

## ISTRUZIONI DI MONTAGGIO

FITTING INSTRUCTIONS  
 INSTRUCTIONS DE MONTAGE  
 MONTAGEANLEITUNG  
 INSTRUCCIONES DE MONTAJE

<b>DISPOSITIVO DI TRAINO</b> <b>TIPO</b> TOWING BRACKET TYPE DISPOSITIF DE REMORQUAGE TYPE ANHAENGEVORRICHTUNG TYP DISPOSITIVO DE CAREO TIPO	<b>13157</b>
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<b>PER AUTOVEICOLI</b> FOR CARS POUR AUTOS FÜR KRAFTFAHRZEUGE PARA AUTOVEHICULO	<b>FIAT DOBLÓ</b> <b>OPEL COMBO</b>
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<b>TYPE</b>	<b>263, COMBO-D</b>	<b>2010 =&gt;</b>
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<b>CLASSE E TIPO DI ATTACCO</b> CLASS AND HITCH TYPE CLASSE ET TYPE DE CROCHET KLASSE UND BEFESTIGUNGSART CLASES DE ACOPLAMIENTO	<b>OMOLOGAZIONE</b> HOMOLOGATION HOMOLOGATION ZULASSUNG APROBACION	<b>CARICO VERTICALE MAX</b> S VALUE MASSE VERTICALE MAXIMUM ZUL. STUETZLAST CARGA MAX. VERTICAL
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<b>F</b>	<b>e3 00 – 7575</b> (DIR. 94/20/CE)	<b>S = kg 90</b>
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<b>VALORE D</b> D VALUE VALEUR D D WERT VALOR D	$D = \frac{\text{Max } \downarrow \text{ Kg}}{\text{Max } \downarrow \text{ Kg}} \times 0,00981 \leq 9,7 \text{ kN}$
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<b>COPPIA DI SERRAGGIO PER VITI (8.8):</b> TORQUE SETTINGS FOR NUTS AND BOLTS (8.8): COUPLE DE SERRAGE POUR VIS (8.8): SCHRAUBENANZUGSMOMENT (8.8): MOM. DE PRESION PARA TORNILLOS Y TUERCAS (8.8):	<table> <tr> <td>M6 = 10 Nm</td> <td>M8 = 25 Nm</td> </tr> <tr> <td>M10 = 55 Nm</td> <td>M12 = 85 Nm</td> </tr> <tr> <td>M14 = 135 Nm</td> <td>M16 = 200 Nm</td> </tr> </table>	M6 = 10 Nm	M8 = 25 Nm	M10 = 55 Nm	M12 = 85 Nm	M14 = 135 Nm	M16 = 200 Nm
M6 = 10 Nm	M8 = 25 Nm						
M10 = 55 Nm	M12 = 85 Nm						
M14 = 135 Nm	M16 = 200 Nm						

# SAFETY INSTRUCTIONS


- ◆ Make sure that the towbar is suitable for the vehicle before starting the installation.
- ◆ For safety, all work involving towbar installation (incl. electrical components) must be undertaken by skilled technicians.
- ◆ Damaged components must be replaced with manufacturer's spares and fitted by qualified staff.
- ◆ It is forbidden to make any modification or structural repair to towing assembly.

# USE AND MAINTENANCE

- ◆ The towball must be kept clean and lubricated. For added safety, his diameter (50 mm) must be checked at regular intervals. If the towball measures less than 49 mm after selected readings across the diameter, the towball must be replaced with a new one.
- ◆ After 1000 km of towing, check torque settings for nuts and bolts, in accordance with the table.
- ◆ Umbra Rimorchi cannot be held responsible for any defects in the product caused by fault or by any injudicious use whatever of the user or a person he is liable for.

# CAUTION

The tow bar installer must fix at the same level with the ball in a clear position, a plate with the ball's maximum load for the vehicle on which the tow bar is fitted.

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# FITTING INSTRUCTIONS

## 13157

Remove below the vehicle any mastic from contact points between the chassis and the tow bar; then paint mastic free pieces with rust inhibitor.

