

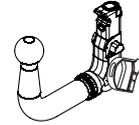
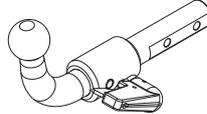
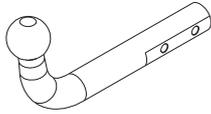
**Opel Insignia A [4x4] (2009-2017)**  
**Opel Insignia A sedan (2009-2017)**  
**Opel Astra J (2009- )**  
**Chevrolet Cruze [5P] (2009- )**  
**Chevrolet Cruze Sedan (2011- )**  
**Saab 9 5 Sedan (2011- )**  
**Saab 9 5 [4x4] (2011- )**





# 94/20/EC

Opel Insignia A [4x4] (2009-2017)  
 Opel Insignia A sedan (2009-2017)  
 Opel Astra J (2009- )  
 Chevrolet Cruze [5P] (2009- )  
 Chevrolet Cruze Sedan (2011- )  
 Saab 9 5 Sedan (2011- )  
 Saab 9 5 [4x4] (2011- )



**TowCar** enganches **aragon**

APPROVALNUMBER: e13 00-2998 D-VALUE: D 11,00 kN

TYPE: OPL035 CLASS: A50-X MAX.VERT.LOAD: S 85 kg

**TowCar** enganches **aragon**

APPROVALNUMBER: e13 00-2999 D-VALUE: D 11,00 kN

TYPE: OPL036-S CLASS: A50-X MAX.VERT.LOAD: S 85 kg

**TowCar** enganches **aragon**

APPROVALNUMBER: e13 00-2999 D-VALUE: D 11,00 kN

TYPE: OPL036-V CLASS: A50-X MAX.VERT.LOAD: S 85 kg

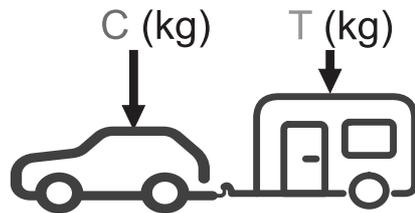
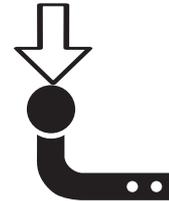
D = 11,00 kN



T = 2000 Kg



S = 85 kg

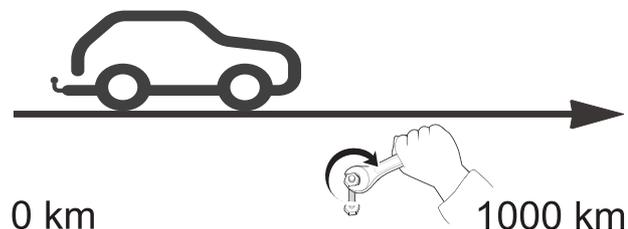


$g = 9,81 \text{ m/s}^2$

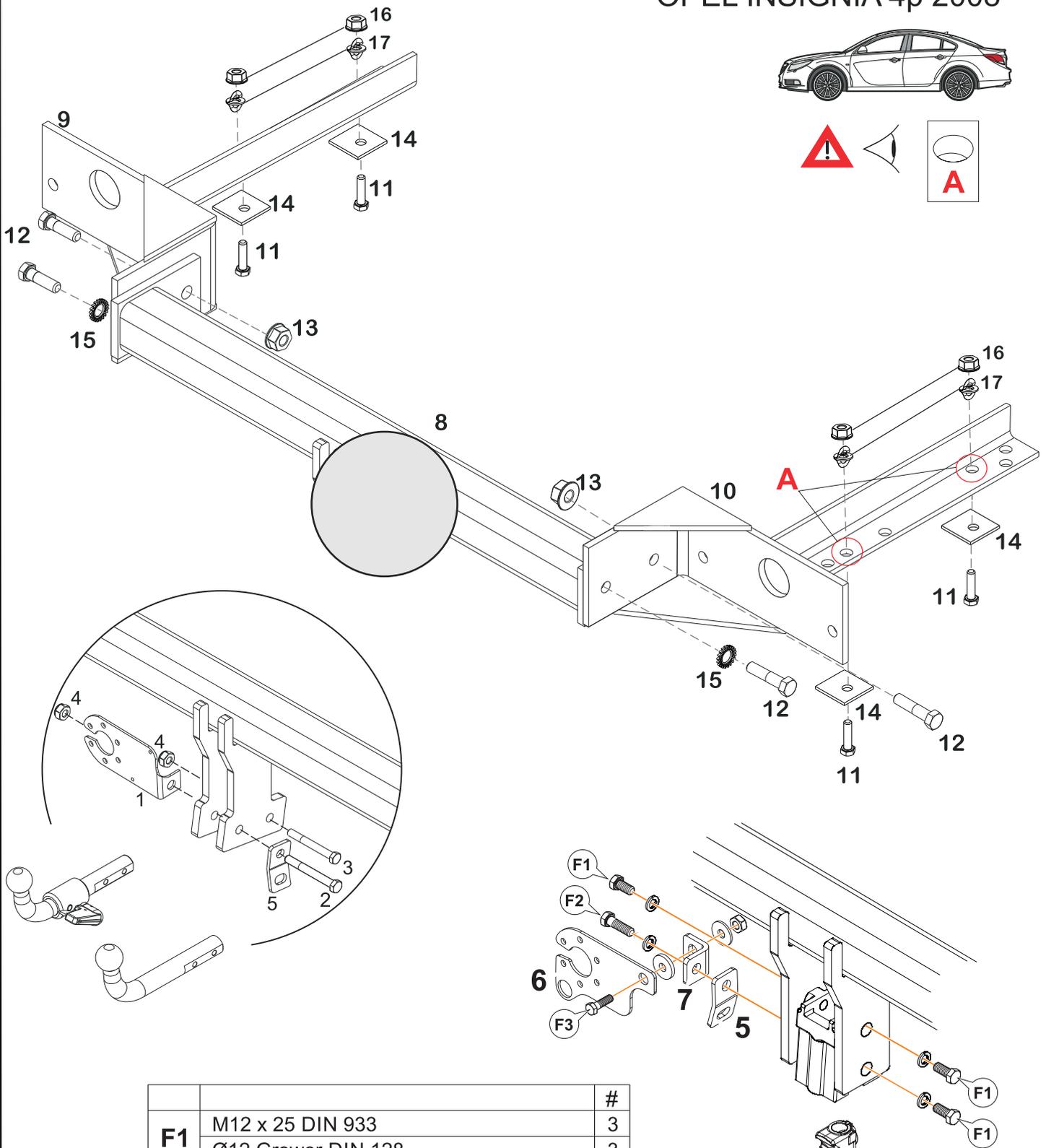
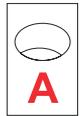
$$D \geq \frac{T \cdot C}{T + C} \cdot \frac{g}{1000} \text{ (kN)}$$

$$T \leq \frac{C \cdot D \cdot 1000}{(C \cdot g) - (1000 \cdot D)} \text{ (kg)}$$

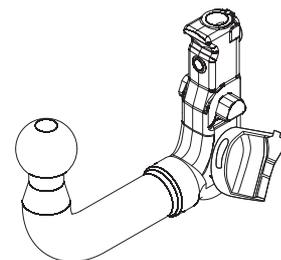
	M8	M10	M12	M14	M16
N/m	20	40	60	105	160



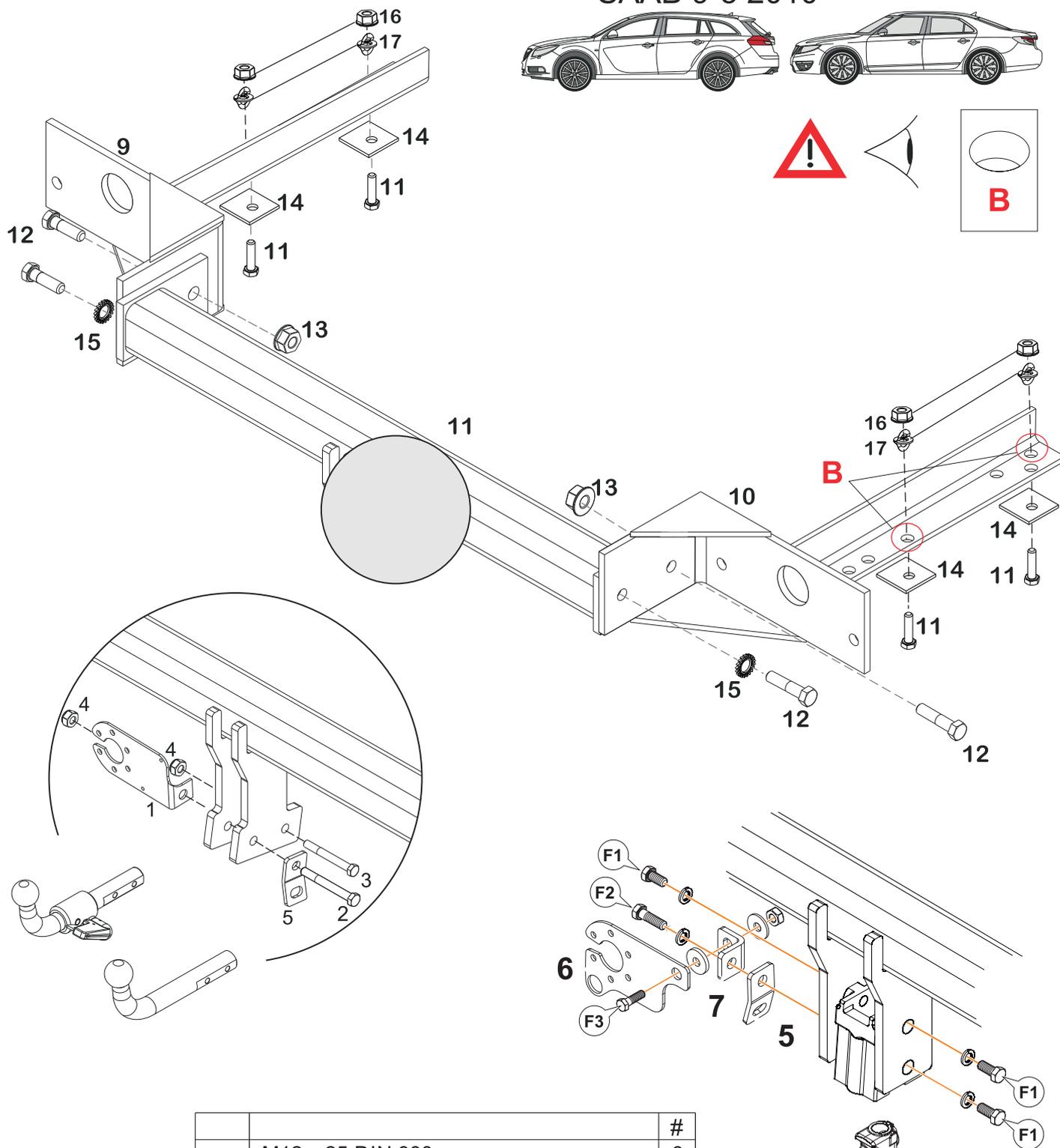
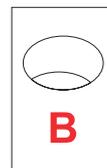
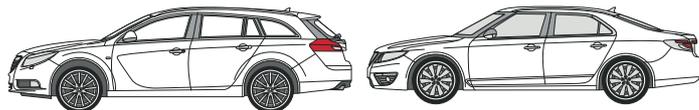
OPEL INSIGNIA 4p 2008



