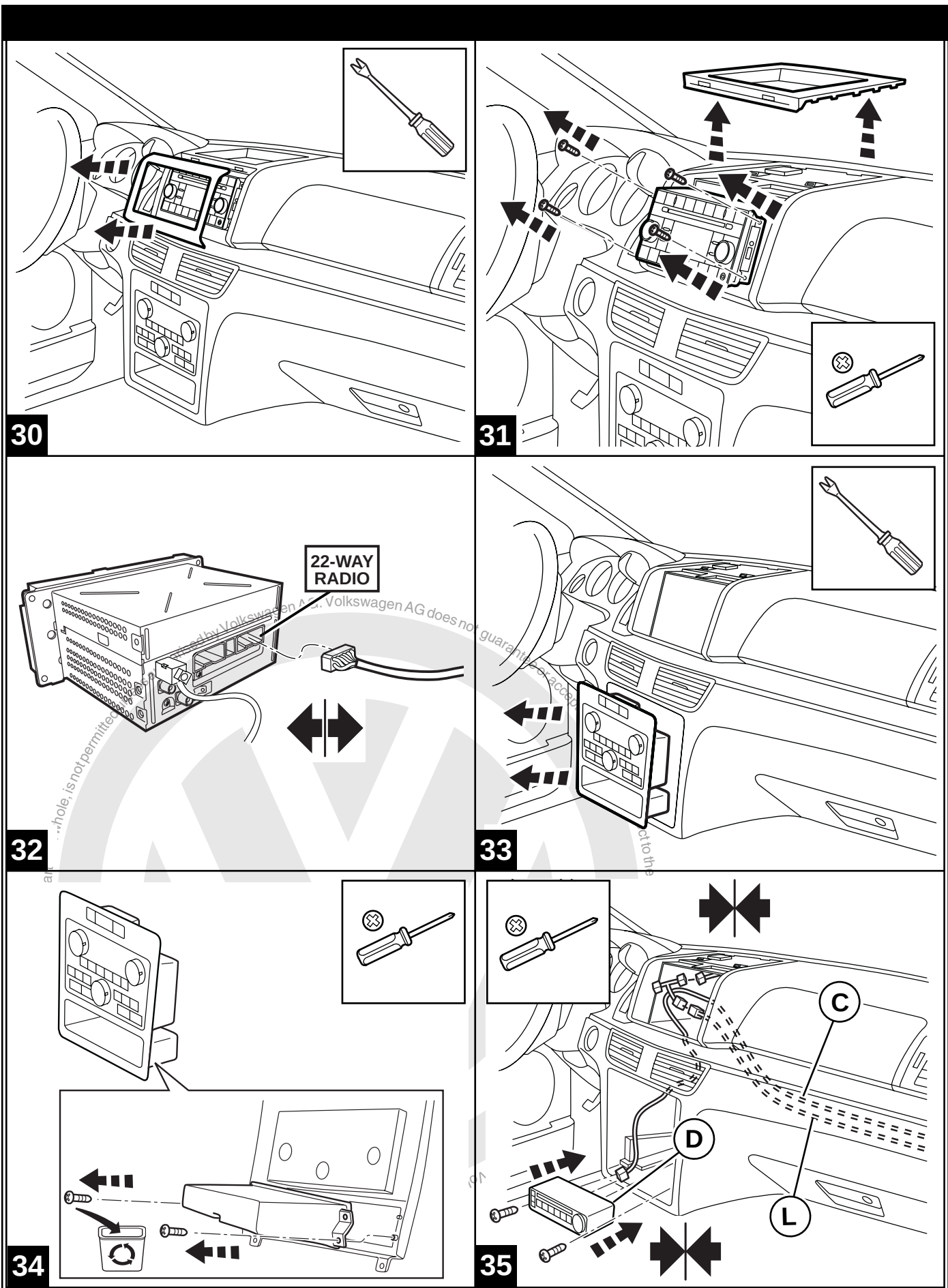
27

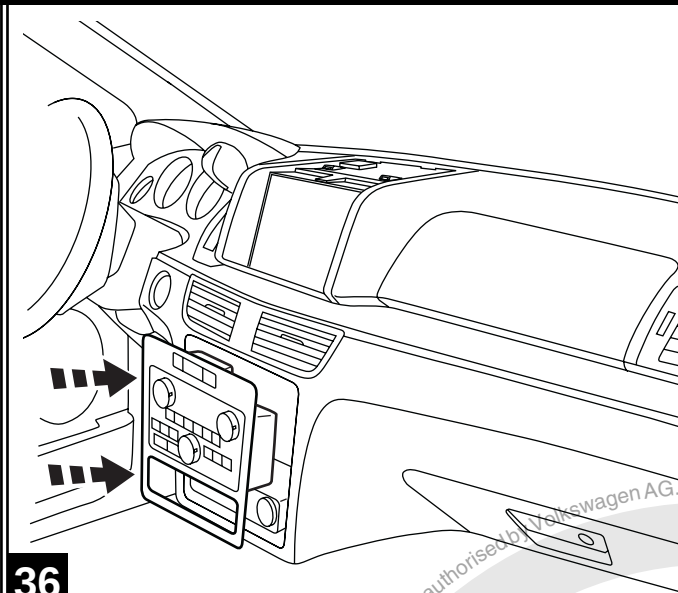


28

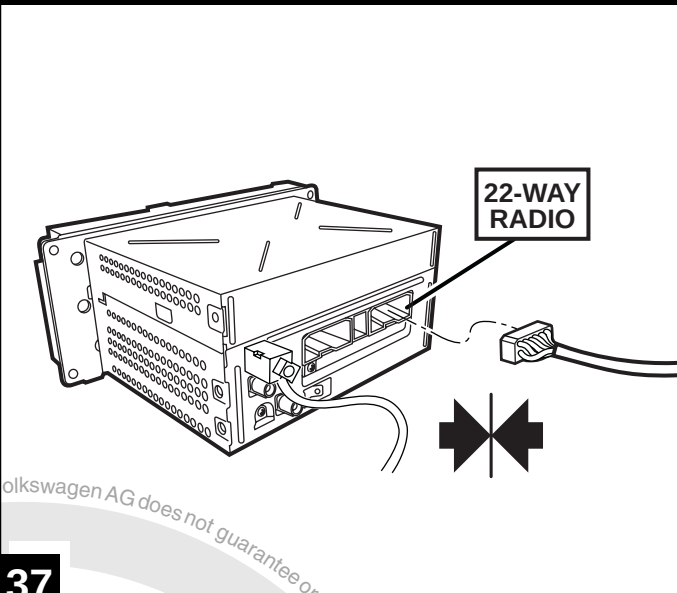


29

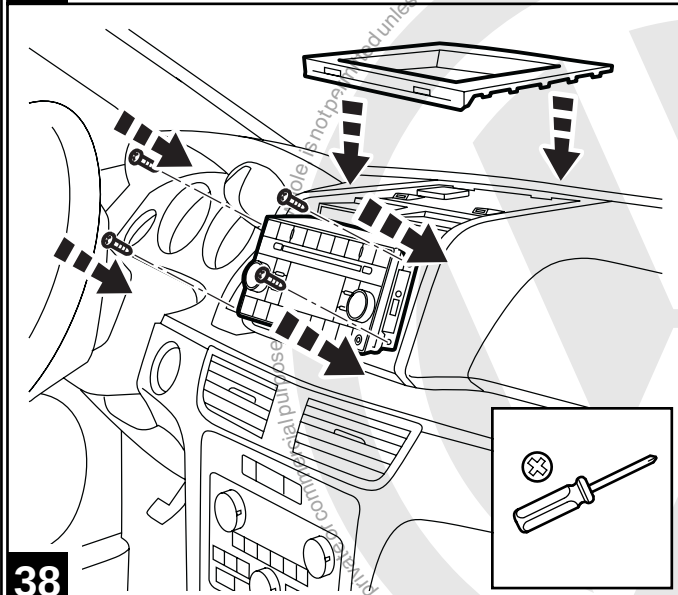




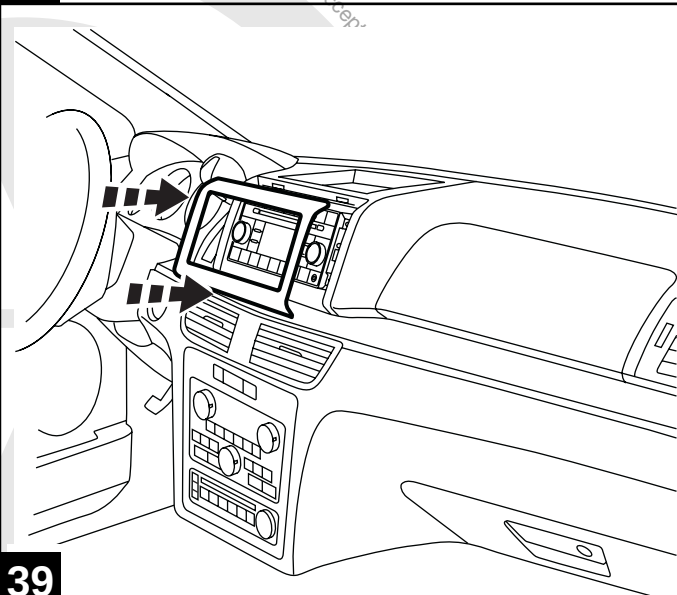
36



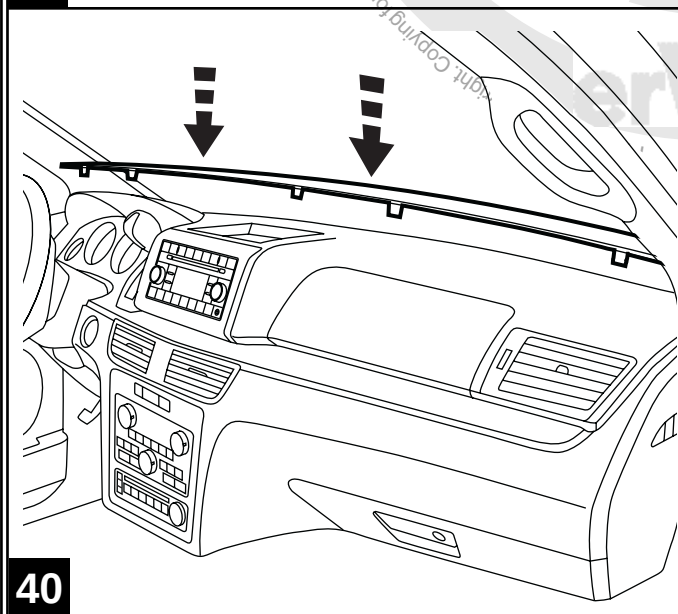
37



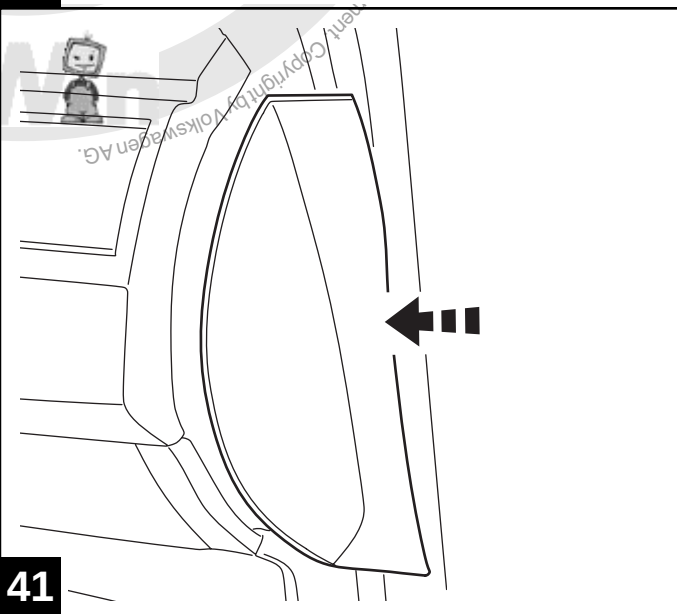
38



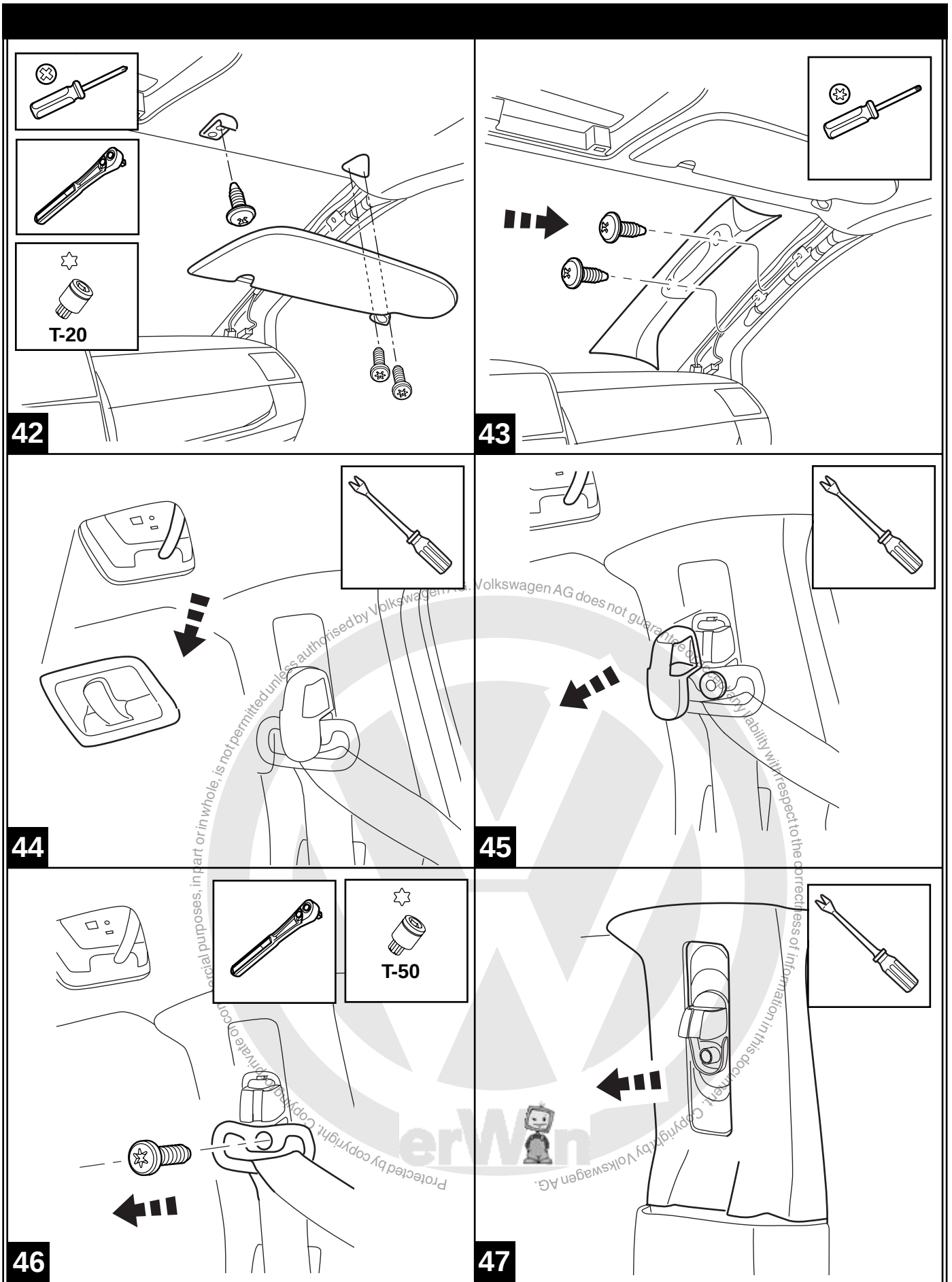
39



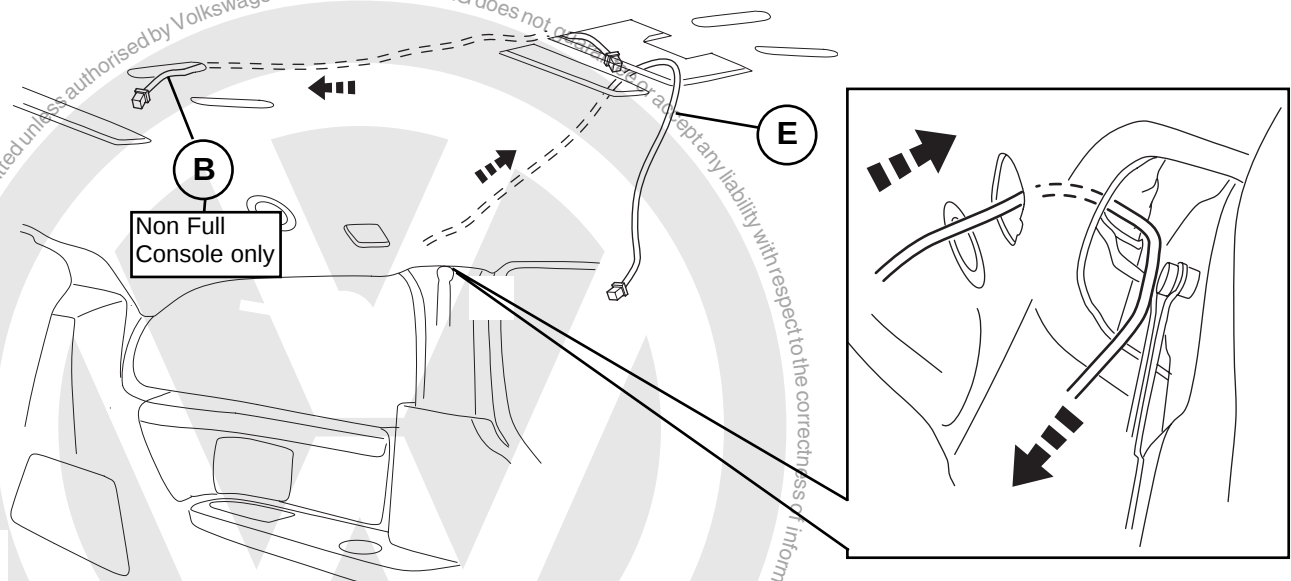
40



