

1.12 Removing and installing master cylinder

⇒ "1.12.1 Removing and installing clutch master cylinder, Leon 2013 ►", page 49

⇒ "1.12.2 Removing and installing clutch master cylinder Ibiza 2018 ►; Arona 2018 ►", page 49

1.12.1 Removing and installing clutch master cylinder, Leon 2013 ►

Removing



Note

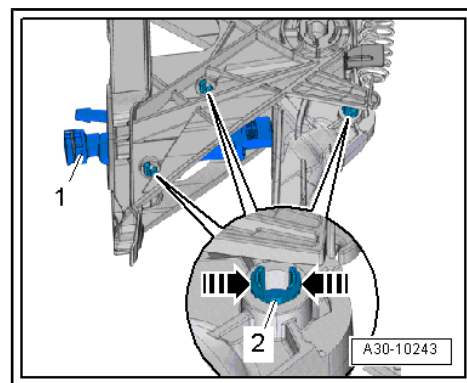
- ◆ Carry out Guided fault finding using ⇒ *Vehicle diagnostic tester before you renew the clutch master cylinder with an assumed fault.*
- ◆ *When working in the footwell, protect the floor covering with cloths from escaping brake fluid.*
- Remove mounting bracket ⇒ [page 42](#) .
- Remove clutch position sender - G476- ⇒ [page 28](#) .
- Release catches -arrows- and press out pivot pin -2-.
- Detach clutch master cylinder -1-.

Installing

Carry out installation in the reverse sequence, noting the following:

Renew pivot pin after removal.

- Install mounting bracket ⇒ [page 42](#) .
- Install clutch position sender - G476- ⇒ [page 28](#) .



1.12.2 Removing and installing clutch master cylinder Ibiza 2018 ►; Arona 2018 ►



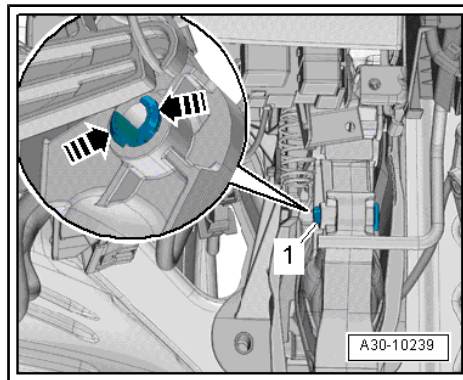
Note

- ◆ Carry out Guided fault finding using ⇒ *Vehicle diagnostic tester before you renew the clutch master cylinder with an assumed fault.*
- ◆ *When working in the footwell, protect the floor covering with cloths from escaping brake fluid.*

Removing

- Remove mounting bracket with master cylinder ⇒ [page 46](#) .

- Compress fasteners on pivot pin -1- for plunger/clutch master cylinder -arrows- (shown in illustration with mounting bracket installed).

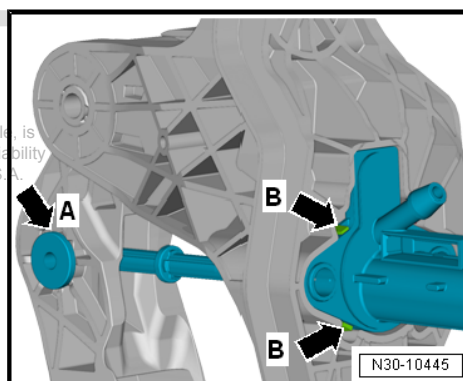


- Pull pivot pin for plunger/clutch master cylinder in direction of -arrow A- out of clutch pedal.

Clutch master cylinder is engaged in mounting bracket by means of catches -arrows B-.

- Release locking tabs -arrows B- from clutch master cylinder, and forcefully pull clutch master cylinder out of mounting bracket.

Illustration shows only 2 of 4 locking tabs -arrows B-.



Installing

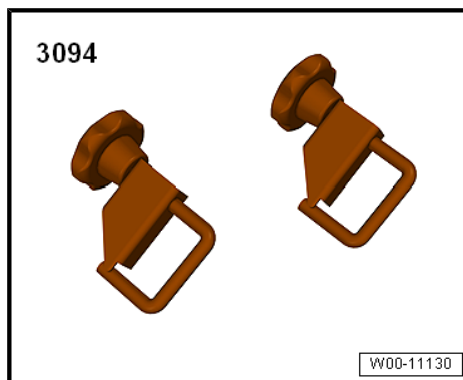
Carry out installation in the reverse sequence, noting the following.

