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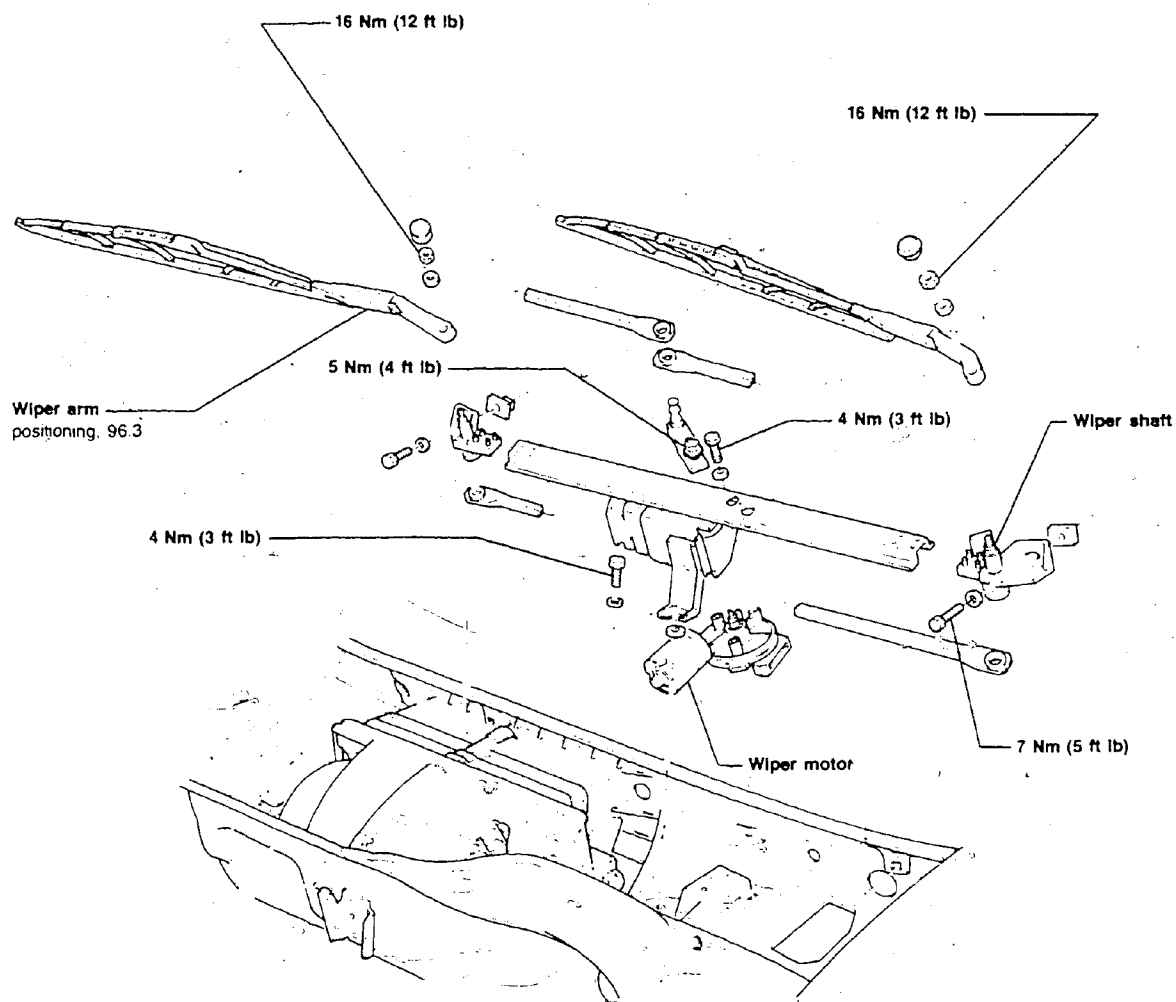
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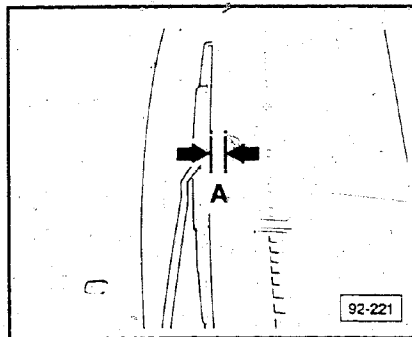
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Electrical System – Windshield Wiper & Washer