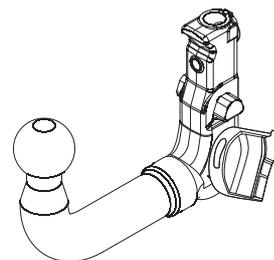
		#
<b>F1</b>	M12 x 25 DIN 933	3
	Ø12 Grower DIN 128	3
<b>F2</b>	M12 x 35 DIN 933	3
	Ø12 Grower DIN 128	1
<b>F3</b>	M10 x 30 DIN 933	1
	Ø10 Poliuretano / Nylon	1
	Ø10 DIN 9021	1
	M10 DIN 980	1



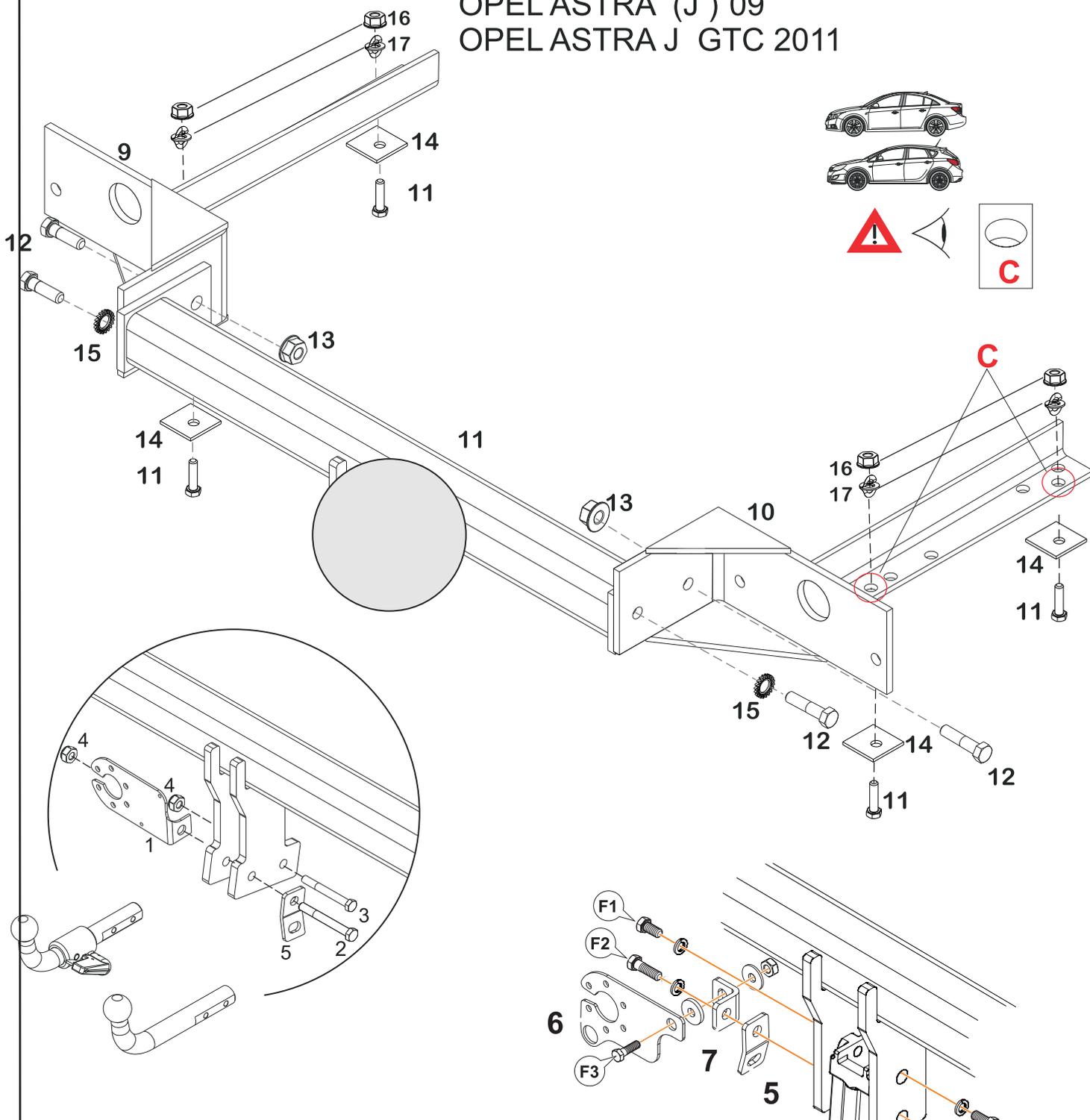
# OPEL INSIGNIA TOURER 2008 SAAB 9-5 2010



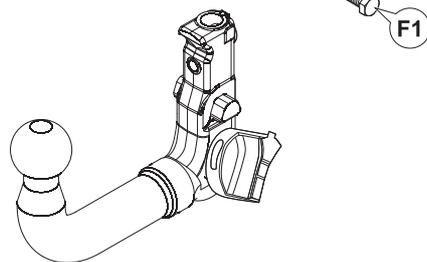
		#
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	Ø12 Grower DIN 128	3
<b>F2</b>	M12 x 35 DIN 933	3
	Ø12 Grower DIN 128	1
<b>F3</b>	M10 x 30 DIN 933	1
	Ø10 Poliuretano / Nylon	1
	Ø10 DIN 9021	1
	M10 DIN 980	1

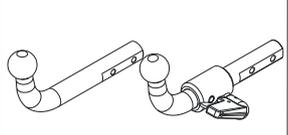
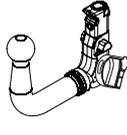
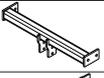


CHEVROLET CRUZE 4 y5 p 2009  
 OPEL ASTRA (J) '09  
 OPEL ASTRA J GTC 2011

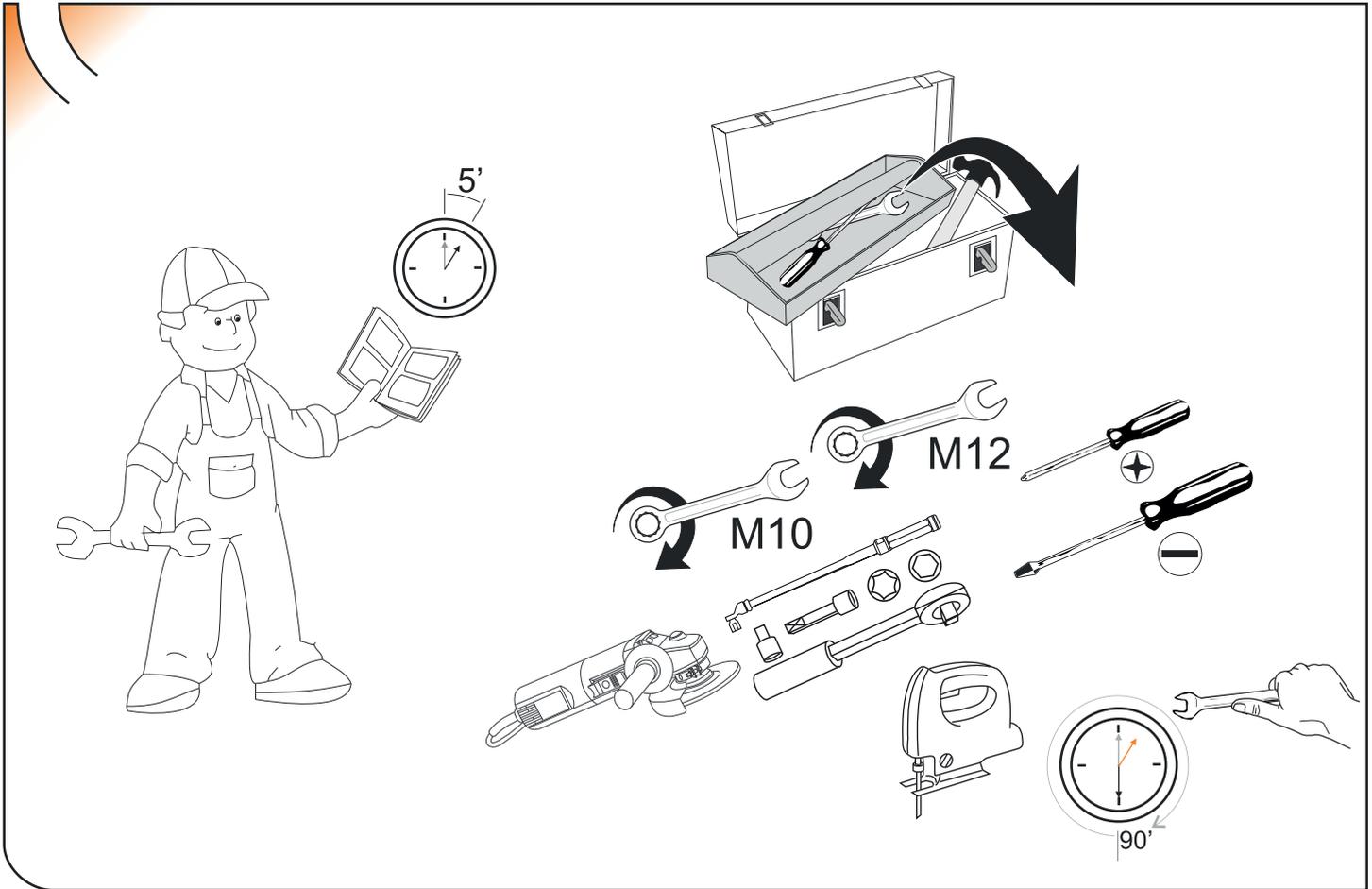


		#
<b>F1</b>	M12 x 25 DIN 933	3
	Ø12 Grower DIN 128	3
<b>F2</b>	M12 x 35 DIN 933	3
	Ø12 Grower DIN 128	1
<b>F3</b>	M10 x 30 DIN 933	1
	Ø10 Poliuretano / Nylon	1
	Ø10 DIN 9021	1
	M10 DIN 980	1