- Renew pivot pin -arrow A- after removing.
- Pivot pin -arrow A- must audibly engage in clutch pedal.
- Ensure proper engagement by carefully pulling pivot pin.
- Engage clutch master cylinder in mounting bracket -arrows B-.
- Ensure proper engagement by carefully pulling clutch master cylinder.
- Install mounting bracket ➔ [page 46](#) .

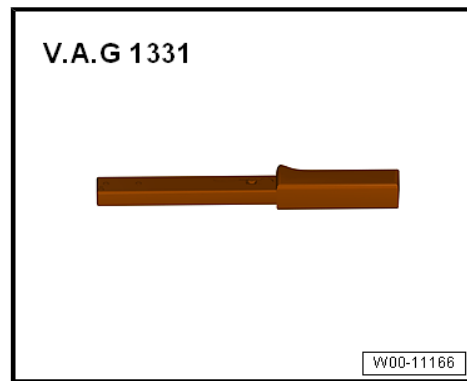
1.13 Removing and installing clutch slave cylinder

Special tools and workshop equipment required

- ♦ Hose clamps, up to Ø 25 mm - 3094-



- ◆ Torque wrench - V.A.G 1331-



Removing



Note

- ◆ *Before replacing the clutch slave cylinder due a suspected defect, you must first use guided fault finding ⇒ Vehicle diagnostic tester.*
- ◆ *As soon as the coupling slave cylinder is dismantled from the gearbox together with the connected hose line, the coupling pedal can no longer be engaged. Otherwise, the piston will be pressed out of the slave cylinder and be destroyed.*

- Remove complete air filter housing if it prevents access to the clutch slave cylinder.

Vehicles with diesel engine

- ⇒ Rep. gr. 23 ; Air filter; Removing and installing air filter housing

Vehicles with petrol engine

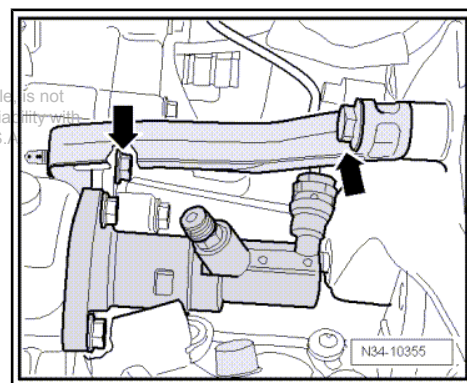
- ⇒ Rep. gr. 24 ; Air filter; Removing and installing air filter housing

Battery in engine compartment

- Remove battery tray ⇒ Electrical system; Rep. gr. 27 ; Battery; Removing and installing battery tray .

Continued for all vehicles

- Then remove gearbox support -arrows-.



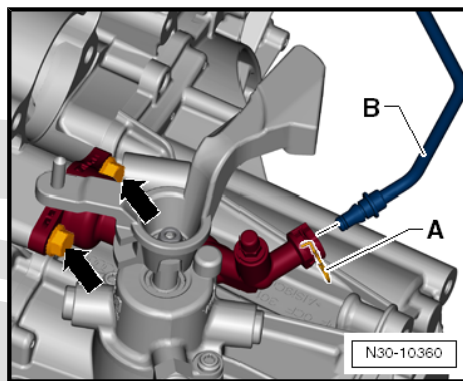
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- Place lint-free cloth under clutch slave cylinder.
- Release clip -A- with a screwdriver and disconnect pipe/hose assembly -B- from connection.
- Pull pipe/hose assembly -B- out of clutch slave cylinder and seal both openings.
- Remove bolts -arrows- and remove clutch slave cylinder.

⚠ CAUTION

Catch escaping brake fluid.

- ◆ Do not operate clutch pedal after pipe/hose assembly has been disconnected.