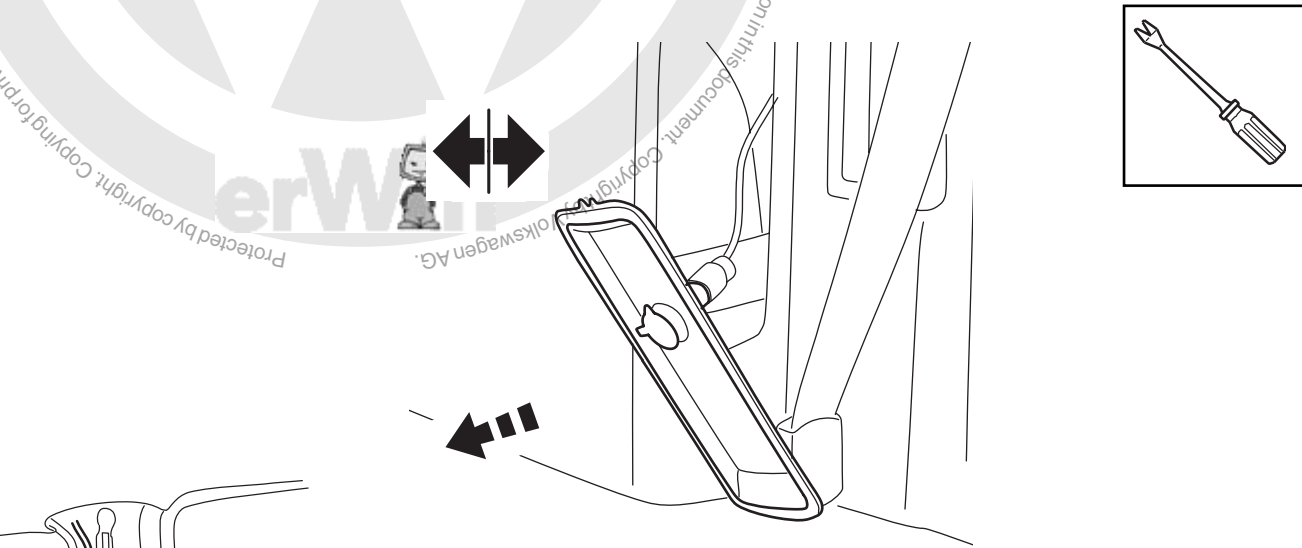
41



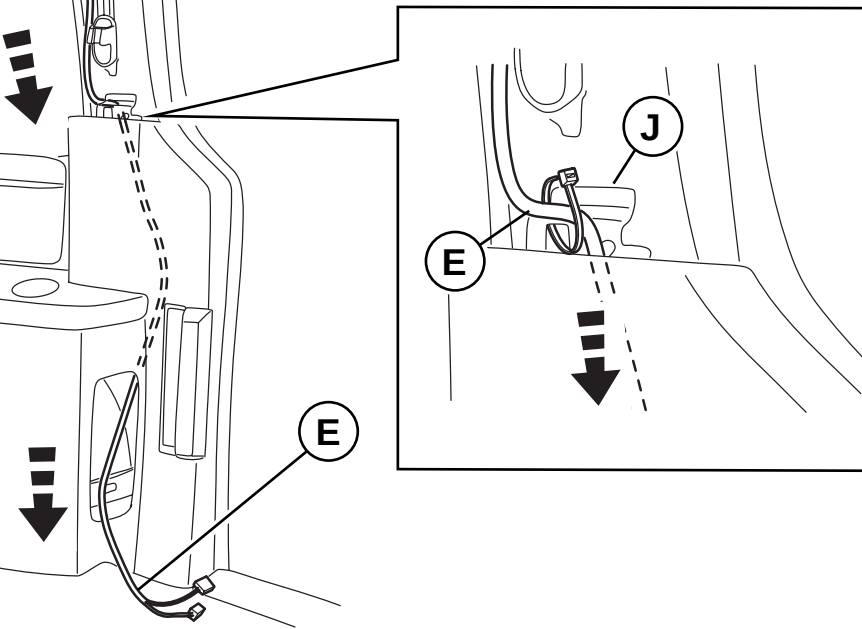
48



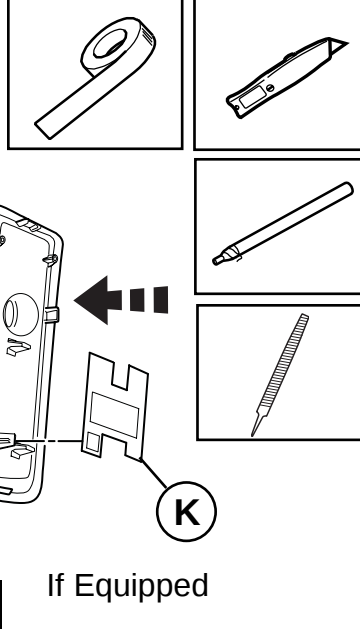
49



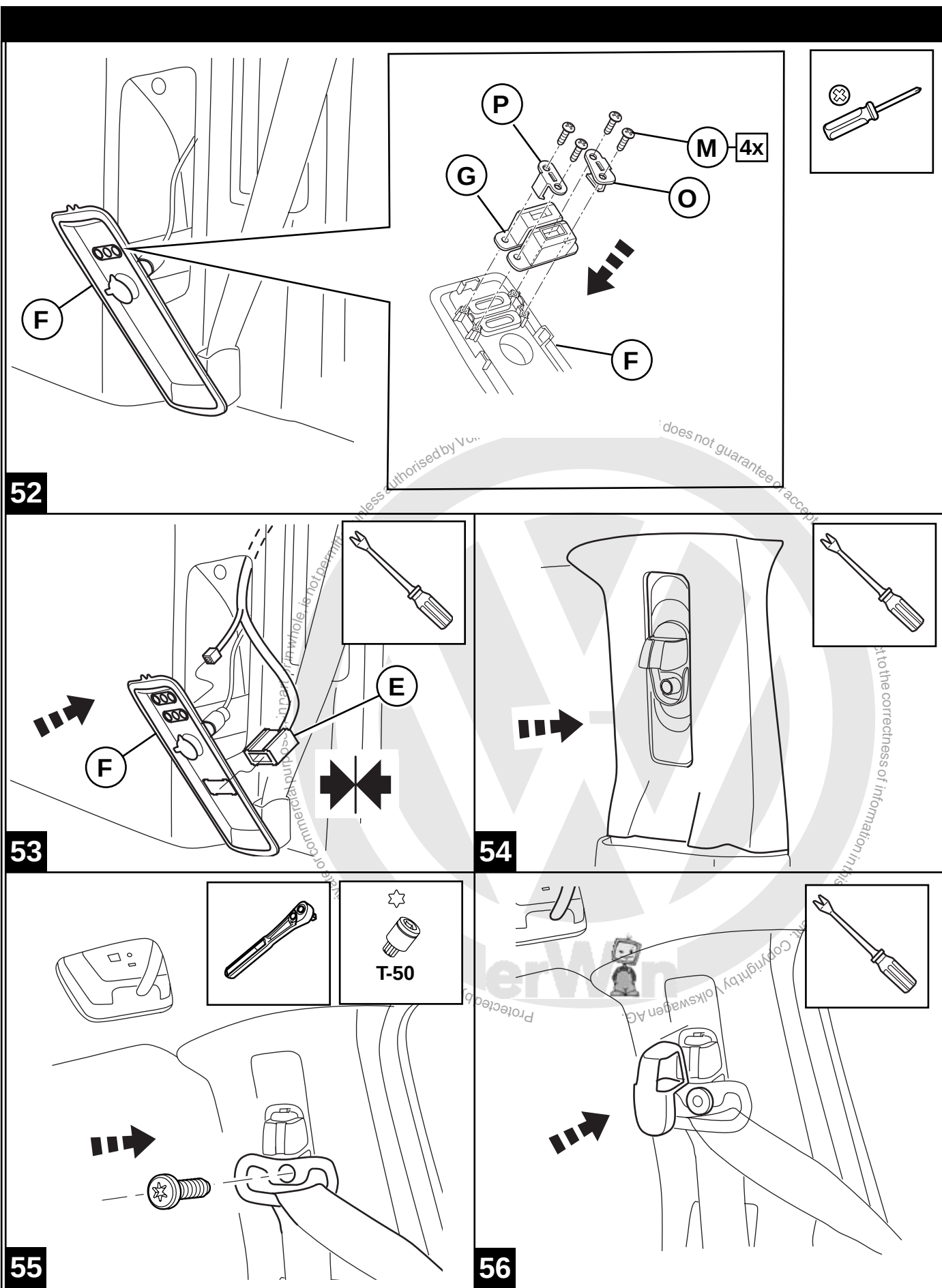
50



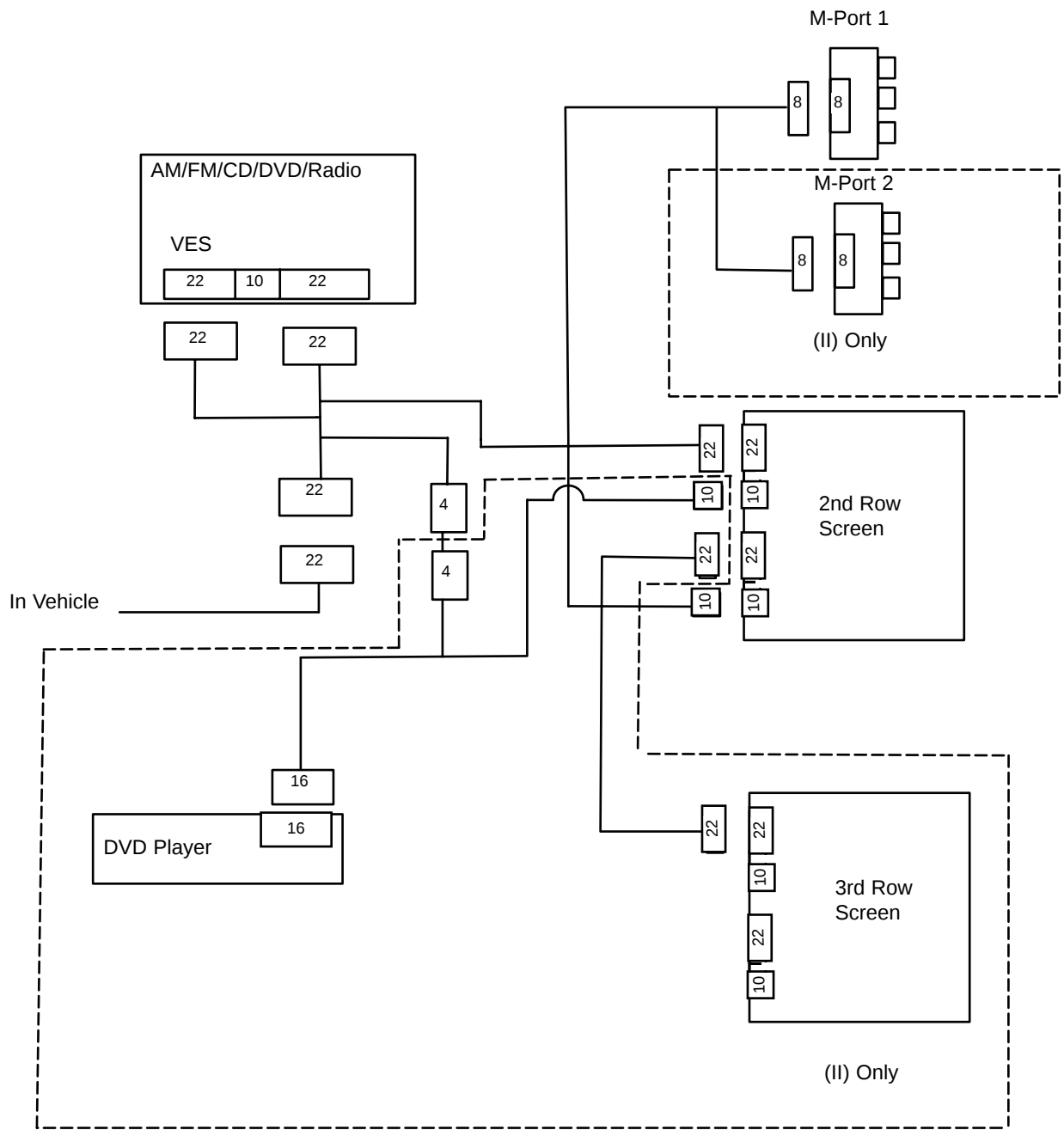
51



If Equipped



NOTE: REVERSE STEPS 2-9 FOR RE-INSTALLATION OF OVERHEAD CONSOLE



Vehicle Vin must be updated with the sales code of the added accessory in order to enable system functionality. Using the