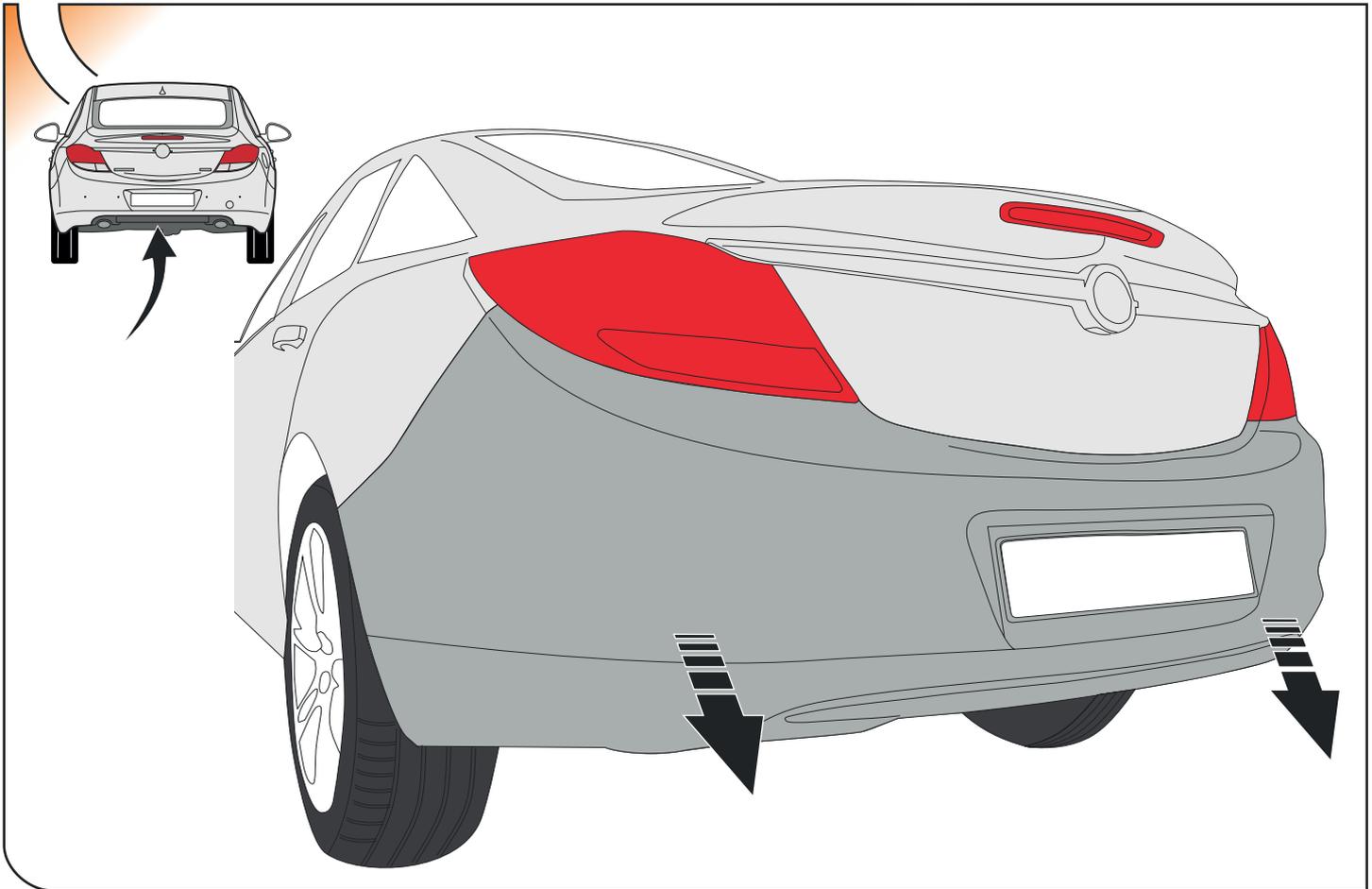


				
1		AEV0005	1	
2		M10 x 70 DIN 931(8.8)	1	
3		M10 x 65 DIN 931(8.8)	1	
4		M10 DIN 980	2	
5		AEV0006	1	
6		AEV0009		1
7		AEV0008		1
8		C4521A	1	
9		C4521AV62	1	
10		C4521AV61	1	
11		M10 x 40 DIN 933 (8.8)	4	
12		M12 x 40 DIN 933 (8.8)	4	
13		M12 DIN 6293	4	
14		50x30	4	
15		M12 DIN 128A	2	
16		M10 DIN 6293	8	
17		ARANDELAS ADHESIVAS	6	
18		AEV0004	1	

