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4. Install the brake vacuum pipe (**D-Fig.6**) securing it with its antitheft clamp (**E-Fig.6**).

- Assemble the luggage compartment (**080605**).
- Assemble the front bumper (**080605**).
- Check that the brake vacuum pump is properly installed and operating by means of the LaRa-AS engine control unit "01" Basic setting 8 (**109000**).

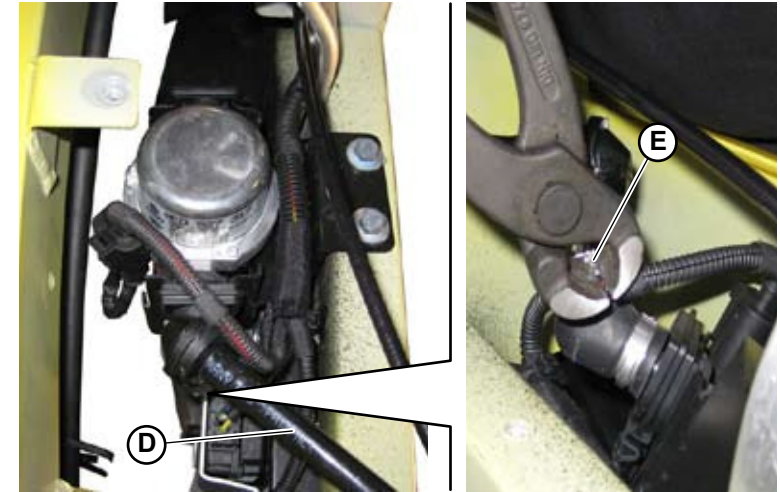


Fig.6



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C) Assembling the vacuum sensor

1. Connect the connector (A-Fig.7) on the sensor.
 2. Secure the vacuum sensor pipe using the clamp (B-Fig.7).
 3. Insert the sensor (C-Fig.7) inside the brake booster reservoir.
- Assemble the luggage compartment (080605).



Fig.7



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D) Assembling the pan

1. Insert the pan (A-Fig.8) to the two unions (B-Fig.8) on the brake booster and clip into its slot (C-Fig.8).
2. Tighten the screw (D-Fig.9).
3. Connect the connector (E-Fig.9).
4. Connect the pipe (F-Fig.9).

- Assemble the luggage compartment (080605).



Bleed the brake circuit (061106).

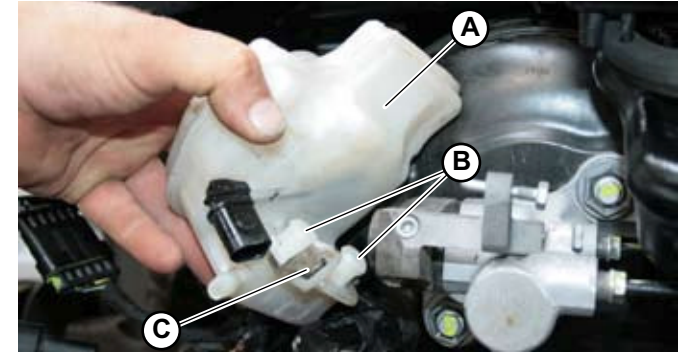


Fig.8

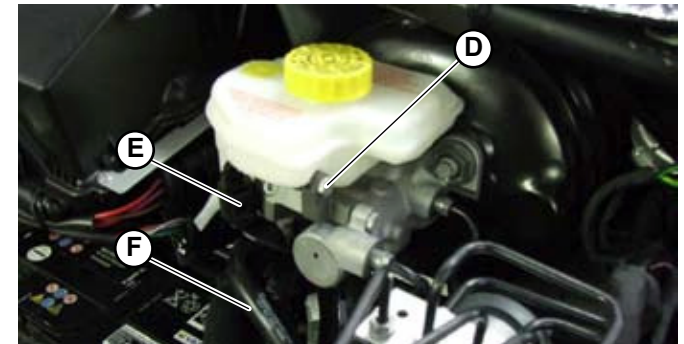


Fig.9



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E) Assembling the brake vacuum pipe

1. Position the rear part (**A-Fig.10**) of the brake vacuum pump pipe.
2. Tighten the screw securing the brake vacuum pump pipe mounting bracket (**B-Fig.10**) to the chassis.
3. Position the fastener (**C-Fig.10**) securing the rear part of the pipe with the power steering circuit return pipe.
4. Connect the front part to the rear part of the pipe (**D-Fig.11**).