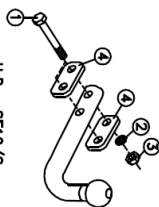
1. Remove the rear lights and the bumper;
2. Remove and eliminate the central bracket for the bumper fixing and then eliminate the reinforcement bar;
3. Remove the plastic covers that protect the anchoring points placed on the chassis-rails;
4. Insert the tie rods "A" inside of the chassis-rails referring to the holes "01" and "02", insert the screws and fix them interposing the large washers in position "01";
5. Place the cross bar "B" between the two tie rods according to the version you are installing the tow bar on, (Doblò normal or Doblò natural Power), referring to the holes "03" and "04", insert the screws and fix;
6. Tighten all bolts and nuts as shown in the enclosed layout;
7. Connect the wiring to the socket, following the car booklet's instructions "*use and maintenance*" as shown in the enclosed wiring kit layout;
8. **Only for Doblò Natural Power:** invert the spacer of the socketholder as shown in the enclosed layout;
9. Make a cut on the bumper as shown in the enclosed layout;
10. Back together the bumper and the rear lights.

### INVISIBLE AND SWIVELING SOCKETHOLDER

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13157

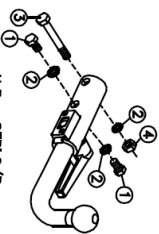
13157/F	
①	2x M12x85 (8.8)
②	2x 12.2x27x2.5
③	2x M12 (8.8)
④	2x SPACERS



U.R. SF12/S  
e3 00-7672  
(F60A)

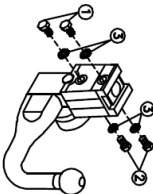
①	2x	M10x30	10x22x1.5	10x40x2
②	6x	M10 ORIGINAL		
③	2x	M12x30	12x27x2	M12
④	2x	M12x30	12x27x2	
⑤	.	M12		

13157/C	
①	2x M12x25 (8.8)
②	3x 12.2x27x2.5
③	1x M12x85 (8.8)
④	1x M12 (8.8)



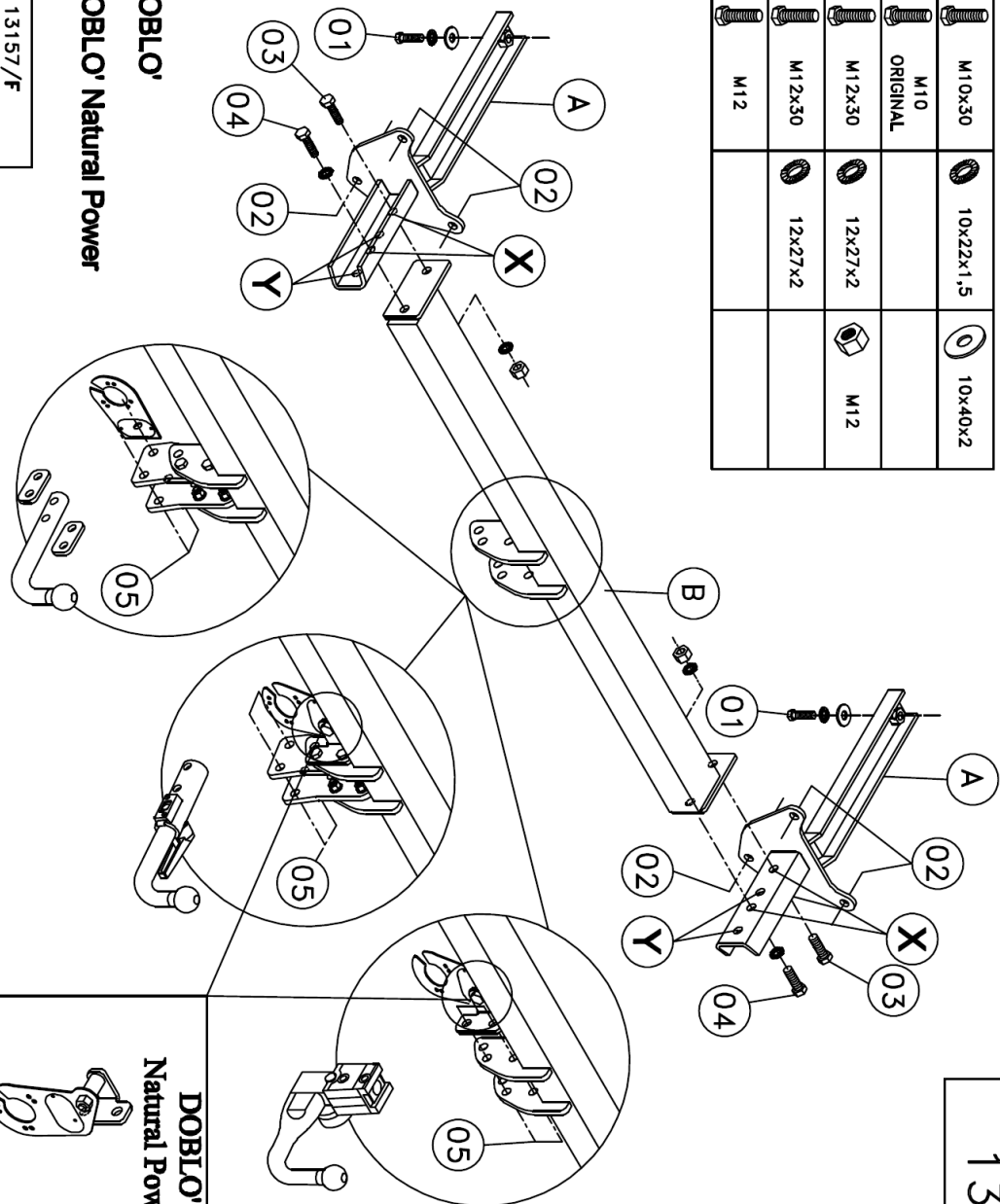
U.R. SFBLC/D  
e3 00-7137  
(60 AV)