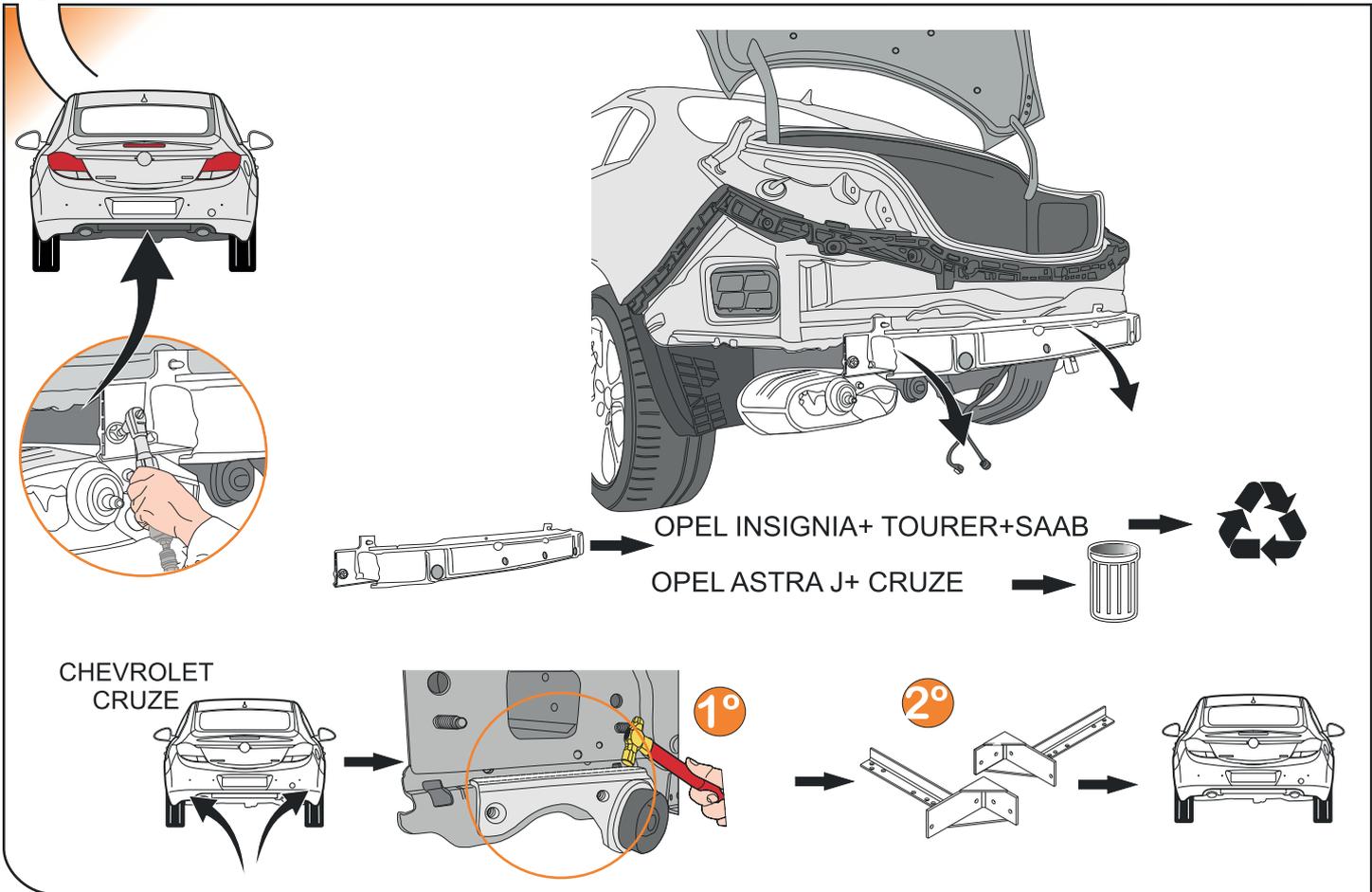
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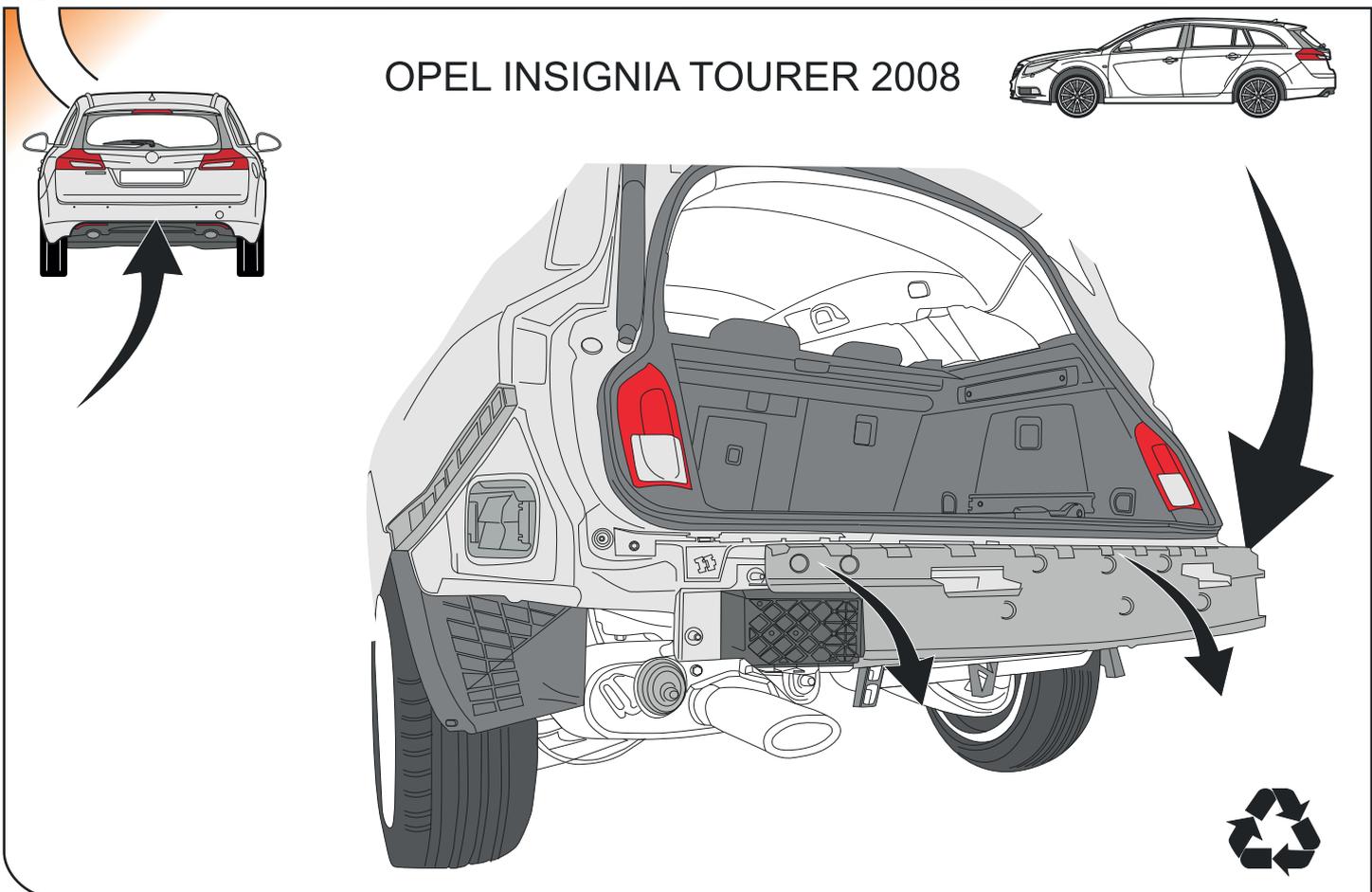
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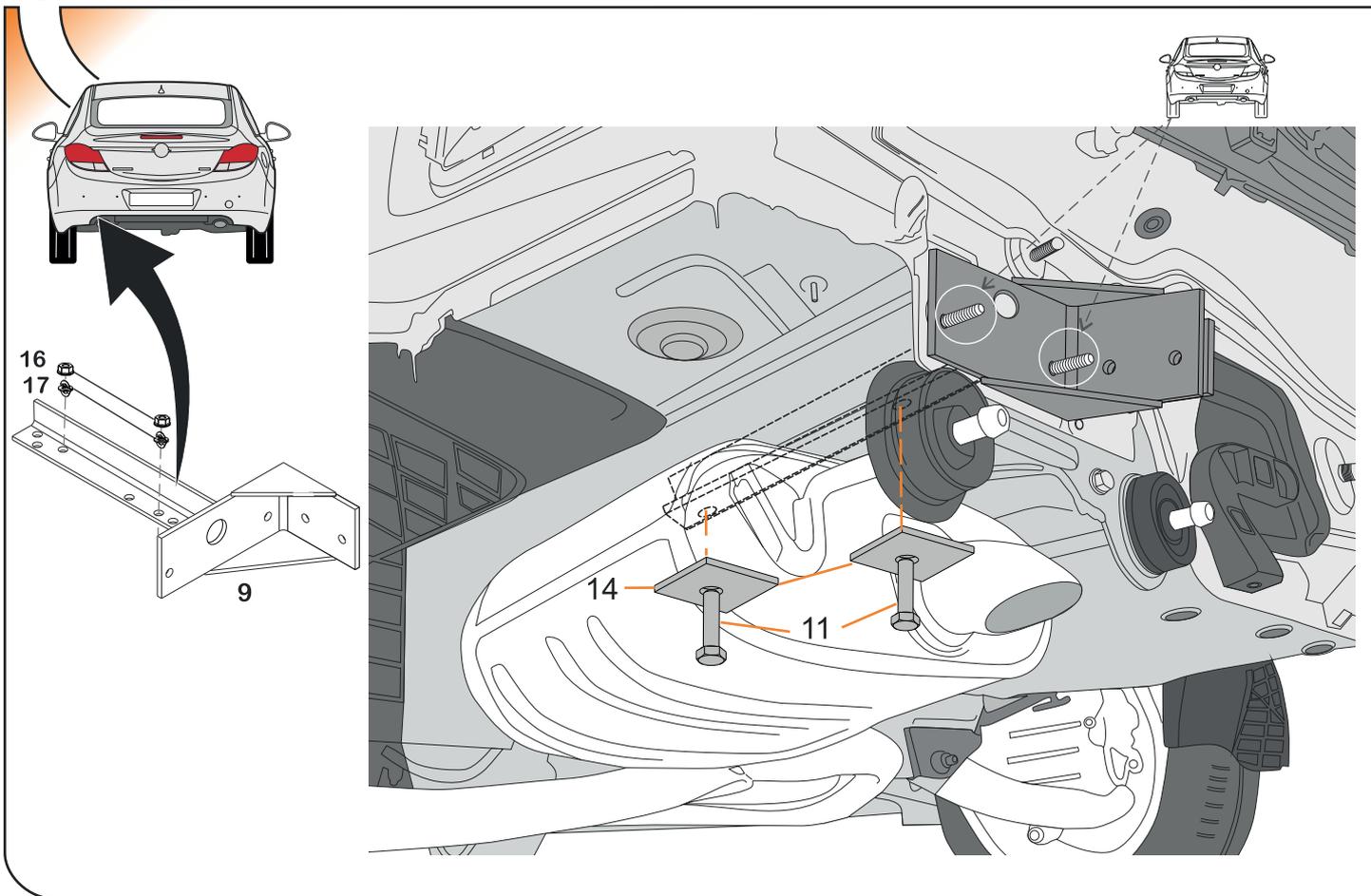
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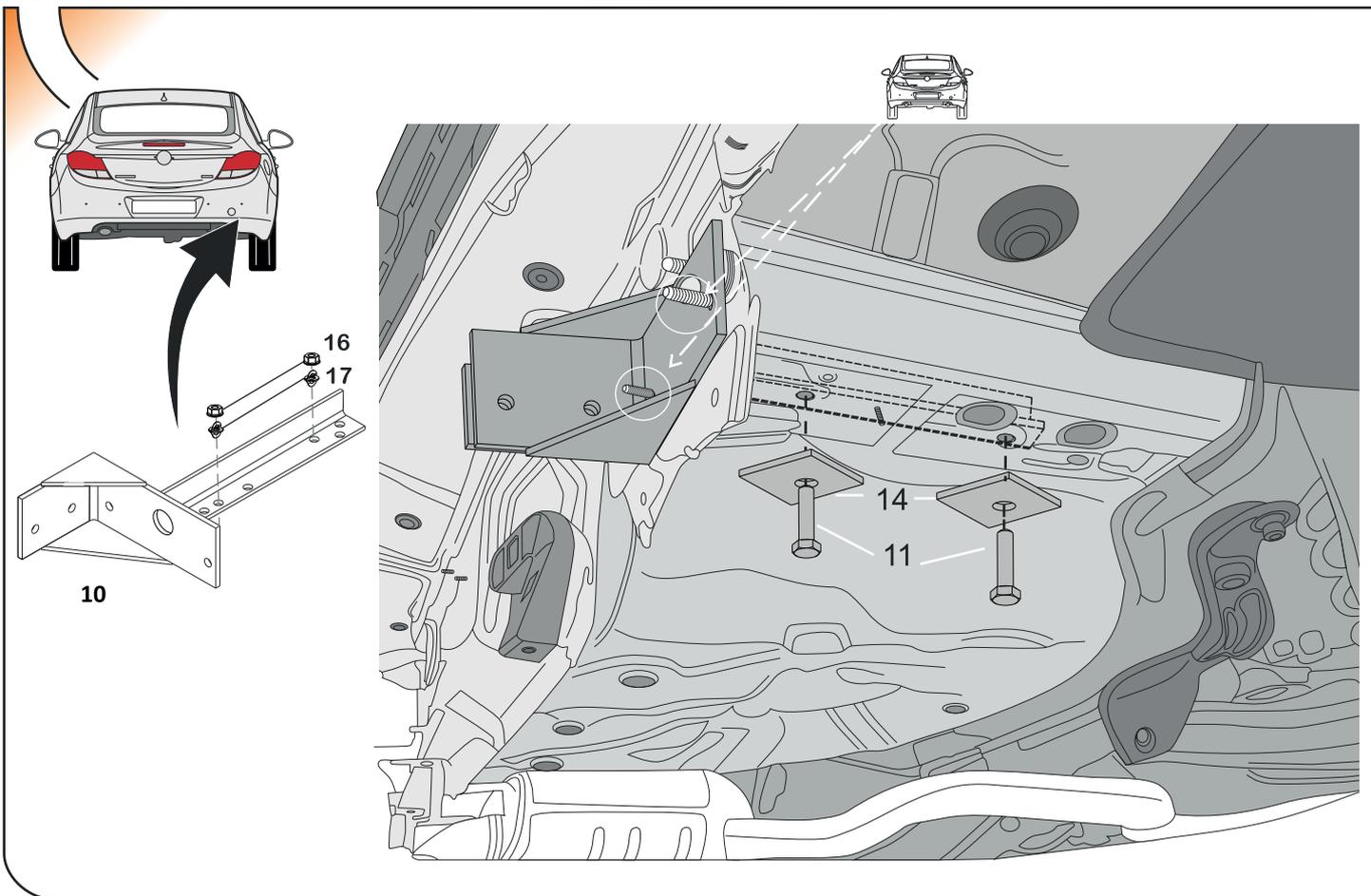
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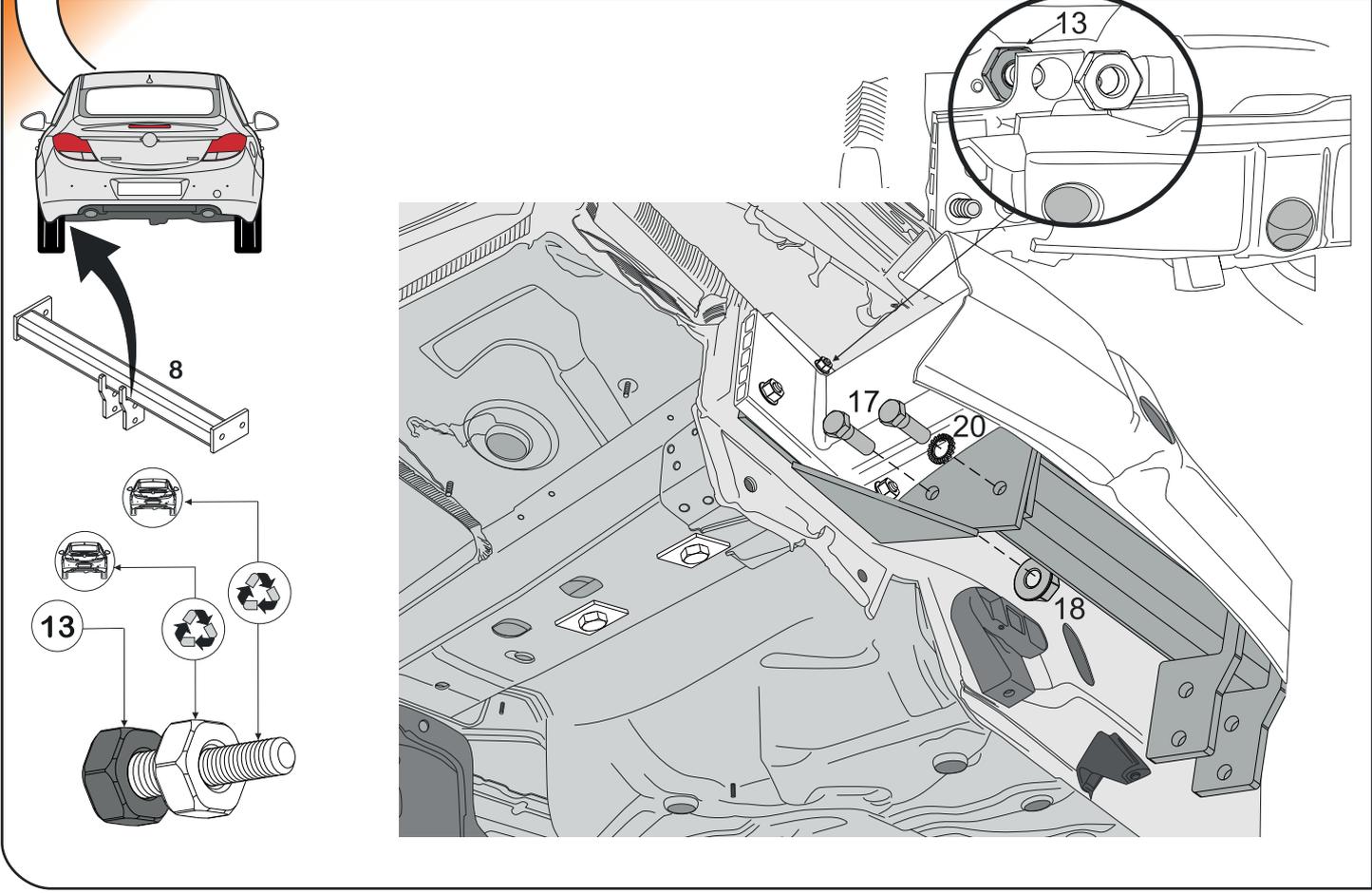
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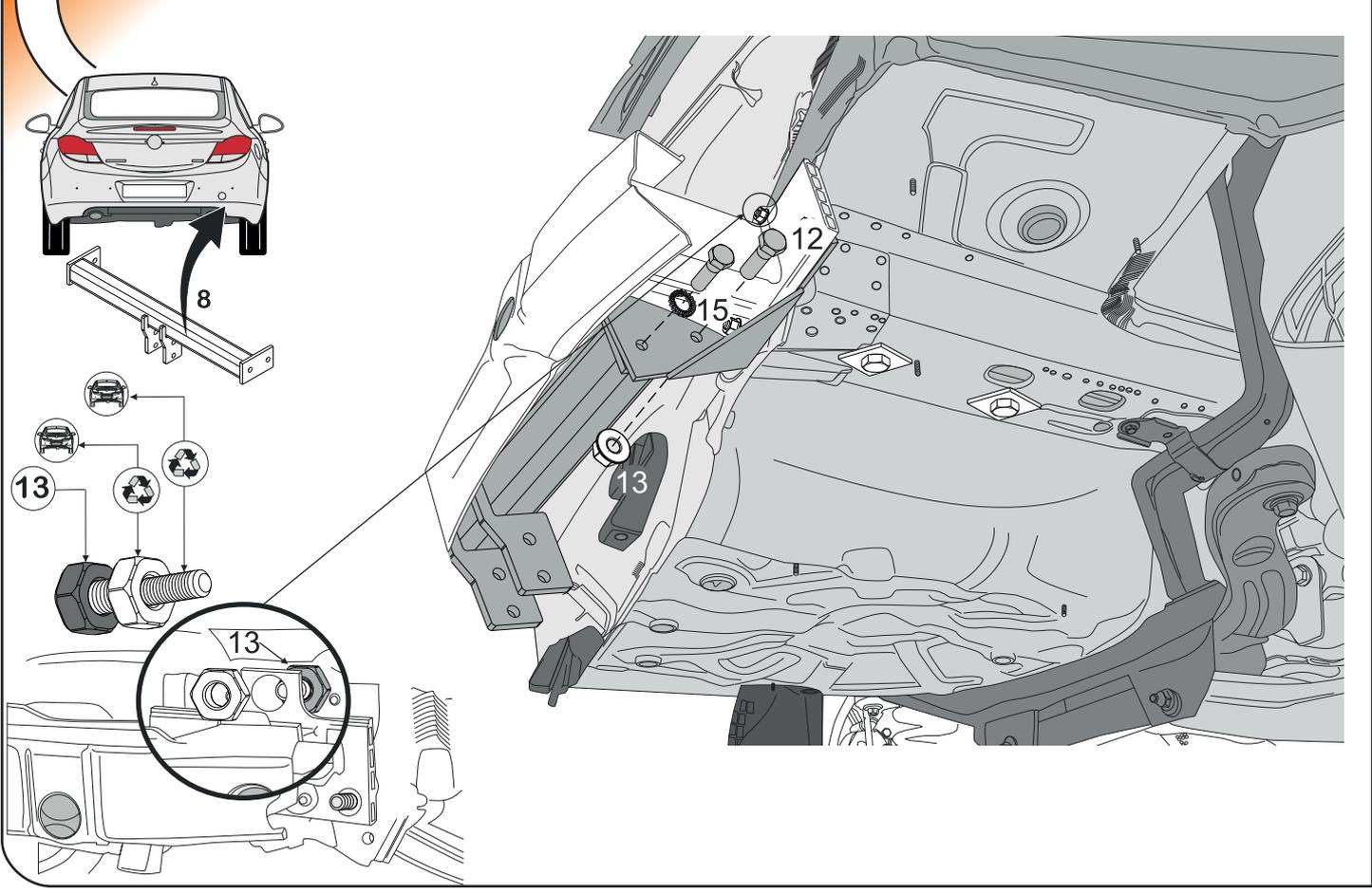
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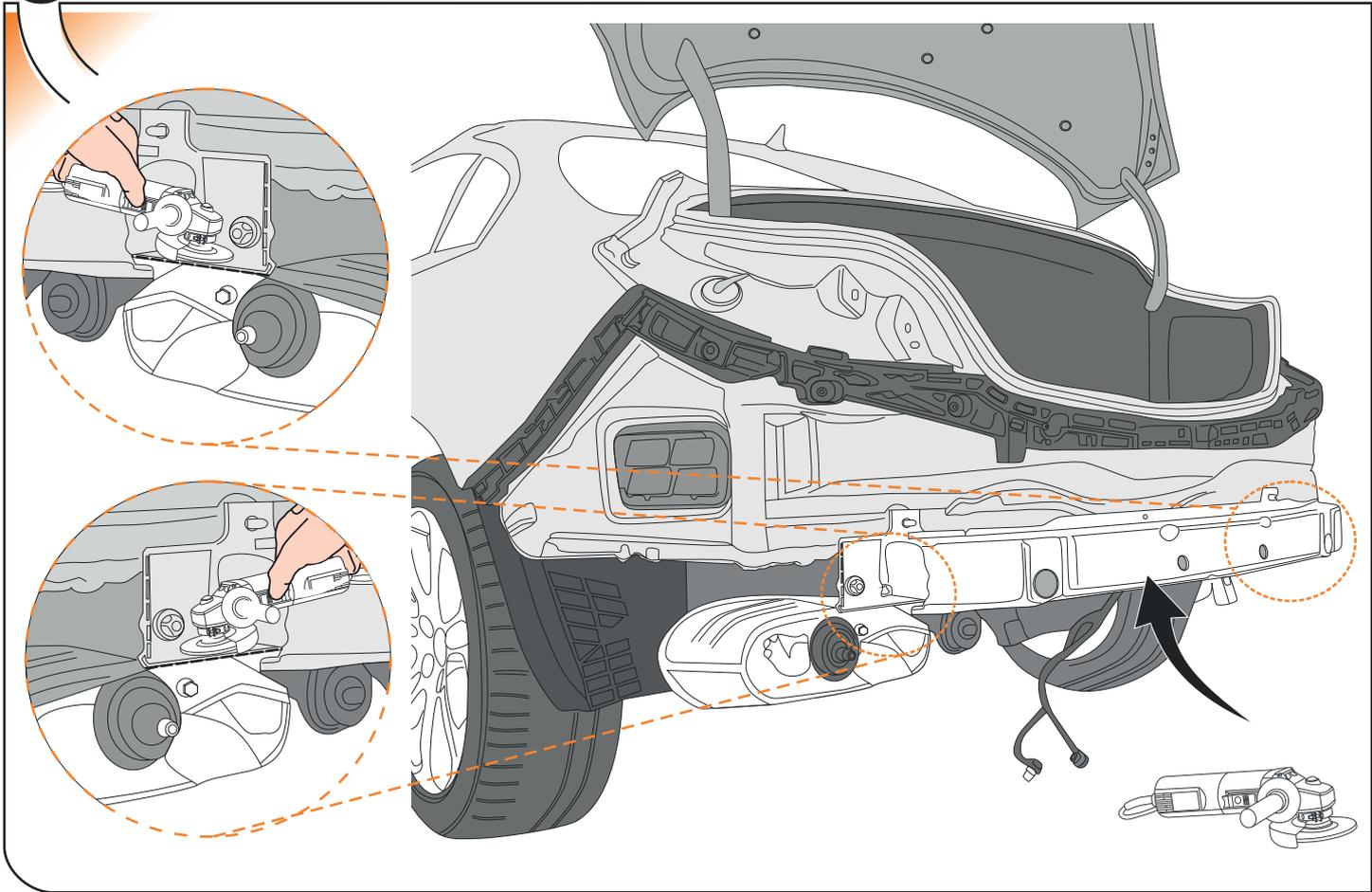
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8