DealerCONNECT website and a StarSCAN diagnostic tool, complete the procedure below:

- Log on to <https://dealerconnect.chrysler.com>
- In the “Vehicle Option” screen under the “Global Claims System” category in the “Service” tab, enter vehicle VIN and add sales code(s) noted below as a “Dealer Installed Option”.

(RD9) (II Only)

(RF2) (I & II)

(RF1) (II Only)

- Confirm that the new sales code has been successfully added to the VIN.
- With the StarSCAN diagnostic tool **connected to both the internet** (via Ethernet port or wireless connection) **and the vehicle**, follow the steps below:

IN THE INITIAL START UP SCREEN

- PRESS----- **VEHICLE PREPARATION**
- TOGGLE DOWN AND HIGHLIGHT---- **RESTORE VEHICLE CONFIGURATION**
- PRESS----- **START**
- PRESS----- **NEXT>**
- IF NECESSARY, SELECT PROPER VEHICLE LINE AND MODEL YEAR AND PRESS--- **NEXT>**
- CONFIRM CORRECT SELECTION AND PRESS--- **NEXT>**
- ENTER VEHICLE VIN USING ON -SCREEN KEYBOARD OR CONFIRM THAT AUTO-FILLED VIN PLATE AND PRESS----- **NEXT>**
- PRESS----- **OK**
- ENTER USER ID, PASSWORD AND DEALER CODE USING ON-SCREEN KEYBOARD AND PRESS----- **OK**
- WAIT FOR VEHICLE CONFIGURATON DATA TO BE DOWNLOADED AND THEN PRESS-- **NEXT>**
- PRESS----- **NEXT>**
- CONFIRM THAT VEHICLE CONFIGURATION HAS BEEN PROGRAMMED SUCCESSFULLY
- NOTE ON-SCREEN INSTRUCTIONS AND PRESS----- **FINISH**

IN THE INITIAL START UP SCREEN

- PRESS ----- **ECU VIEW**
- TOGGLE DOWN AND HIGHLIGHT ----- **TIPMCGW CENTRAL GATEWAY**
- PRESS ----- **MISC FUNCTIONS**
- TOGGLE DOWN, SELECT ----- **DVD PLAYER / VIDEO SETTING**
- CONFIRM / CONFIGURE TO APPLICABLE LOCATION
- TOGGLE DOWN, SELECT ----- **CHANGE COUNTRY CODE**
- CONFIRM / CONFIGURE TO CORRECT COUNTRY OF USE