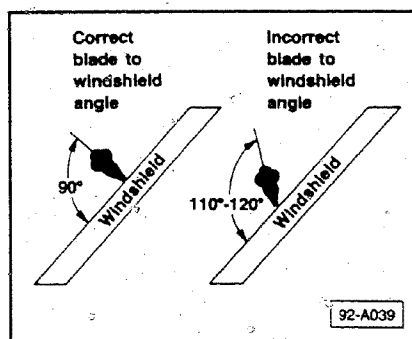
92-219a

Electrical System – Windshield Wiper & Washer



Wiper blade, positioning

- A = approximately 2 cm (3/4 in.) from wiper blade to black edge of windshield
- install wiper blade parallel to black edge of windshield



Wiper arm angle, adjusting

Windshield wiper blade chatter and skipping of blade across windshield can be caused by incorrect wiper arm angle.

The incorrect wiper arm angle will not allow the wiper blade to flip and follow the wiper arm.

It is most noticeable on the downward stroke of the wiper.

To adjust wiper arm angle,

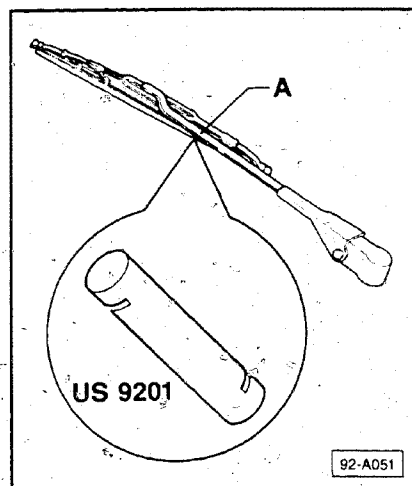
- insert slot of wiper arm adjusting tool **US 9201** over wiper arm
- bend wiper arm at **A** to obtain correct wiper arm angle

Note

Wiper arm must be bent at location **A**. Bending the wiper arm in the wrong location will not provide a lasting repair.

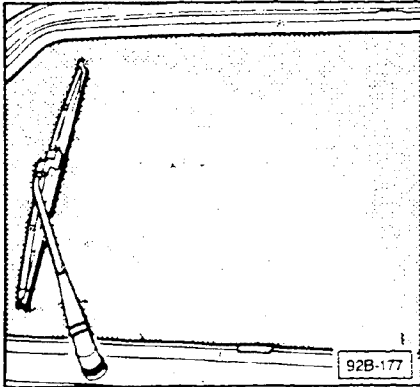
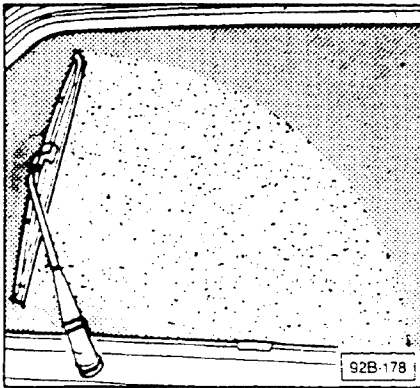
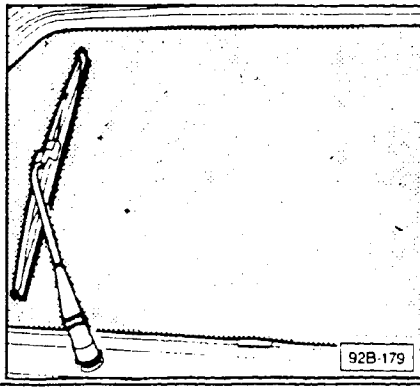
Wax and dirt build-up on windshield wiper blades can cause streaking and smearing on windshield when using wipers.