13157/VM	
①	2x M12x30 (8.8)
②	2x M12x25 (8.8)
③	4x 12.2x27x2.5



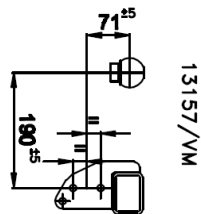
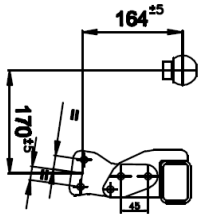
ACS 3003  
e4 00-2164  
e4 00-2608  
e4 00-2932  
ACS 6003  
e4 00-3942  
TERNA 306E4  
e4 00-3919

**X DOBLO'**  
**Y DOBLO' Natural Power**

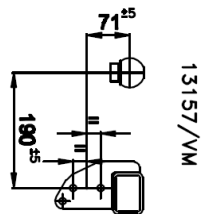


**DOBLO'**  
**Natural Power**

13157/C - 13157/F

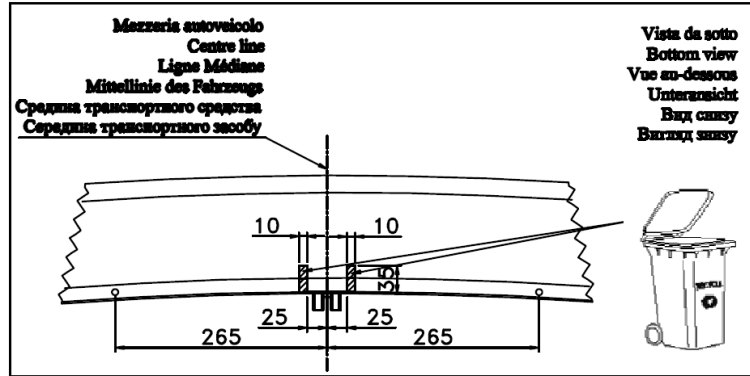


13157/VM

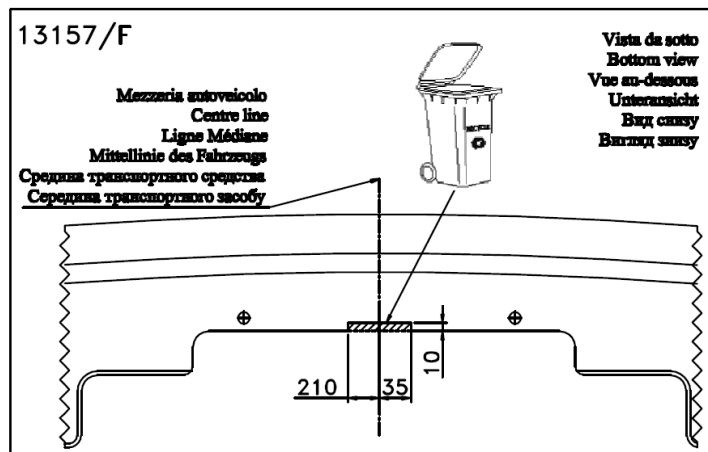
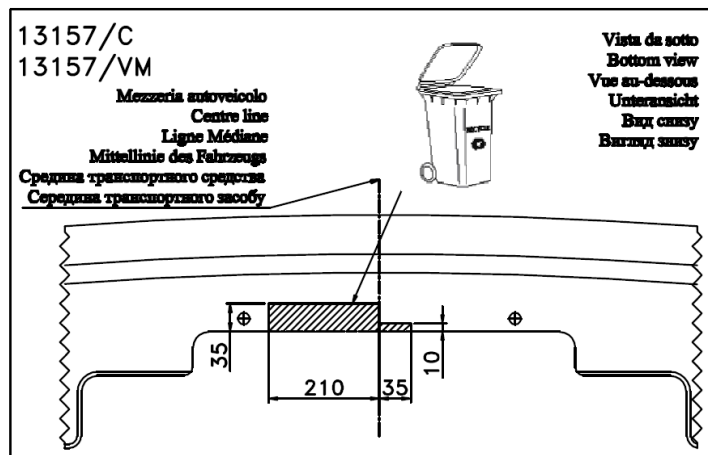