VALIDATION PROCESS

IN THE INITIAL START UP SCREEN

- PRESS ----- **ECU VIEW**
- TOGGLE DOWN AND HIGHLIGHT ----- **TIPMCGW CENTRAL GATEWAY**
- PRESS ----- **MORE OPTIONS**
- PRESS ----- **ECU DETAILS**
- PRESS ----- **CONFIG INFO**
- TOGGLE DOWN, VERIFY:
 - VES2 ----- SET (II ONLY)
 - VES3 ----- SET (I AND II)
 - COUNTRY CODE ----- (IS THE CORRECT COUNTRY CODE)
 - DVD REGION CODE ----- (IS THE CORRECT REGION CODE. I.E. 1 FOR NORTH AMERICA)

IN THE INITIAL START UP SCREEN

- PRESS ----- **ECU VIEW**
- TOGGLE DOWN AND HIGHLIGHT ----- **RADIO**
- PRESS ----- **MORE OPTIONS**
- PRESS ----- **ECU DETAILS**
- PRESS ----- **CONFIG INFO**
- TOGGLE DOWN, VERIFY:
 - EXTERNAL VES3 DETECTED ON BUS ----- TRUE (I AND II)
 - EXTERNAL DVD DETECTED ON BUS ----- TRUE (II ONLY)
 - EXTERNAL VES2 DETECTED ON BUS ----- TRUE (II ONLY)

Le NIV (numéro d'identification du véhicule) du véhicule doit être mis à jour avec le code de vente de l'accessoire ajouté afin que le système puisse être fonctionnel. À l'aide du site Web DealerCONNECT et de l'outil de diagnostic StarSCAN, suivre les étapes de la procédure ci-dessous :

- Se connecter à <https://dealerconnect.chrysler.com>
- Sur l'écran " Option du véhicule " situé sous la catégorie " Système général de réclamations " de l'onglet " Service ", saisir le NIV du véhicule et ajouter le(s) code(s) de vente noté(s) ci-dessous comme " Option installée par le concessionnaire ".

(RD9) (II Only)

(RF2) (I & II)

(RF1) (II Only)

- Confirmer que le nouveau code de vente a été ajouté au NIV avec succès.
- À l'aide de l'outil de diagnostic StarSCAN connecté à Internet (via un port Ethernet ou une connexion sans fil) ainsi qu'au véhicule, suivre les étapes ci-dessous :

SUR L'ÉCRAN DE DÉMARRAGE INITIAL

- APPUYER SUR-----**PRÉPARATION DU VÉHICULE**
- DÉFILER VERS LE BAS ET SÉLECTIONNER--**RESTAURER LA CONFIGURATION DU VÉHICULE**
- APPUYER SUR-----**DÉMARRER**
- APPUYER SUR-----**SUIVANT**
- SI NÉCESSAIRE, SÉLECTIONNER LA LIGNE ET L'ANNÉE DU MODÈLE DU VÉHICULE ADÉQUATES ET APPUYER SUR--**SUIVANT**
- CONFIRMER LA SÉLECTION SI CORRECTE ET APPUYER SUR--**SUIVANT**
- SAISIR LE NIV DU VÉHICULE À L'AIDE DU CLAVIER À L'ÉCRAN OU CONFIRMER LE NIV PRÉ-REMPI ET APPUYER SUR-----**SUIVANT**
- APPUYER SUR -----**OK**
- SAISIR L'IDENTIFIANT UTILISATEUR, LE MOT DE PASSE ET LE CODE CONCESSIONNAIRE À L'AIDE DU CLAVIER À L'ÉCRAN ET APPUYER SUR-----**OK**
- ATTENDRE QUE LES DONNÉES DE CONFIGURATION DU VÉHICULE SOIENT TÉLÉCHARGÉES ET APPUYER SUR--**SUIVANT**
- APPUYER SUR-----**SUIVANT**
- CONFIRMER QUE LA CONFIGURATION DU VÉHICULE A ÉTÉ PROGRAMMÉE AVEC SUCCÈS
- NOTER LES INSTRUCTIONS AFFICHÉES À L'ÉCRAN ET APPUYER SUR----**TERMINER**

SUR L'ÉCRAN DE DÉMARRAGE INITIAL

- APPUYER SUR ----- **AFFICHAGE COMMANDE**
- DÉROULER VERS LE BAS ET SÉLECTIONNER ----- **TERMINAL CENTRAL TIPMCGW**
- APPUYER SUR ----- **FONCTIONS DIVERSES**
- DÉROULER VERS LE BAS ET SÉLECTIONNER ----- **LECTEUR DVD / PARAPMÈTRE VIDÉO**
- CONFIRMER / CONFIGURER POUR LA LOCALISATION APPROPRIÉE
- DÉROULER VERS LE BAS ET SÉLECTIONNER ----- **CHANGER LE CODE DU PAYS**
- CONFIRMER / CONFIGURER POUR CORRIGER LE PAYS D'UTILISATION

PROCÉDÉ DE VALIDATION

SUR L'ÉCRAN DE DÉMARRAGE INITIAL

- APPUYER SUR ----- **AFFICHAGE COMMANDE**
- DÉROULER VERS LE BAS ET SÉLECTIONNER ----- **TERMINAL CENTRAL TIPMCGW**
- APPUYER SUR ----- **OPTIONS SUPPL**
- APPUYER SUR ----- **DÉTAILS COMMANDE**
- APPUYER SUR ----- **INFO CONFIG**
- DÉROULER VERS LE BAS, VÉRIFIER :
VES3 ----- DÉFINIR (I ET II)
CODE PAYS ----- (LE CODE PAYS EST CORRECT)
CODE RÉGION DVD ----- (LE CODE PAYS EST CORRECT. EX. 1 POUR L'AMÉRIQUE DU NORD)