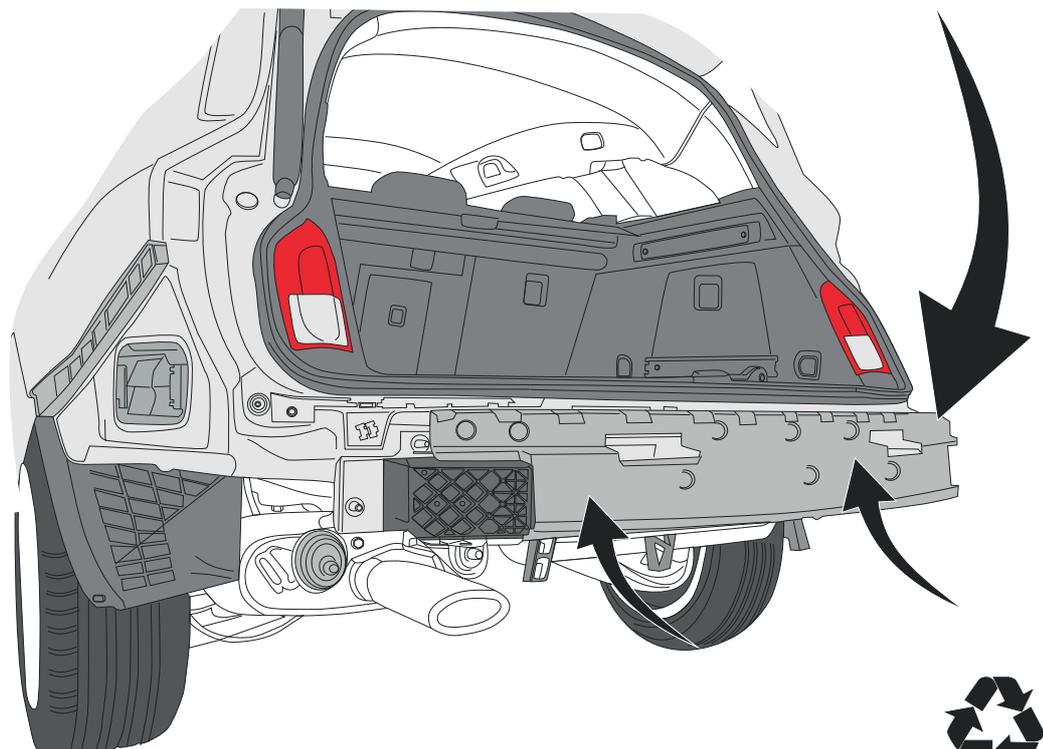
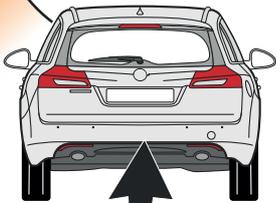


