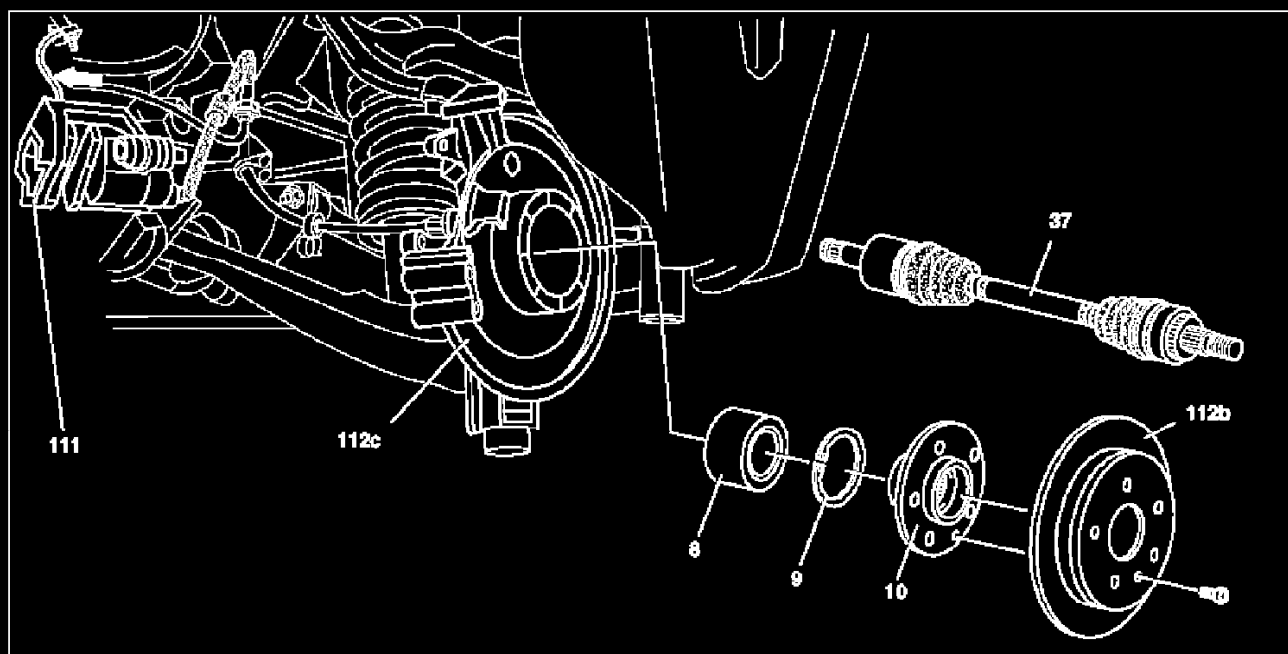


Wheel Bearing: Service and Repair

AR35.20-P-0130GH Remove/Install Rear Axle Shaft Flange and Angular Ball Bearing

Remove/install rear axle shaft flange and angular ball bearing



P35.20-0281-09

Shown on vehicle with floating caliper

8 Double-row angular ball bearing

9 Circlip

10 Rear axle shaft flange


37 Remove/install








111 Brake caliper


















112b Brake disk

112c Brake cover

Modification notes

13.4.00	Modified removal tool 202 589 04 43 00	The 2nd version of the removal tool 202 589 04 43 00 is fitted with a pressure screw with shear pin for the hydraulic auxiliary press. This makes its handling even safer. The pressure screw is available as a replacement part by quoting the special tool number. New special tool  pressure screw 202 589 04 43 11, see step 5.	AR35.20-P-0130-01B
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 	Remove/Install		
1	Remove rear axle shaft (37)		AR35.30-P-0620GH
2	Remove rear axle brake caliper (111)	<p>Model Series 163.136 Model 163.113 up to VIN A289564, X754619 Model 163.154 up to VIN A289564 Model 163.154/ 157 </p> <p>Model 163.128/172/174/175 Model 163.113 as of VIN A289565, X754620 Model 163.154 as of VIN A289565 Model 163.157 except </p> <p> Hang floating brake caliper/fixed brake caliper to one side using hook to prevent damage to brake hose.  Leave brake hose connected.</p>	<p>AR42.10-P-0080GH</p> <p>AR42.10-P-0080GI</p>
3	Remove brake disc (112b)	<p>Model Series 163.136 Model 163.113 up to VIN A289564, X754619 Model 163.154 up to VIN A289564 Model 163.154/ 157 </p>	AR42.10-P-0220GH