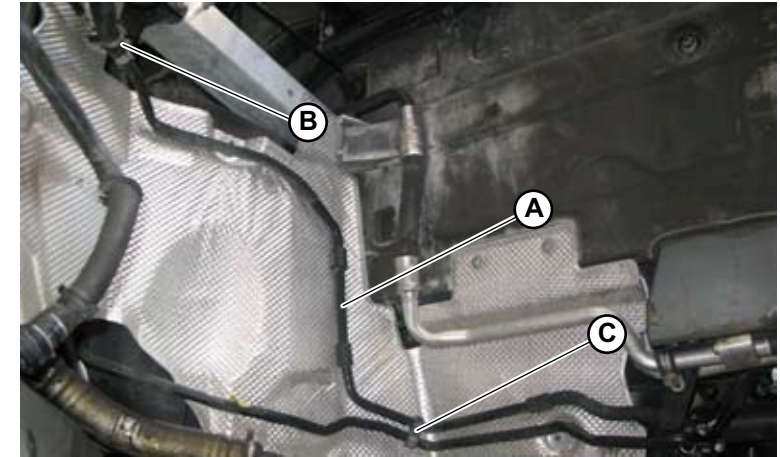


Fig.10

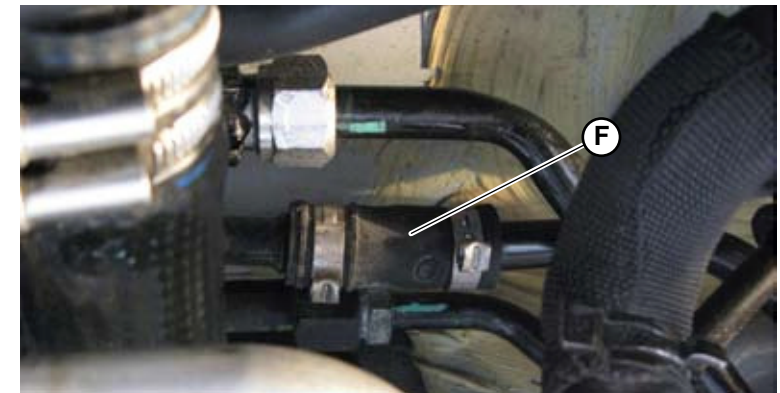


Fig.11



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5. Fasten the three clamps (**E-Fig.12**) securing the brake vacuum pump pipe to the center console.

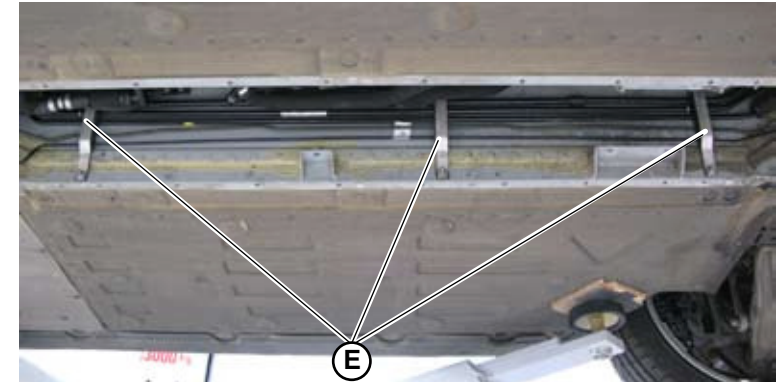


Fig.12

6. Fasten the clamp (**F-Fig.13**) securing the pipe to the chassis near the differential compartment.



Fig.13

7. Connect the connection (**G-Fig.14**) with the brake booster pipe.



Fig.14



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8. Position the two interlocking clamps (**H-Fig.15**).
9. Fasten the clamp to connect the pipe (**I-Fig.15**) to the brake vacuum pump.
 - Assemble the central cooling circuit pipes (**012105**).
 - Assemble the battery (**091505**).
 - Assemble the luggage compartment (**080605**).
 - Assemble the front differential (**040905**).
 - Assemble the propeller shaft (**030705**).
 - Assemble the entire engine (**010005**).
 - Assemble the front, centre and rear vehicle floors (**082505**).