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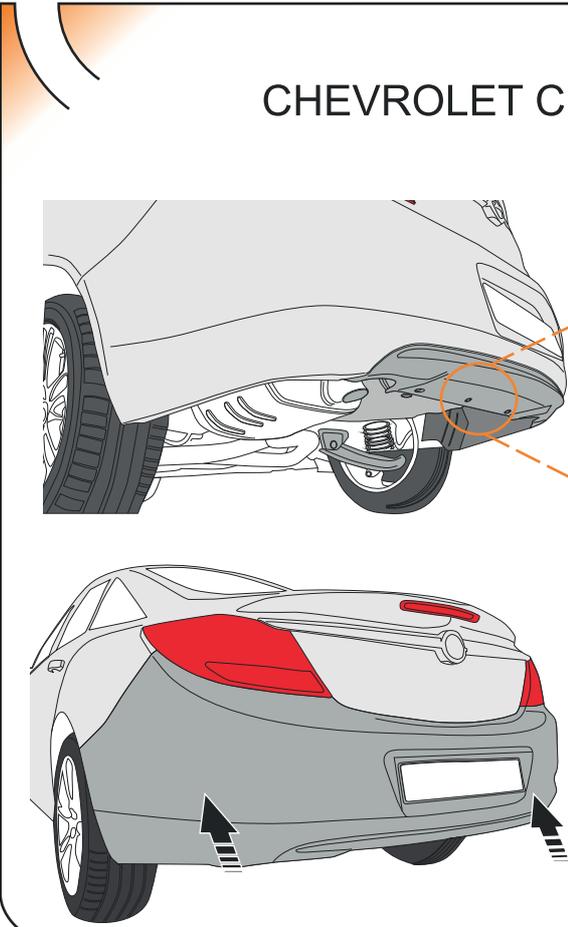
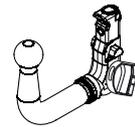
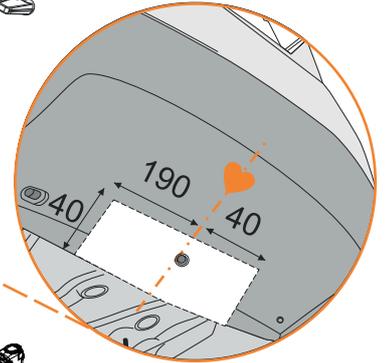
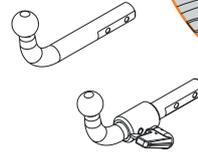
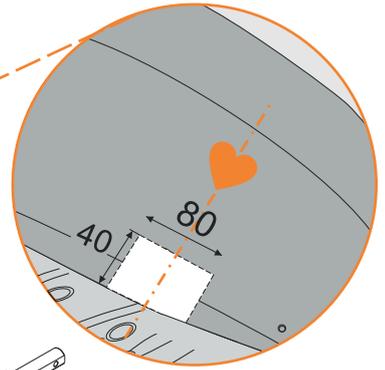
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OPEL INSIGNIA TOURER 2008



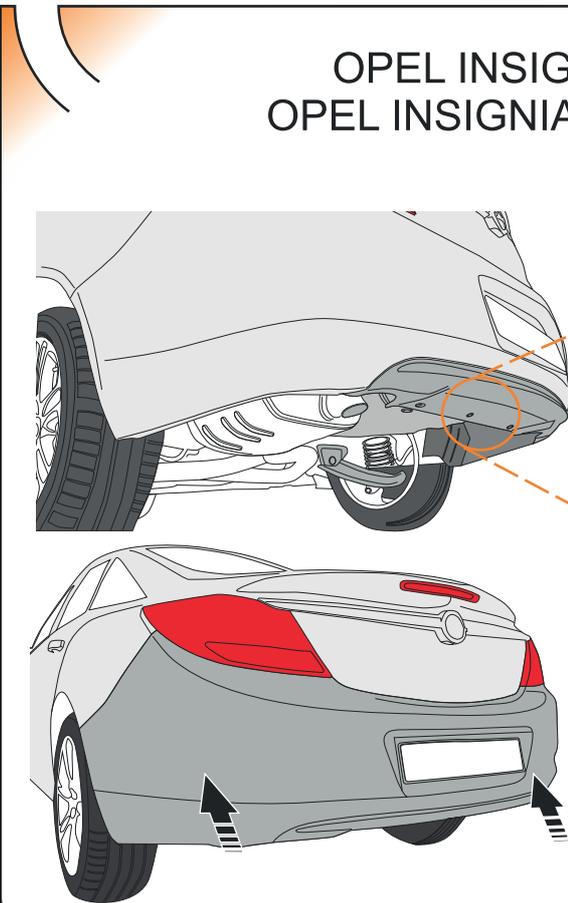
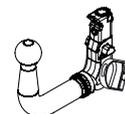
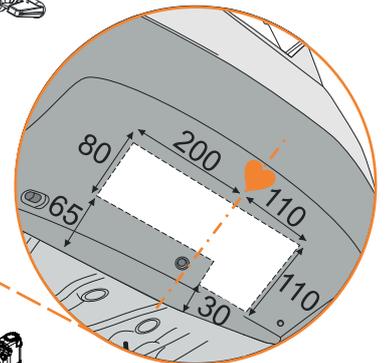
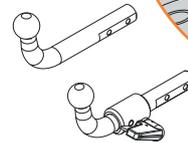
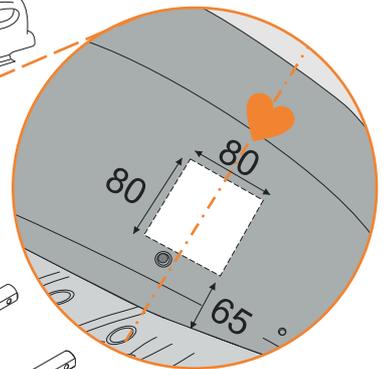
**11**