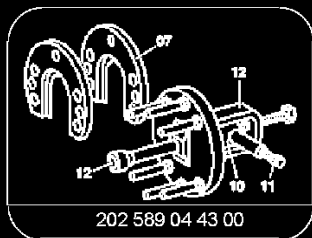
		Model 163.128/172/174/175 Model 163.113 as of VIN A289565, X754620 Model 163.154 as of VIN A289565 Model 163.157 except 	AR42.10-P-0220GI
4	Remove parking brake shoes		AR42.20-P-0530GH
5	Pull out rear axle shaft flange (10) (wheel carrier installed)	 Hydraulic extraction tool: Tighten pressure screw of hydraulic auxiliary press to max. 40 Nm only, otherwise extraction tool and hydraulic auxiliary press could be destroyed!  Extractor tool  Pressure screw  Extraction and insertion tool  If the rear axle shaft flange is too tight to be extracted with a force of 40 Nm, the wheel carrier must be removed and a stationary press used: Remove wheel carrier: Pull out jammed rear axle shaft flange (wheel carrier removed)  Extractor tool  Extraction and insertion tool	AR35.20-P-0130-01B *202589044300 *202589044311 *140589084300 AR35.20-P-0115GH AR35.20-P-0130-04GH *202589044300 *140589084300
6	Remove locking ring (9)	 Installation: Ensure that retaining ring is firmly seated in wheel carrier.  Pliers for locking ring, inside (dia. 85 - 165 mm)	*WH58.30-Z-1011-02A
7.1	Remove brake caliper dust shield (112c)	 If necessary. 	*BA42.10-P-1003-06A
8	Pull double-row angular ball bearing (8) out of wheel carrier	 Removal and installation tool	AR35.20-P-0130-03A *140589084300
9	Pulling inner bearing race off rear axle shaft flange	 Thrust piece  Puller  Collet chuck	AR35.20-P-0130-02A *124589023400 *001589503300 *140589013400
	Inspect		
10	Check lateral and radial runout of rear axle shaft flange (10)	Permissible lateral runout Permitted vertical runout If test values are exceeded: Replace rear axle shaft flange	*BE35.20-P-1001-01A *BE35.20-P-1002-01A
11	Install in the reverse order		

Test values for rear axle shaft flange

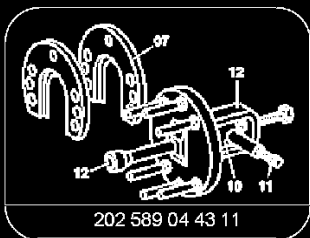
Number	Designation	Model Series 163
BE35.20-P-1001-01A	Permissible lateral runout of rear axle shaft flange when removed mm	0,03
BE35.20-P-1002-01A	Permissible radial runout of rear axle shaft flange at hub centering when removed mm	0,03

 Brake discs, brake caliper dust shield

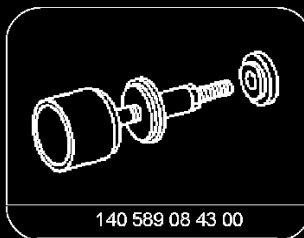
Number	Designation	Model Series 163
BA42.10-P-1003-06A	Bolt, brake caliper dust shield to steering knuckle/ wheel carrier	M6 NM 10
		M8 NM -



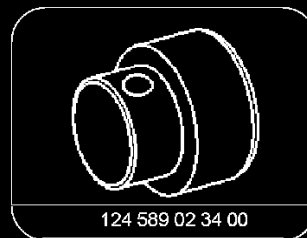
Extraction tool



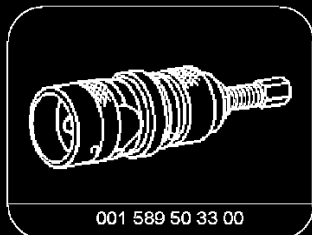
Thrust bolt



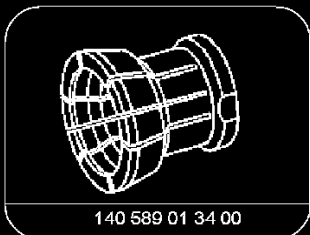
Extraction and installation tool



Thrust piece



Puller



Clamping pliers

Commercially available tools

Number	Designation	Make (e. g.)	Order number
WH58.30-Z-1011-02A	Pliers for circlip, inner (Ø 85 - 165 mm)	Hazet Güldenwerther Bahnhofstraße 25-28 D-42857 Remscheid	1846a-4