Installing

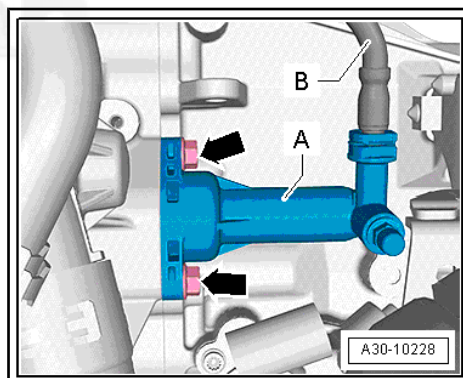
Carry out installation in the reverse sequence, noting the following:



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- ◆ Grease all bearing surfaces and contact surfaces.
- ◆ Allocate grease using ⇒ *Electronic parts catalogue (ETKA)*.
- Fit clutch slave cylinder -A- and secure with bolts -arrows-.
- Connect pipe/hose assembly -B- ⇒ [page 52](#).



Disconnecting and connecting lines for clutch hydraulics

Cutting

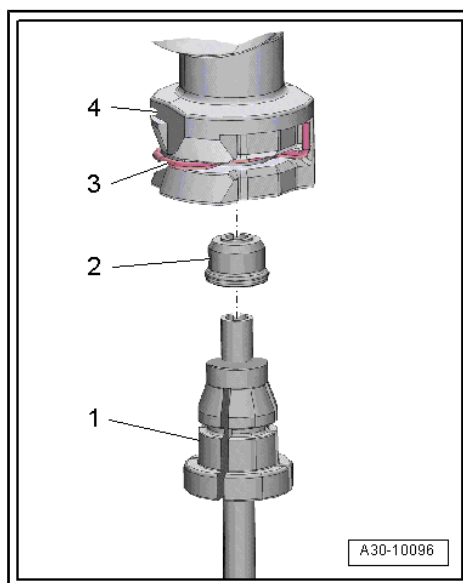
- Release clip -3- with a screwdriver and disconnect pipe/hose assembly -1- from connection -4-.

Connecting



Note

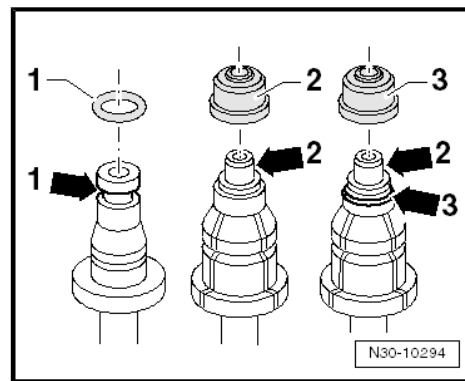
- ◆ Instead of the seal -2- it is also possible to install an O-ring ⇒ [page 53](#).
- ◆ Renew seal -2- if damaged.
- Press pipe/hose assembly -1- into connection -4- so that clip -3- snaps into place.
- Pull on pipe/hose assembly to check it is secure.



Seals and O-rings for pipe/hose line or pipe line

Position.	Material of line connection
1	Line connection with annular groove -arrow 1-
2	Connection with shoulder -arrow 2-
3	Line connection with shoulder -arrow 2- and circumferential groove -arrow 3-

- For line connection having circumferential groove -arrow 1- and -arrow 3-, a seal or O-ring must be set there.
- Bleed clutch mechanism ➔ [page 56](#) .



Battery in engine compartment

- Install battery tray ➔ Electrical system; Rep. gr. 27 ; Battery; Removing and installing battery tray .
- Install battery and battery cover ➔ Electrical system; Rep. gr. 27 ; Battery; Removing and installing battery .
- If removed beforehand, install air filter housing.

Vehicles with diesel engine

- ➔ Rep. gr. 23 ; Air filter; Removing and installing air filter housing

Vehicles with petrol engine

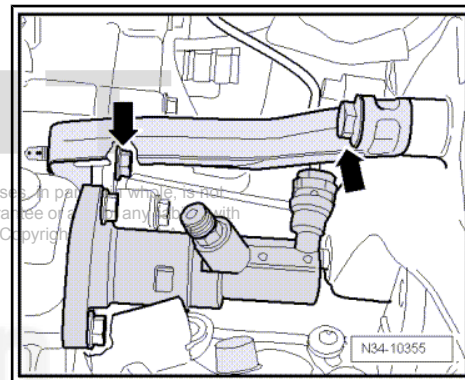
- ➔ Rep. gr. 24 ; Air filter; Removing and installing air filter housing

Continued for all vehicles

Specified torques

- ◆ Clutch slave cylinder to gearbox
➔ ["1.4 Assembly overview - clutch release mechanism", page 25](#)
- ◆ Gearbox support to gearbox bracket and gearbox -arrows-
➔ ["3.1 Exploded view - assembly mountings", page 183](#) .