CHEVROLET CRUZE 2009



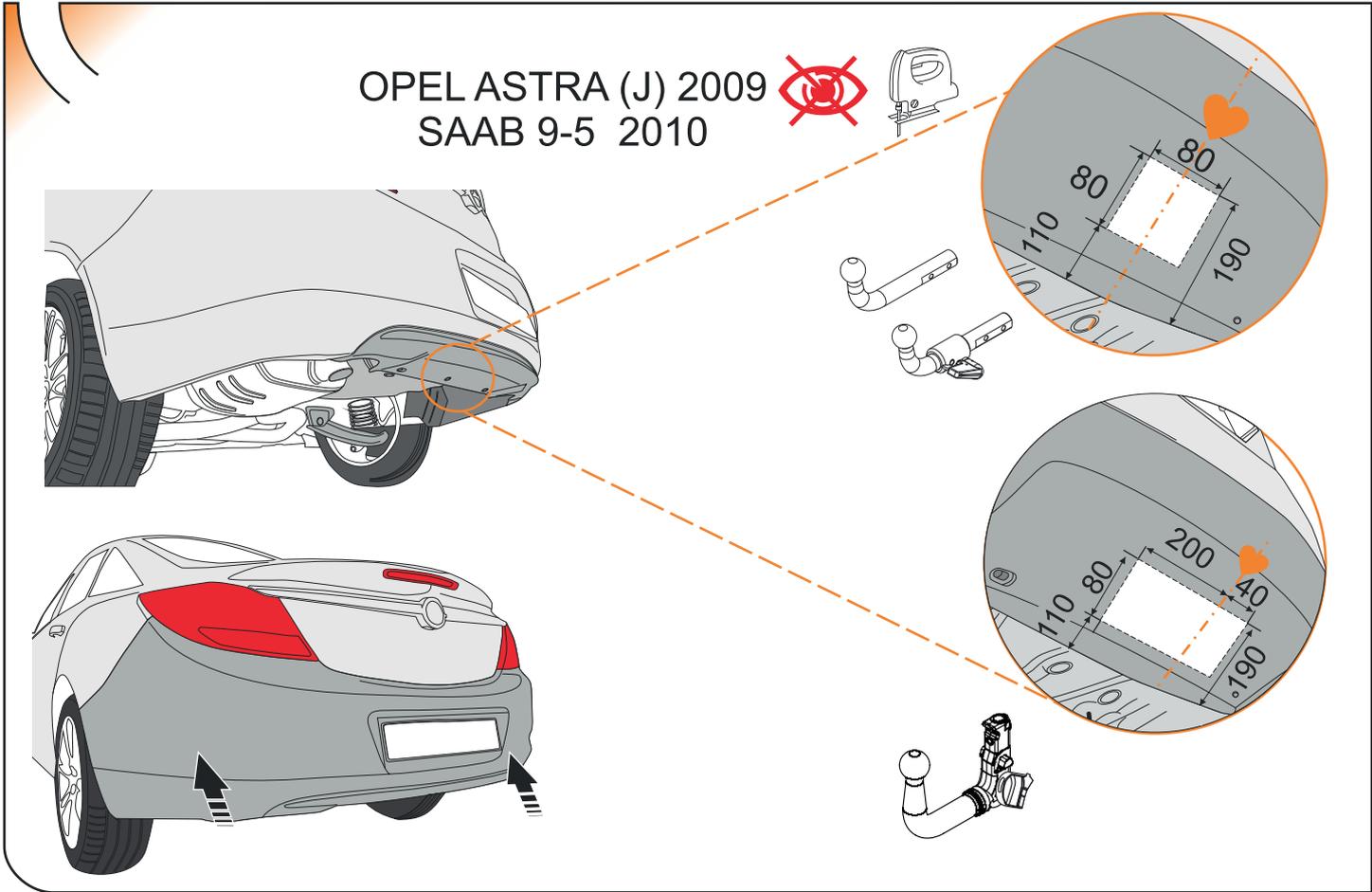
**12**

OPEL INSIGNIA 4p 2008  
 OPEL INSIGNIA TOURER 2008



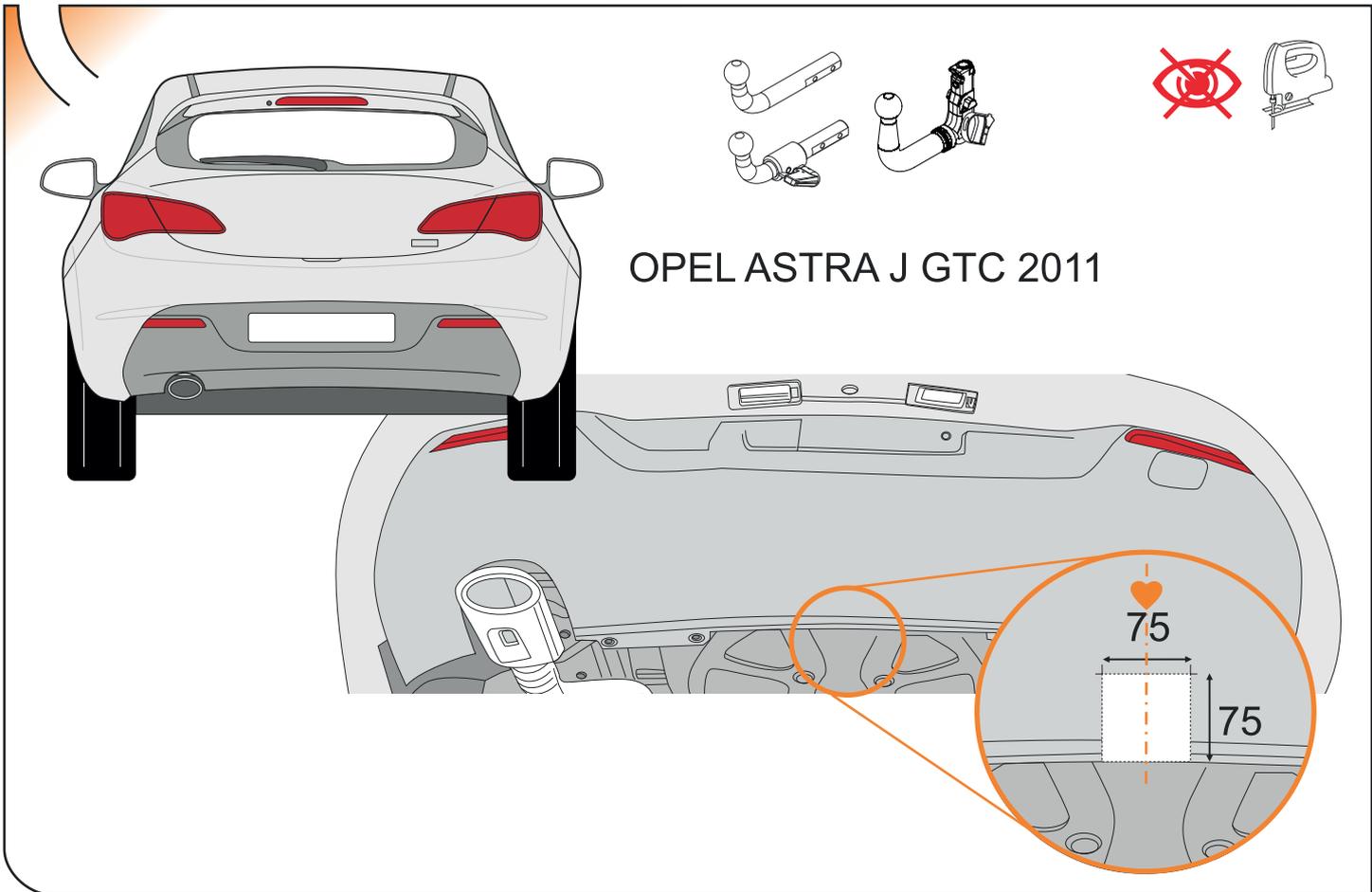
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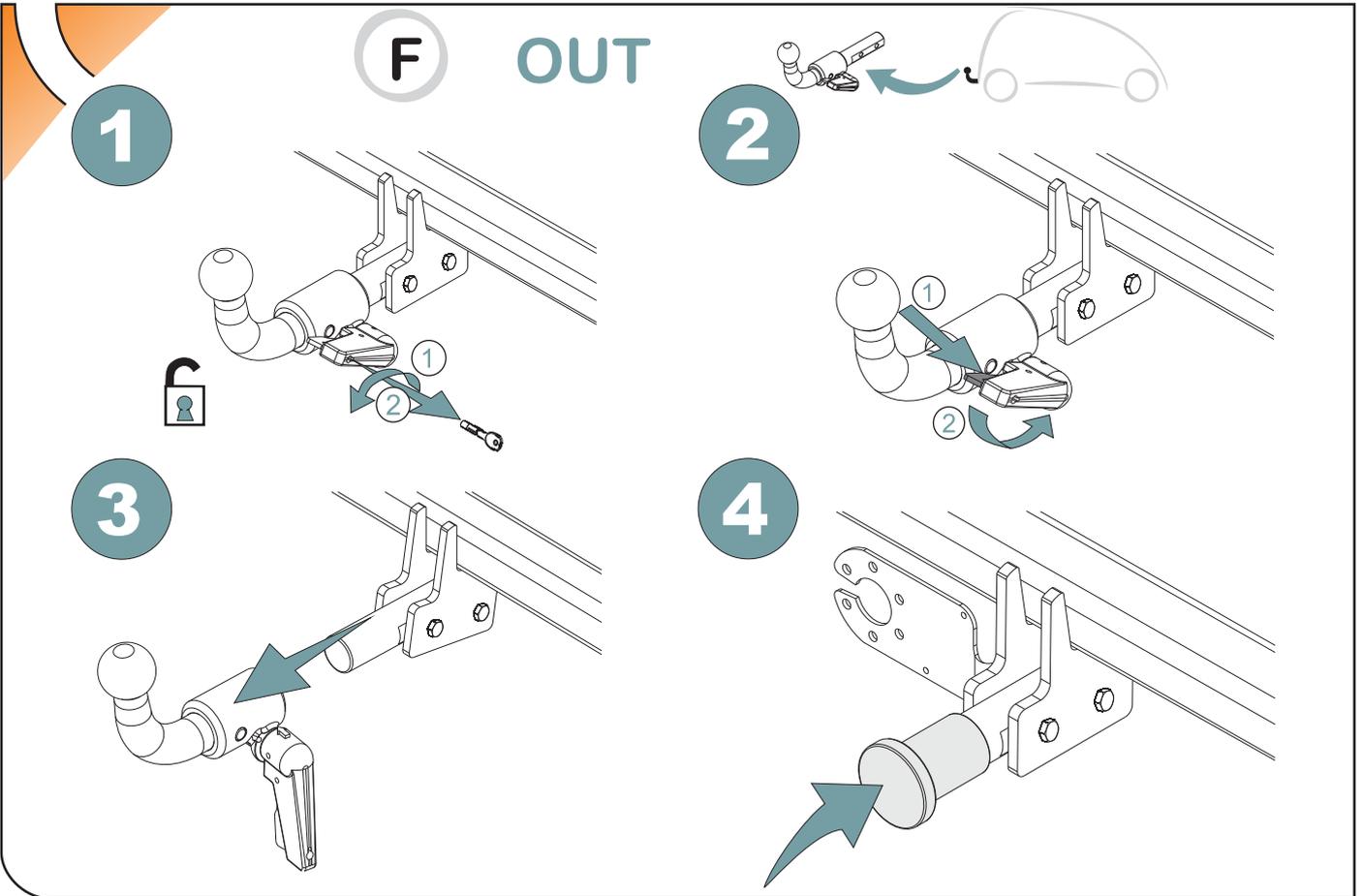
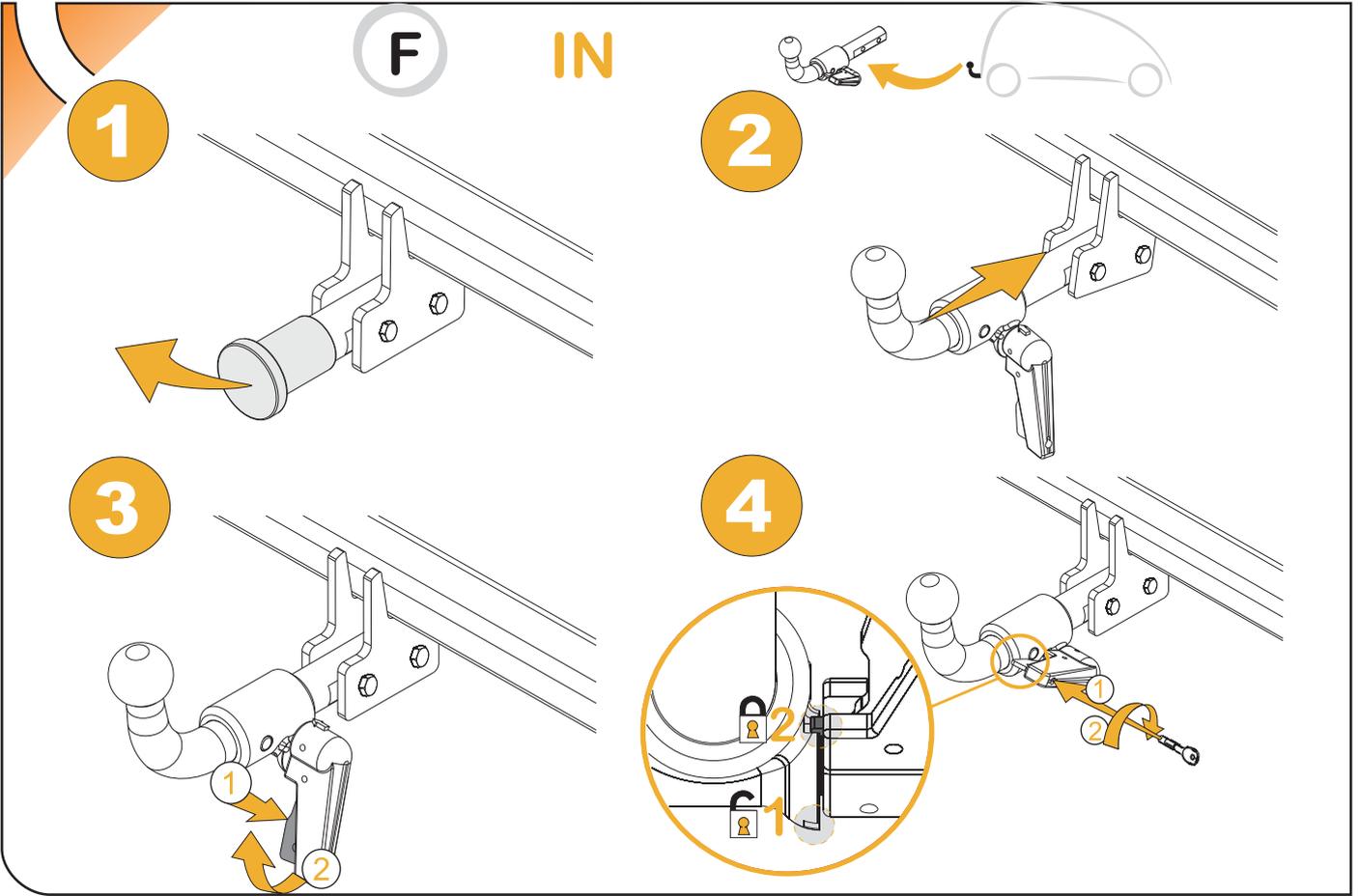
OPEL ASTRA (J) 2009   
 SAAB 9-5 2010 