SUR L'ÉCRAN DE DÉMARRAGE INITIAL

- APPUYER SUR ----- **AFFICHAGE COMMANDE**
- DÉROULER VERS LE BAS ET SURLIGNER ----- **RADIO**
- APPUYER SUR ----- **OPTIONS SUPPL**
- APPUYER SUR ----- **DÉTAILS COMMANDE**
- APPUYER SUR ----- **INFO CONFIG**
- DÉROULER VERS LE BAS, VÉRIFIER :
EXTERNAL VES3 EXTERNE DÉTECTÉ SUR BUS ----- VRAI (I ET II)
EXTERNAL DVD EXTERNE DÉTECTÉ SUR BUS ----- TRUE (II UNIQUEMENT)
EXTERNAL VES2 EXTERNE DÉTECTÉ SUR BUS ----- TRUE (II UNIQUEMENT)

El NIV (número de identificación del vehículo) deberá estar actualizado con el código de ventas del accesorio añadido con vistas a activar la funcionalidad del sistema. Con ayuda de la página Web de DealerCONNECT y de la herramienta de diagnóstico StarSCAN, complete el proceso indicado a continuación:

- Regístrese en la página <https://dealerconnect.chrysler.com>
- En la pantalla de la "Opción del vehículo" bajo la categoría "Sistema de reclamaciones globales" de la pestaña "Servicio", introduzca el NIV y el/los código(s) de venta indicados más abajo como "Opción instalada por el distribuidor"

(RD9) (II Only)

(RF2) (I & II)

(RF1) (II Only)

- Confirme que el nuevo código de ventas se ha añadido correctamente al NIV.
- Con la herramienta de diagnóstico StarSCAN conectada tanto a Internet (mediante el puerto Ethernet por conexión inalámbrica) como al vehículo, siga los pasos indicados a continuación:

EN LA PANTALLA DE INICIO

- PULSE-----**PREPARACIÓN DEL VEHÍCULO**
- BAJE POR LA LISTA Y RESALTE -----**RECUPERAR LA CONFIGURACIÓN DEL VEHICULO**
- PULSE-----**INICIO**
- PULSE-----**SIGUIENTE**
- SI ES NECESARIO, SELECCIONE LA LÍNEA DEL VEHÍCULO ADECUADO Y EL AÑO DEL MODE LO Y PULSE---**SIGUIENTE**
- CONFIRME LA SELECCIÓN CORRECTA Y PULSE ---**SIGUIENTE**
- INTRODUZCA EL NIV DEL VEHÍCULO UTILIZANDO EL TECLADO DE LA PANTALLA O CONFIRME QUE EL CAMPO PRE-CUMPLIMENTADO DE LA PLACA DEL NIV Y PULSE -**OK**
- PULSE-----**SIGUIENTE**
- INTRODUZCA EL NOMBRE DE USUARIO, LA CONTRASEÑA Y EL CÓDIGO DEL DISTRIBUIDOR UTILIZANDO EL TECLADO DE LA PANTALLA Y PULSE -----**OK**
- ESPERE A QUE LOS DATOS DE LA CONFIGURACIÓN DEL VEHÍCULO SE DESCARGUEN Y A CONTINUACIÓN, PULSE --**SIGUIENTE**
- PULSE-----**SIGUIENTE**
- CONFIRME QUE LA CONFIGURACIÓN DEL VEHÍCULO HA SIDO PROGRAMADA CORRECTAMENTE
- SIGA DETENIDAMENTE LAS INSTRUCCIONES QUE APARECERÁN EN PANTALLA Y PULSE-**TERMINAR**

EN LA PANTALLA DE INICIO

- PULSE ----- **VISUALIZAR ECU**
- DESPLACESE HACIA ABAJO Y MARQUE ----- **PUERTA DE ACCESO TIPMC GW**
- PULSE ----- **FUNCIONES DIVERSAS**
- DESPLACESE HACIA ABAJO, SELECCIONE -----
CONFIGURAR REPRODUCTOR DE DVD / VIDEO
- CONFIRME / CONFIGURE LA UBICACIÓN APLICABLE
- DESPLACESE HACIA ABAJO, SELECCIONE ----- **CAMBIAR CÓDIGO DE PAÍS**
- CONFIRME / CONFIGURE EL PAÍS CORRECTO A UTILIZAR

PROCESO DE VALIDACIÓN EN LA PANTALLA DE INICIO

- PULSE ----- **VISUALIZAR ECU**
- DESPLACESE HACIA ABAJO Y MARQUE ----- **PUERTA DE ACCESO TIPMC GW**
- PULSE ----- **MÁS OPCIONES**
- PULSE ----- **DETALLES DE LA ECU**
- PULSE ----- **CONFIGURAR INFORMACIÓN**
- DESPLACESE HACIA ABAJO, VERIFIQUE:
VES3 ----- SET (I Y II)
CÓDIGO DE PAÍS ----- (ES EL CÓDIGO DE PAÍS CORRECTO)
CÓDIGO DE REGIÓN DE DVD ----- (ES EL CÓDIGO DE REGIÓN CORRECTO. EJEMPLO: 1
PARA NORTE AMÉRICA)

EN LA PANTALLA DE INICIO

- PULSE ----- **VISUALIZAR ECU**
- DESPLACESE HACIA ABAJO Y MARQUE ----- **RADIO**
- PULSE ----- **MÁS OPCIONES**
- PULSE ----- **DETALLES DE LA ECU**
- PULSE ----- **CONFIGURAR INFORMACIÓN**
- DESPLACESE HACIA ABAJO, VERIFIQUE:
VES3 EXTERNO DESELECCIONADO EN BUS ----- CIERTO (I Y II)
DVD EXTERNO DESELECCIONADO EN BUS ----- CIERTO (II)
VES2 EXTERNO DESELECCIONADO EN BUS ----- CIERTO (II)

64ES

Cautions & Warnings

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.

Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.