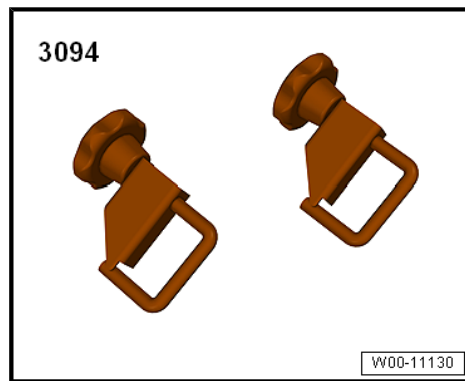
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1.14 Removing and installing lines for clutch hydraulics

Special tools and workshop equipment required

- ◆ Hose clamps, up to Ø 25 mm - 3094-



Removing

- Remove complete air filter housing if it prevents access to the lines for clutch mechanism.

Vehicles with diesel engine

- ⇒ Rep. gr. 23 ; Air filter; Removing and installing air filter housing

Vehicles with petrol engine

- ⇒ Rep. gr. 24 ; Air filter; Removing and installing air filter housing

Battery in engine compartment

- Remove battery tray ⇒ Electrical system; Rep. gr. 27 ; Battery; Removing and installing battery tray .

Ibiza left-hand drive vehicle

- Unclip engine control unit from bracket on plenum chamber bulkhead without disconnecting electrical connector, and lay it to one side ⇒ Rep. gr. 24 ; Engine control unit .

Right-hand drive vehicles

An insulation mat is installed in conjunction with some engines. Appearance may be different from that illustrated.

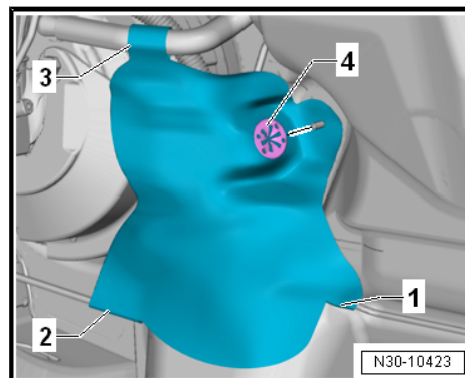
- Remove insulation mat. Note item -1...4-.

Continued for all vehicles

CAUTION

Risk of brake fluid escaping.

- ◆ During the following work, ensure that no brake fluid lands on longitudinal member or gearbox. If this does happen, clean the affected areas thoroughly.
- ◆ Lay a lint-free cloth under master cylinder.



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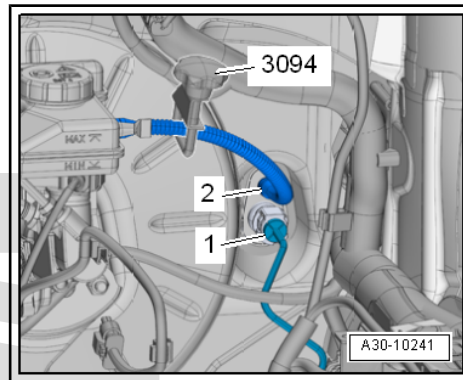


- Using hose clamp - 3094- , clamp off supply hose -2- to clutch master cylinder.



Note

- ◆ *Clamping off the supply hose with the hose clamp - 3094- will cause a permanent deformation.*
- ◆ *However, this does not damage the supply hose.*
- ◆ *After removing the hose clamp - 3094- , the supply hose must be returned to its original shape.*



- Pull out clip for pipe/hose assembly -1- to stop ➤ [page 16](#) .
- Pull off pipe/hose assembly ➤ [page 20](#) .
- Seal openings.
- Pull clip -A- all the way out and remove pipe/hose line -B-.
- Seal openings.

