

### Heated windshield washer system

As of 09/87 all sedans and coupes of left hand drive version are equipped with a heated windshield washer system as a standard feature. The right hand drive vehicles and vehicles for tropical countries are supplied without heated windshield washer system.

The windshield washing agent in the tank is heated via a heat exchanger from the coolant circuit. The hose system from the tank to the windshield washer nozzles and the actual nozzles are electrically heated so that freezing of the entire system is no longer possible while driving. The headlamp wiper system as special version draws the washing agent from the same tank as the windshield washer system so that this too is preheated. Like before, hoses and nozzles are not heated.

The windshield washer system should always be filled with MB windshield washing agent - during summer with concentrate S, during winter with concentrate W - and water in the specified mixing ratio.

### Function

#### Heating of tank by coolant

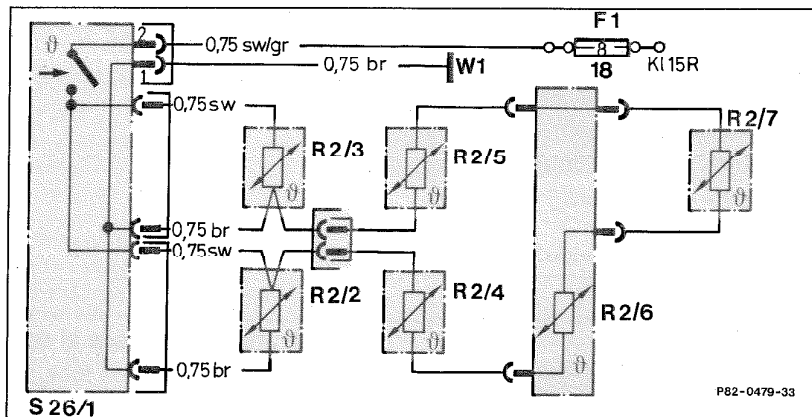
Similar to the windshield heater, the heat exchanger (tubular coil) in the washing agent tank of the windshield washer system is supplied with warm coolant from the bypass flow to the heating circuit. A thermostatic valve with wax pill element located in the washing agent in the tank ensures uniform temperature of the windshield washing agent of +20 °C to +30 °C.

## 82-0797 Function, wiring diagram heated windshield washer system

### Electrical heating of hoses and nozzles

At an outside temperature of approx. +5 °C the heater is switched on via a thermostat and switched off again at approx. +15 °C. The hoses from the tank to the windshield washer nozzles and the check valve are heated by means of resistance wires. The nozzles which up to now were heated electrically, are supplied with increased heating capacity.

The power consumption of the entire windshield washer system is approx. 4.7 A at 13 volts.



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### Wiring diagram heated windshield washer system

F1	Fuse and relay box	R2/5	Right heated washer nozzle hose
R2/2	Left heated windshield washer nozzle	R2/6	Heated check valve
R2/3	Right heated windshield washer nozzle	R2/7	Heated windshield washer pump hose
R2/4	Left heated washer nozzle hose	S26/1	Heated windshield washer system thermostat
		W1	Main ground (behind instrument cluster)