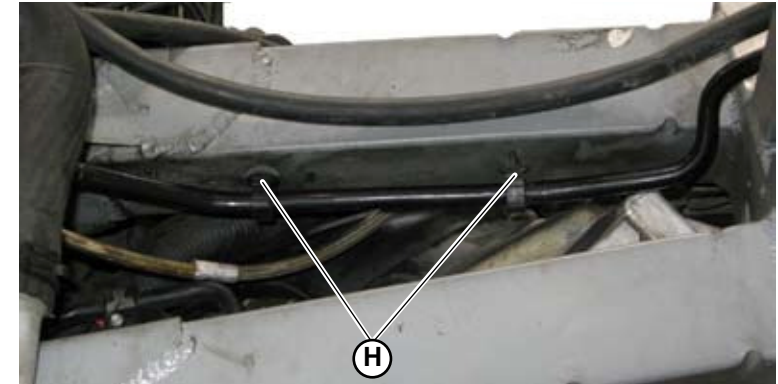


Fig.15



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ABS System

During braking the ABS function allows the modulation of the braking force effectively applied to each wheel, thus preventing one or more wheels from becoming blocked, which would otherwise cause the loss of control of the vehicle.

The control unit carries out the corrections to the braking by reading the relative speed of each wheel, obtained by special sensors (pick-up).

To guarantee a good signal quality, the distance between the pick-up and the phonic wheel must be between 0.9 ÷ 1.0 mm. The electro-hydraulic control unit carries out all the corrections on the braking, using 4 ISO valves and 4 DUMP valves. When an ISO valve is closed, the disc brake calliper is isolated from the hydraulic pump.

The DUMP valve, on the other hand, is used to reduce the pressure of the corresponding disc brake calliper that is present in the hydraulic circuit. If, during normal use of the vehicle, the ABS warning light on the dashboard is switched on and the buzzer sounds at the same time, it means that the ABS control unit has found a fault in the system. When the warning light is on the ABS does not work; this means that in the vehicle the braking system works anyway, but the electronic control on the braking is deactivated.

ABS system vacuum recovery pump

The electric vacuum recovery pump is positioned in the front bumper area and is controlled by the MASTER engine injection control unit only with the engine running.

Its operation is determined by a pressure sensor that calculates its drop and makes the pump cut in to maintain the vacuum.

Its operation can be checked by means of the LaRa-AS engine control unit "01" Basic setting 8 (109000).

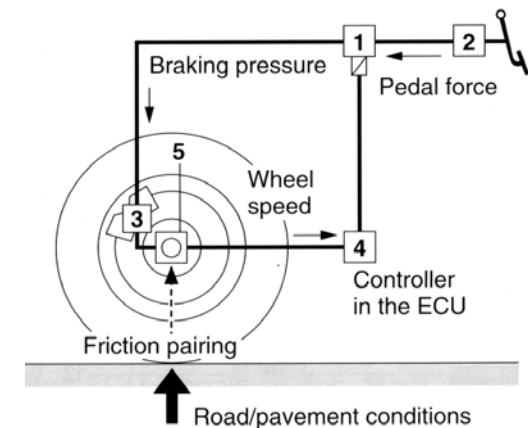
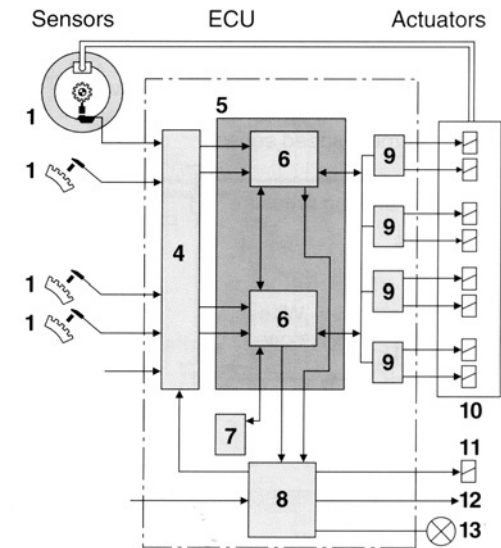


Fig.1