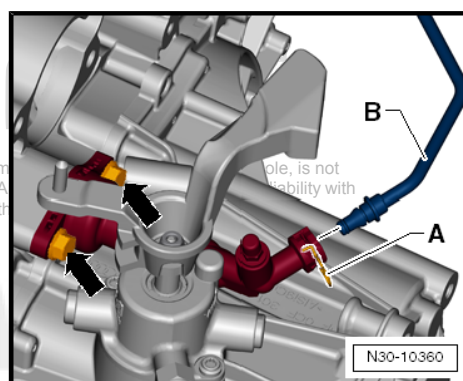


Note

Disregard -arrows-.

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- Seal off open lines and connections if necessary with clean plugs from engine bung set - VAS 6122- .
- Move pipe/hose assembly clear and remove.

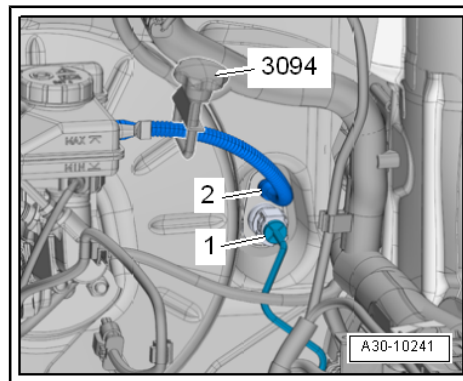


Installing

Carry out installation in the reverse sequence, noting the following:

- Connect hose/pipe assembly -1- to connection of clutch master cylinder and clutch slave cylinder.
- Pull on pipe to check it is secure.
- After removing the hose clamp - 3094- , the supply hose -2- must be returned to its original shape.

Ibiza left-hand drive vehicle



Right-hand drive vehicles

- If fitted, fold insulation mat in the sequence -1, 2, 3- around lines.
- Secure the insulation mat with the lock washer -4-.

Continued for all vehicles

- Bleed clutch mechanism ⇒ [page 56](#) .
- Install battery and battery tray ⇒ Electrical system; Rep. gr. 27 ; Battery; Removing and installing battery tray .
- Fit the complete air filter housing.

Vehicles with diesel engine

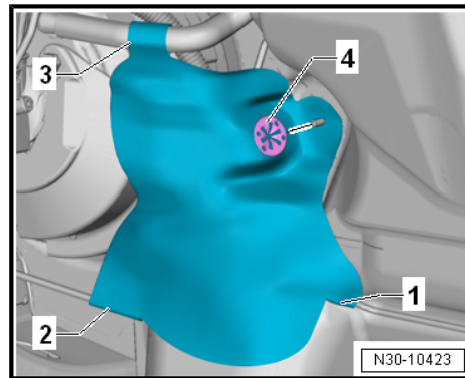
- ⇒ Rep. gr. 23 ; Air filter; Removing and installing air filter housing

Vehicles with petrol engine

- ⇒ Rep. gr. 24 ; Air filter; Removing and installing air filter housing

Battery in engine compartment

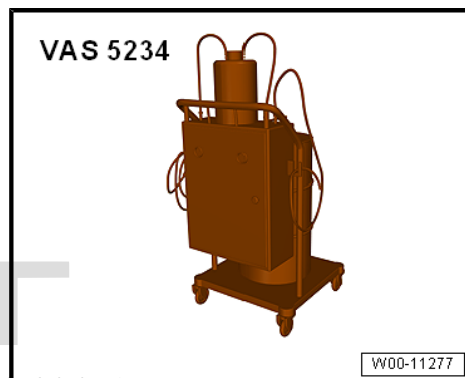
- Install battery and battery cover ⇒ Electrical system; Rep. gr. 27 ; Battery; Removing and installing battery .



1.15 Bleeding clutch mechanism

Special tools and workshop equipment required

- ◆ Brake filling and bleeding equipment - VAS 5234-



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Note

- ◆ *After carrying out work on the hydraulic clutch mechanism, the system must be bled.*
- ◆ *When performing the following steps, make sure that no brake fluid escapes onto the gearbox.*
- ◆ *Prefilling system is not necessary!*
- ◆ *Before bleeding the clutch system, top up the brake fluid reservoir to the "Max." marking with brake fluid.*
- ◆ *Clutch pedal is at rest position, is not being depressed.*
- ◆ *Brake fluid: allocation ⇒ Electronic parts catalogue (ETKA)*
- Remove complete air filter housing if it prevents access to bleeder valve (-arrow- illustration below).
- ◆ Diesel engines ⇒ Rep. gr. 23 ; Air filter; Remove and install the air filter housing