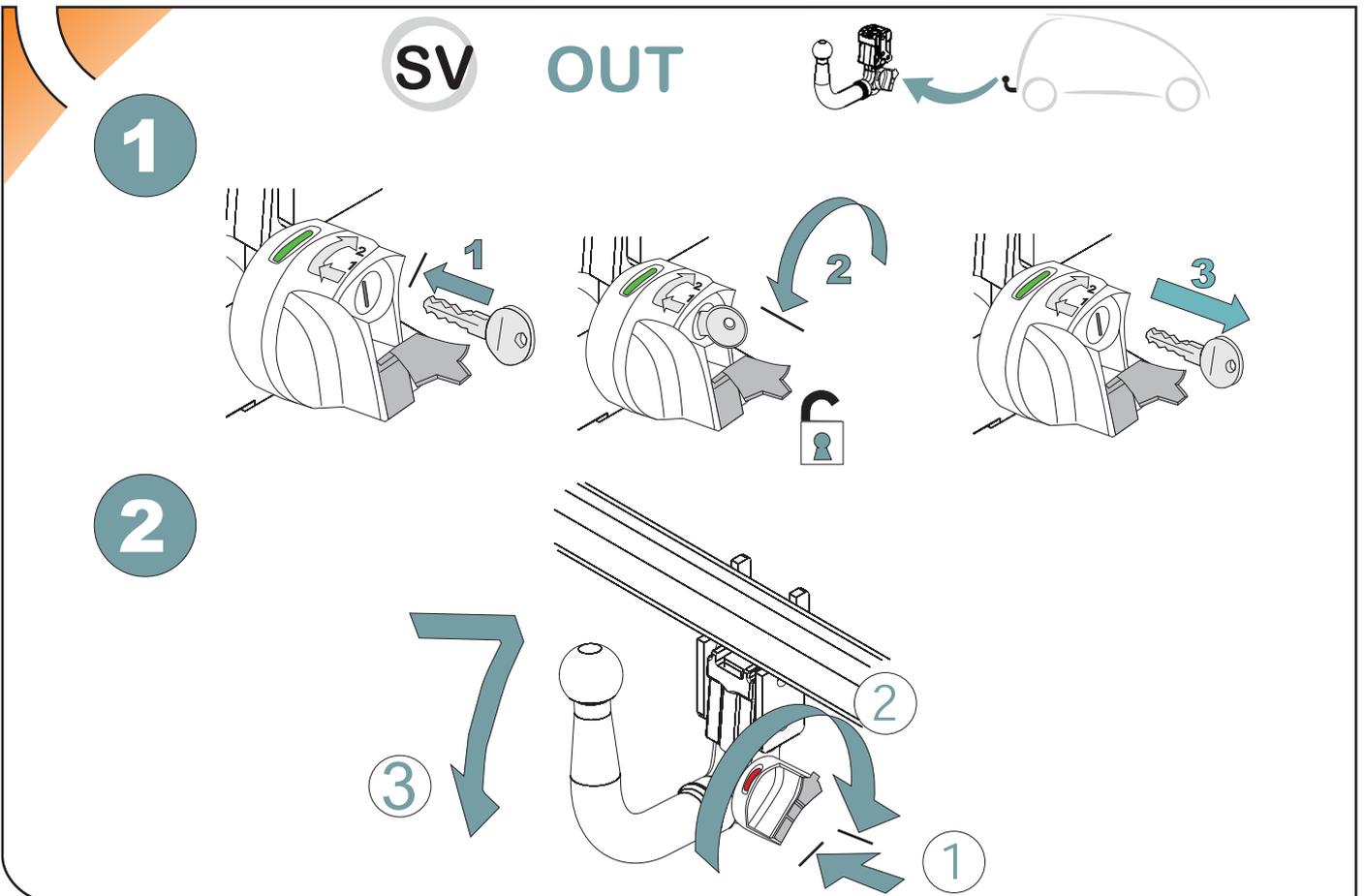
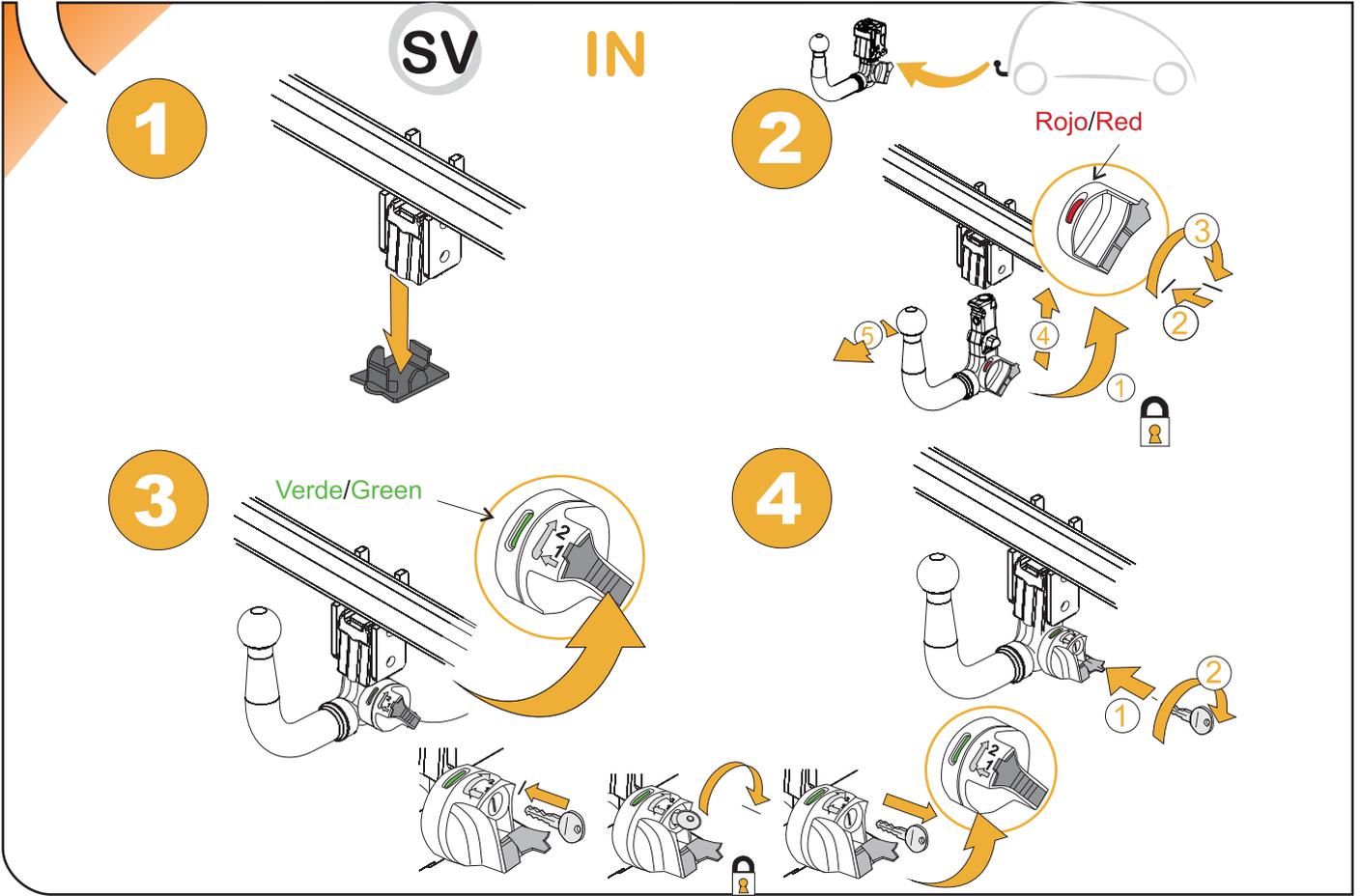


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OPEL ASTRA J GTC 2011







## ANEXO III

### CERTIFICADO DE TALLER

D. \_\_\_\_\_, expresamente autorizado por la \_\_\_\_\_  
domiciliada en \_\_\_\_\_, teléfono \_\_\_\_\_, dedicada  
a la actividad de \_\_\_\_\_ n° de Registro Industrial \_\_\_\_\_ y n° de registro  
especial \_\_\_\_\_.

#### CERTIFICA

Que la mencionada empresa ha realizado la/s Reforma/s y asume la responsabilidad de la ejecución,  
sobre el vehículo marca....., tipo.....  
variante..... denominación comercial .....  
matrícula ..... y n° de bastidor ....., de acuerdo con:

- La normativa vigente en materia de reformas de vehículos.
- Las normas del fabricante del vehículo aplicables a la/s reforma/s llevadas a cabo en dicho vehículo.
- El proyecto descriptivo de la/s reforma/s, adjunto al expediente.

#### OBSERVACIONES: (2)

Tipificada/s con el código de reforma/s.....  
Reforma consiste en:

COLOCACION DE ENGANCHE \_\_\_\_\_

n° de identificación / marca de homologación

Type :

Fecha:

Firma y sello:

Fdo:

(1) En el caso de que la reforma sea efectuada por el fabricante se indicará N/A.

(2) Se debe especificar en este apartado OBSERVACIONES, la identificación de los equipos o sistemas modificados, garantizando que se cumple lo previsto en el artículo 6 del reglamento general de vehículos y, en su caso, en el artículo 5 del R. D. 1457/1986 de 10 de enero, por el que se regula la actividad industrial en talleres de vehículos automóviles, de equipos y sus componentes, modificado por 455/2010 de 16 de abril, por el que se modifica el R. D. 1457/1986 de 10 de enero por el que se regulan la actividad industrial y la prestación.

ES

1



2

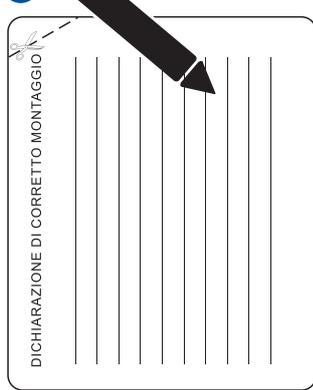


3



IT

1



2