- **do not replace** windshield wiper blades that may only need to be cleaned
- clean wax and dirt build-up from wiper blades and entire windshield with alcohol based cleaning solution or rubbing alcohol and water
- see troubleshooting chart on next page
- refer customer to instructions in Owner's Manual

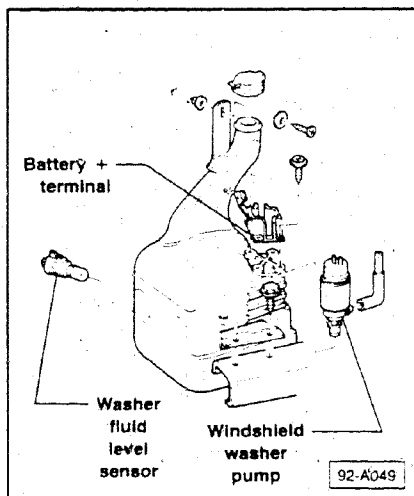


Electrical System – Windshield Wiper & Washer

Windshield wiper troubleshooting

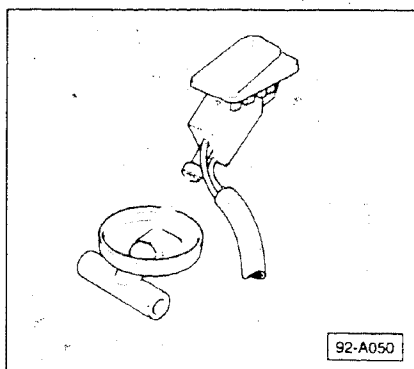
Symptoms	Possible causes	Solutions
Bad wiping (sheeting)  92B-177	• dirty blade lip • blade lip worn, torn or broken • old blade lip	— clean blade lip with wet cloth and soap, alcohol based cleaning solution, or rubbing alcohol and water — rinse with water — replace blades — replace blades
Some water remains in the wiping area, forming droplets  92B-178	• windshield glass contaminated by pollutants, oil or film from diesel engine exhaust	— clean windshield glass with clean cloth soaked in solution of alcohol (or ammonia) and warm water
Windshield wiper blades clean to one side and are deficient to the other (chatter)  92B-179	• blade lips are deformed or filled with dirt or foreign matter on one side • windshield wiper arms are twisted. Rubber lips do not touch glass properly • glass is dirty or not wet enough, resulting in varying friction between blade and glass	— replace blades — bend wiper arm to obtain proper blade contact — clean the glass with clean cloth soaked in solution of alcohol (or ammonia) and warm water

Electrical System – Windshield Wiper & Washer



▶ Windshield washer bottle

Located in right front engine compartment
Capacity = 5.3L (5.8 qts.)



▶ Heated windshield washer nozzles

Nozzle is heated by a PTC (positive temperature coefficient) resistor.

Current is supplied to resistor whenever ignition is switched **ON**.

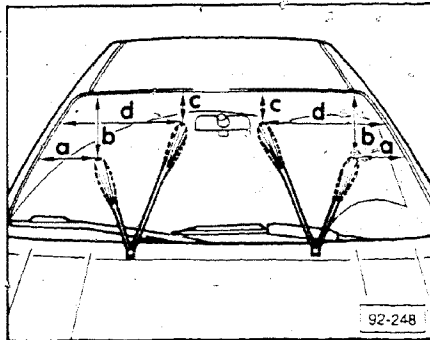
If temperature is very cold, current draw is: 0.5A to 0.7A.

As nozzles warm up, current draw will decrease to: 0.2A.

Electrical System – Windshield Wiper & Washer

Spray jets, adjusting

- adjust spray jets using tool 3125



CAUTION

DO NOT adjust spray jets using a needle, pin or similar object or damage to the spray jets will result.

- a = 250 mm (9.8 in.)
- b = 280 mm (11.0 in.)
- c = 180 mm (7.1 in.)
- d = 500 mm (19.7 in.)

adjusting tolerance $\pm$ 20 mm (0.8 in.)

If water spray is uneven or cannot be adjusted to specifications.

- replace spray jet