

Peterson Manufacturing Company

The following questions are frequently asked about automotive lighting in general and about Peterson's products in particular.

LAMP TROUBLE-SHOOTING CHART

PROBLEM	POSSIBLE CAUSE	POSSIBLE CORRECTIVE ACTIONS
Lamp won't light	Bulb is burnt out	- Replace bulb if bulb can be replaced - Replace lamp if bulb cannot be replaced
	Bad connection to ground	- Tighten grounding connection (screw or nut on grounding stud) - Remove dirt, film, paint or rust from grounding surface - Replace lamp
	Bulb not in socket correctly	- Put bulb in socket correctly if possible - Replace lamp
	Bad or loose lamp terminal(s)	- Tighten or replace terminal connection if possible - Replace lamp
	Bad or loose connection inside the lamp	- Tighten or replace terminal connection if possible - Replace lamp
	Low or no voltage to lamp	- Evaluate vehicle wiring
	Incorrect bulb in lamp	- Replace bulb with correct bulb if possible - Replace lamp
Lamp is dim	Bad connection to ground	- Tighten grounding connection (screw or nut on grounding stud) - Remove dirt, film or paint from grounding surface - Replace lamp
	Bulb not in socket correctly	- Put bulb in socket correctly if possible - Replace lamp
	Bad or loose lamp terminal(s)	- Tighten or replace terminal connection if possible - Replace lamp
	Low voltage to lamp	- Evaluate vehicle wiring and wiring harnesses - Consider adding a relay to vehicle wiring to operate lamp(s)
	Incorrect bulb in lamp	- Replace bulb with correct bulb if possible - Replace lamp
Lamp life is short	Voltage to lamp is higher than lamp rating	- Replace lamp with lamp with correct voltage rating
	High vibration	- Evaluate lamp to see if lamp is correct lamp for application - Replace lamp with lamp of higher vibration capabilities if available
	Rated life of bulb in lamp is low	- Evaluate bulb to see if bulb is correct bulb for application - Replace bulb with higher life bulb if available
Lamp blows out fuse	Vehicle wiring to lamp is shorting to ground	- Evaluate vehicle wiring
	Ground wire is connected to the wrong place	- Evaluate connections of ground wires for correct connections to ground.
	Lamp is shorting to ground	- Evaluate lamp wiring, remove short to ground if possible - Replace lamp
	Fuse value is too low	- Replace fuse with correct value - Consider operating lamp(s) on a separate fuse
	Too many lamps for current vehicle fuse	- Consider operating lamp(s) on a separate fuse - Consider adding a relay to vehicle wiring to operate lamp(s)
Lamp switch melts	Defective switch	- Replace switch
	Value of inline fuse is too high	- Replace fuse with correct value - Consider operating lamp(s) on a separate fuse
	No inline fuse connected to switch	- Add a fuse inline to the switch
	Too many lamps are connected to switch	- Consider adding a relay to vehicle wiring to operate lamp(s) - Consider adding a second switch to vehicle wiring to operate some of the lamp(s)
	Lamp(s) are operating continuously for long periods of time	- Consider adding a relay to vehicle wiring to operate lamp(s)