REV.00

**TAGLIO PARAURTI  
BUMPER'S CUT  
DÉCOUPE PARE-CHOCS  
AUSSCHNITT STOBSTANGE  
РАЗРЕЗ БАМПЕРА  
РОЗРІЗ БАМПЕРУ**



**solo per DOBLO' Natural Power  
for DOBLO' Natural Power only  
seulement pour DOBLO' Natural Power  
Nur für DOBLO' Natural Power  
ТОЛЬКО ДЛЯ DOBLO' Natural Power  
ТІЛЬКИ ДЛЯ DOBLO' Natural Power**



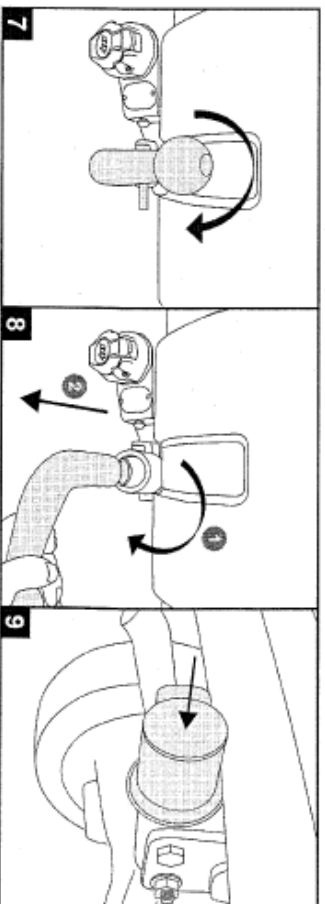
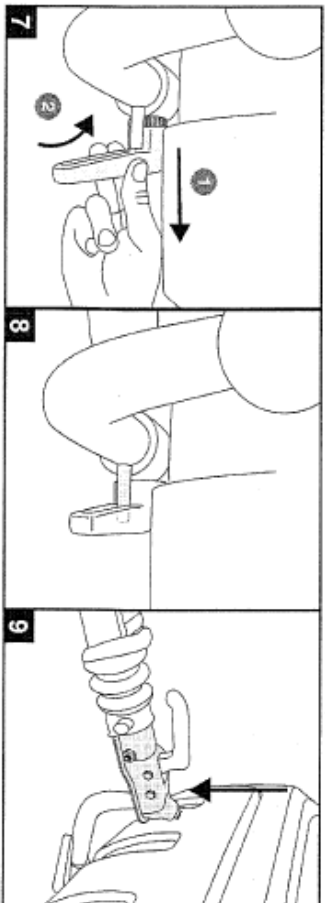
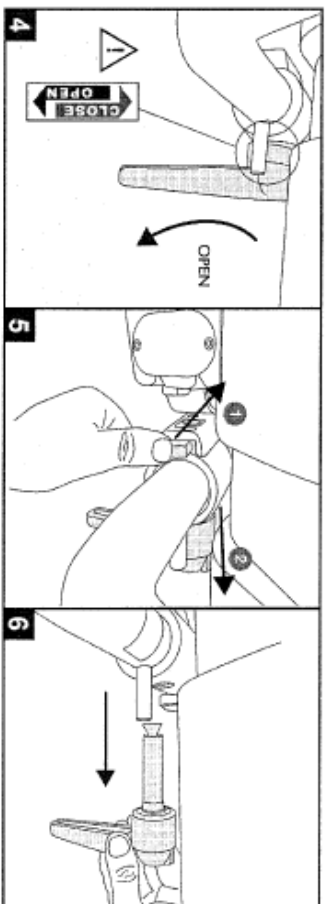
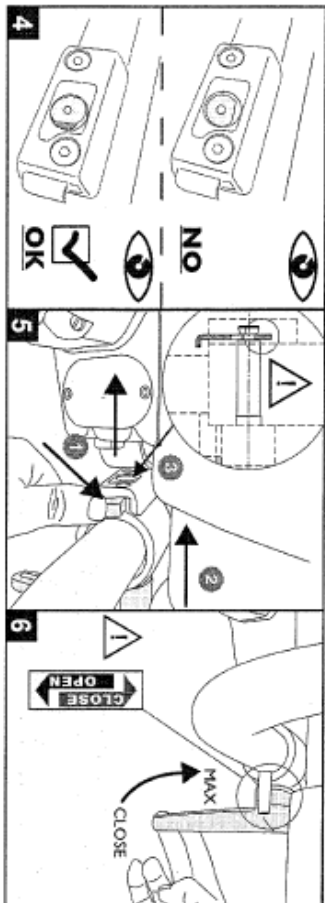
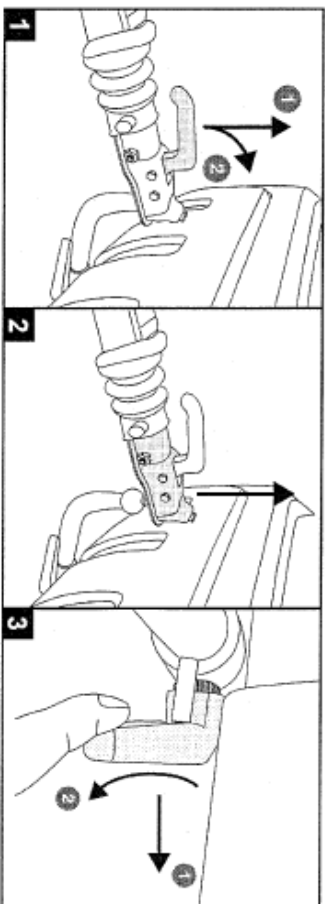
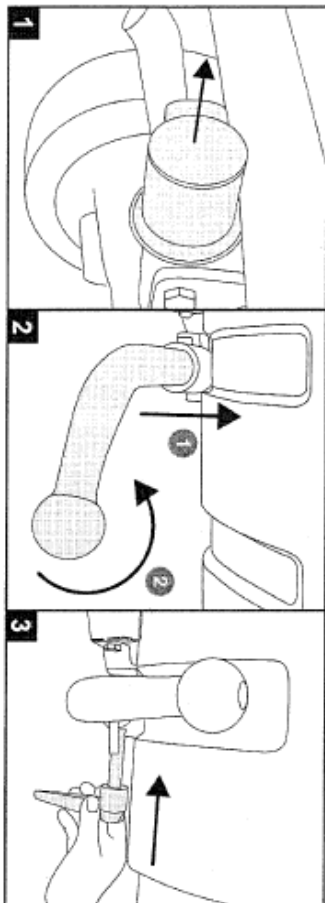
# MECCANISMO MOD. C 2007

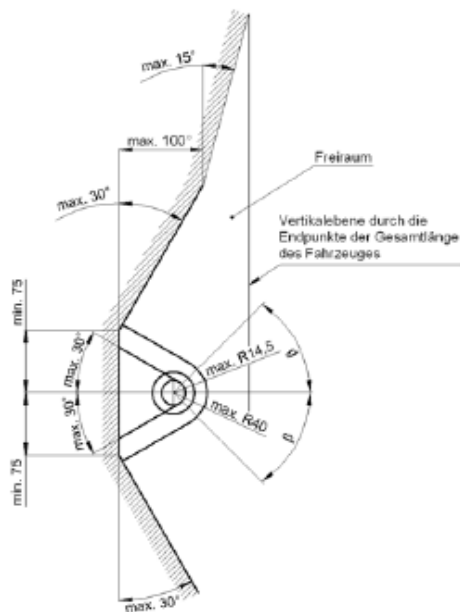
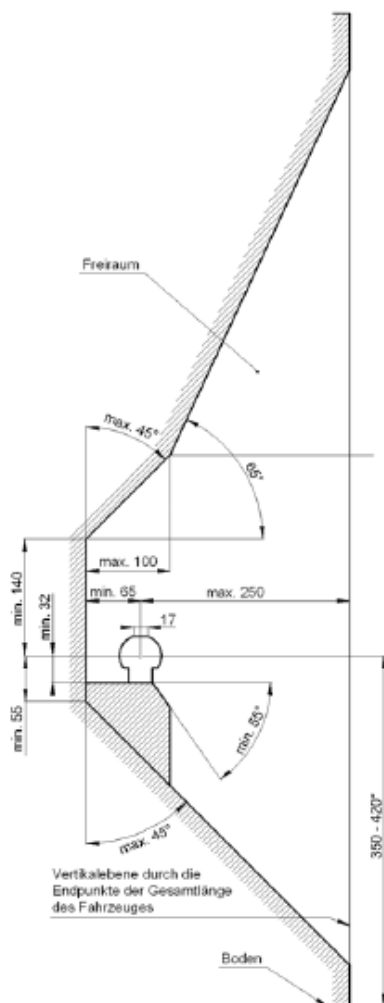


