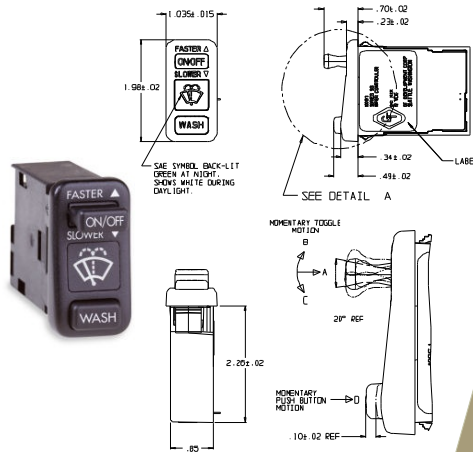


Wiper Washer Controller



The GT Wiper Washer Controller with integrated wiper delay function is designed for installation on vehicle dashboards to control wiper speed and wash functions. The microprocessor-based device combines the functions of two or three conventional wiper controls, and mounts in a standard 22mm x 44mm dashboard cutout.

The Wiper Controller has been custom designed to control all wiper functions. The multi-function toggle is used to turn the wiper on and off, and also varies wiper speed between high, low, and five intermittent speeds. The lower button initiates a combined wash and wipe cycle.

Performance

Application	Designed for installation on vehicle dashboards to control wiper speed.
Wiper Modes	High, low, mist and interval delays of 3, 5, 8, 12, and 17 seconds. High and low speed wiper rate are determined by the wiper motor selection. Interval delay is achieved by a .5 second activation of the low speed wiper output (one wipe). Delay cycle is timed from start to start.
Functionality	Refer to actuator motion legend table.
Circuit diagram	Refer to schematic.
Wash Motor	Six amps maximum current (12 volts). Four amps maximum current (24 volts).
Temperature	Operating temperature = -20° to 160° F, storage temperature = -40° to 185° F.
Nominal Voltage	12 volts (9 volts minimum, 16 volts maximum) 24 volts (18 volts minimum, 32 volts maximum)
Electrical	Conforms to SAE J1455 (load dump, reverse polarity, over voltage, inductive switching, mutual coupling, ESD, cold cranking, and radiated susceptibility).

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Performance

Environmental	Conforms to SAE J1455 (load dump, reverse polarity, over voltage, inductive switching, mutual coupling, ESD, cold cranking, and radiated susceptibility.)
Relay Coil Resistance	Relay coil resistance = 60 ohms (minimum) for 12 volt systems.
Mounting	Designed to mount in a 22mm x 44mm (.867 +/- .005 x 1.734 +/- .005") dashboard opening with a panel thickness of .062" to .094" and .108" to .128" .
Material	Zytel 72G13 HSIL BK Black Nylon 6/6 13% Glass
Part Marking	Part labeled with GT part number and date code.

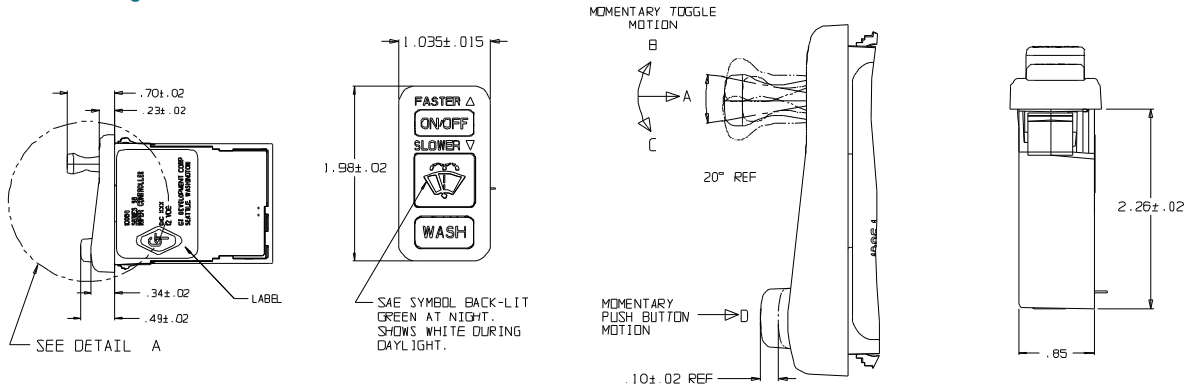
Actuator Motion Legend

Actuator	Motion	Function
Top Toggle (On/Off)	In (A)	If wiper is off, turn wiper on to low speed. If wiper is on in any mode, turns wiper off.
	Up (B)	If wiper is off, turn wiper onto high speed. If wiper is on, increment wiper to next highest speed. If held for more than 1 second, wiper enters its longest delay mode.
	Down (C)	If wiper is off, turns on to low speed. If wiper is on, increments wiper to next highest speed. If held for more than 1 second, wiper enters its longest delay mode.
Bottom Toggle (On/Off)	In (D)	<p>When unit is off or in delay mode and not wiping: If pressed less than 5 seconds, single low speed dry wipe (mist function). If pressed more than 500 ms, unit continues in low speed and washes for 2 seconds +/- .5 seconds (typically 1-2 cycles) or until released. After release, unit continues to cycle in low speed for 3 seconds +/- .5 seconds (typically 2 additional wipe cycles) then unit returns to prior state.</p> <p>When unit is in low or high speed mode or wiping in delay mode: If pressed, unit continues in current speed (low or high) and washes for 2 Seconds +/- .5 seconds (typically 1-2 cycles) or until release, unit continues at current speed or delay.</p>

Wiper Washer Controller



Drawings



Schematic