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NL - Montage	S - Montering	I - Montaggio
GB - Mounting	DK - Tilkobling	
D - Montage	FIN - Asemnus	
F - Montage	E - Montaje	

NL - Demontage	S - Demontering	I - Smontaggio
GB - Disounting	DK - Frakobling	
D - Demontage	FIN - Irrota	
F - Démontage	E - Desmontaje	





- D** Der Freiraum nach Anhang 7, Abbildung 25a und 25b der Richtlinie ECE-R 55 ist zu gewährleisten.
- CZ** Volný prostor ve smyslu Přílohy VII, obr. 25a a 25b směrnice ECE-R 55 musí být zaručen.
- DK** Det skal sikres, at der er spillerum i overensstemmelse med bilag 7, fig. 25a og 25b i henhold til direktiv ECE-R 55.
- E** Hay que garantizar el espacio libre conforme al anexo 7, fig. 25a y 25b de la directiva ECE-R 55.
- F** La zone de dégagement, selon l'annexe 7, figure 25a et 25b de la directive ECE-R 55, doit être assurée.
- FIN** Vähäksen tulee täyttää ohjeen ECE-R 55 liitteen 7 kuvissa 25a ja 25b ilmoitetut vaatimukset.
- GB** Make sure to provide clearance according to appendix 7, figures 25a and 25b of the ECE-R 55 regulations.
- GR** Πρέπει να εξασφαλίζεται ο ελεύθερος χώρος σύμφωνα με το παράρτημα 7, σχήμα 25a και 25b της κοινοτικής οδηγίας ECE-R 55.
- HU** Biztosítani kell az ECE-R 55 irányelv szerinti, 7. számú függelék, 25a. és 25b ábrákban jelölt szabad teret.
- I** Deve essere garantito lo spazio libero secondo l'allegato VII, figure 25a e 25b della normativa europea ECE 55 R-01.
- N** Det må sørges for fritt rom i samsvar med tillegg 7, figur 25a og 25b i direktiv ECE-R 55.
- NL** De vrije ruimte volgens supplement 7, afbeelding 25a en 25b van richtlijn ECE-R 55 moet gewaarborgd zijn.
- PL** Należy zapewnić wolną przestrzeń zgodnie z załącznikiem 7, rys. 25a i 25b, dyrektywy ECE-R 55.
- RUS** Оставлять свободное пространство согласно Приложению 7, рис. 25a и 25b Директивы ECE-R 55.
- S** Spelrummet enligt bilaga 7, bild 25a och 25b i riktlinje ECE-R 55, måste garanteras.

- D** \* bei zulässigem Gesamtgewicht des Fahrzeuges
- CZ** \* při celkové přípustné hmotnosti vozidla
- DK** \* ved tilladt totalvægt for køretøjet
- E** \* con peso total autorizado del vehículo
- F** \* pour poids total en charge autorisé du véhicule
- FIN** \* Ajoneuvon suurimmalla sallitulla kokonaispainolla
- GB** \* at gross vehicle weight rating
- GR** \* για το επιτρεπτό μικτό βάρος του οχήματος
- HU** \* A jármű megengedett összsúlyja esetén
- I** \* per il peso complessivo ammesso del veicolo
- N** \* ved kjøretøyets tillatte totalvekt
- NL** \* bij toegestaan totaal gewicht van het voertuig
- PL** \* przy dopuszczalnym ciężarze całkowitym pojazdu
- RUS** \* при допустимом общем весе автомобиля
- S** \* vid fordonets tillåtna totalvikt