

LightGenie™
Performance Package for OEMs
(As compared to other packages in use)

	LightGenie™	Twilight Sentinel/ AutoLamp Package	Daytime Running Lamps Package	Flash-To-Pass Package	Toyota's Relay Integration	GEM/Battery Saver	Volvo, Subaru, Hyundai, BMW
1• Turning on automatically night driving lights (head and tail lights), when vehicle engine runs and when ambient light level is low or when it rains:	YES	YES	NO	NO	NO	NO	NO
2• Turning off automatically night driving lights when vehicle engine is shut off: (Hyundai, Volvo, and BMW shut off only Head Lights, leaving Park lights on that may run down the battery inadvertently)	YES	YES	NO	NO	YES	NO	YES
3• Turning off automatically night driving lights when vehicle engine runs and ambient light level is bright:	YES	YES	NO	NO	NO	NO	NO
4• Selectable, automatic 40-second delay turn-off of night driving lights: (Only fixed delay turn-off for Twilight Sentinel and AutoLamp Package)	YES	YES	NO	NO	NO	NO	NO
5• Turning on tail lights alone or head and tail lights, without an ignition key:	YES	YES	NO	NO	YES	NO	NO
6• Automatic 4-minute delay turn-off of lights turned on as described immediately above:	YES	NO	NO	NO	NO	NO	NO
7• As a preference, turning on automatically the upper-beam headlights alone at between 500 and 1500 candela, where permissible by regulations, as Daytime Running Lamps (DRLs) when vehicle engine runs, ambient light level is bright, and the dimmer switch is in the recommended normal lower-beam position:	YES	NO	YES	NO	NO	NO	NO
8• Turning on automatically the lower-beam headlights alone at full or lower than design intensity, where permissible by regulations, as Daytime Running Lamps (DRLs) when vehicle engine runs and ambient light level is bright, and the dimmer switch is in the recommended normal lower-beam position:	YES	NO	YES	NO	NO	NO	NO
9• Complying fully with US regulations on DRLs when chosen to be offered on new vehicles, yet allowing all lights to turn off at user's discretion, day or night:	YES	NO	NO	NO	NO	NO	NO
10• Complying fully with Canadian DRLs regulations, (When the Main Light Switch is in the OFF position, day or night, or in the PARK position in daytime, the DRLs shall be ON, when the engine runs, and the safety brake is released):	YES	NO	YES	NO	NO	NO	NO
11• Turning off automatically the DRLs when the vehicle engine is shut off:	YES	NO	YES	NO	NO	NO	NO
12• Turning off automatically the DRLs when the vehicle engine runs and ambient light level is low:	YES	NO	NO	NO	NO	NO	NO

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13• Automatically turning off the DRLs, and turning on the lower-beam headlights and tail lights, during day or night, at the entrance of tunnels:	YES	NO	NO	NO	NO	NO	NO	NO
14• Flash-To-Pass (Optical Horn) in daytime driving when dimmer switch is actuated alternately, beginning with the normal lower-beam position of the dimmer switch:	YES	NO	NO	YES	NO	NO	NO	NO
15• Returning immediately to DRLs in daytime driving after Flash-To-Pass when the dimmer switch is returned to the recommended normal lower-beam position; or two seconds after Flash-To-Pass when the dimmer switch is not returned to the lower-beam position:	YES	NO	NO	NO	NO	NO	NO	NO
16• Turning on any lights for Dome, Trunk, Glove compartment, Map, Courtesy, etc... when required; and when any one local switch is forgotten to be turned off (such as in a Map light), or refuses to shut off (such as in a defective trunk light switch), turning off those lights automatically with educated delays, for battery saving :	YES	NO	NO	NO	NO	NO	YES	NO
17• While vehicle is parked at a dark area, turning on tail lights and all their related lights, for 4 hours in a continuous, low-intensity mode, then turning them off automatically, with plenty of battery saving for restarting engine:	YES	NO	NO	NO	NO	NO	NO	NO
18• Activating intuitively all automatic and manual operations with just the traditional switches of any vehicle:	YES	NO	NO	NO	NO	NO	NO	NO
19• Automatic protection for all four light wiring groups of vehicle (Lower-Beams Headlights, Upper-Beams Headlights, Tail lights, and Dome lights) against short circuits, over currents or over voltages with independent, smart, reliable, electronic, self-resetting circuit breakers:	YES	NO	NO	NO	NO	NO	NO	NO
20• Installable on the assembly line during vehicle manufacturing, as a single integral unit including the light sensor, in far less than one minute:	YES	NO	NO	NO	NO	NO	NO	NO
21• Installable safely in a few minutes as a low-cost, factory-certified option at the new-car sale showroom by a salesman, conceivably free of charge:	YES	NO	NO	NO	NO	NO	NO	NO
22• Installable safely as a factory-certified option, any time after sale by a modestly skilled user in a few minutes, or for a modest installation charge:	YES	NO	NO	NO	NO	NO	NO	NO
23• Simple computer-aided diagnostics for fool-proof installation:	YES	NO	NO	NO	NO	NO	NO	NO

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24• Clear, continuous visual report to user about integrity of operations of the unit a few seconds after the vehicle engine is shut off:	YES	NO	NO	NO	NO	NO	NO
25• Clear visual indications to good Samaritans not to waste time to warn user unnecessarily about headlights left on for automatic delay turn-off:	YES	NO	NO	NO	NO	NO	NO
26• Mid-year simple factory wiring change option, for any new vehicle to qualify instantly for an on-assembly or a factory-certified optional unit offering the complete package of benefits (see enclosed diagrams):	YES	NO	NO	NO	NO	NO	NO
27• Absence of costly pre-designed extra wiring and connectors from the most basic wiring for headlights, tail lights and dome lights, for installation of offered unit on the assembly line or as a factory-certified option:	YES	NO	NO	NO	NO	NO	NO
28• Possibility for simplest, least expensive, most uniform documentation and training for auto lighting service across all platforms of a manufacturer:	YES	NO	NO	NO	NO	NO	NO
29• Instant no-cost reprogramming to comply with eventual regulation changes in the permissible luminous intensity range of the DRLs:	YES	NO	NO	NO	NO	NO	NO
30• Full benefit package operation with no mandatory changes in vehicle wiring, even already built with electronic dashboard, Flash-To-Pass, Generic Electronic Module (GEM), or lamp-out monitoring devices, except simple and propitious wiring changes, if it is not already there:	YES	NO	NO	NO	NO	NO	NO
31• Instant de-installation of unit to restore original vehicle basic wiring, for well established service procedures (such as computer-aided tests):	YES	NO	NO	NO	NO	NO	NO
32• Instant road-side back up system to unit, for modestly skilled users:	YES	NO	NO	NO	NO	NO	NO
33• User's choice of having DRLs activated or deactivated instantly, on a semi-permanent manner:	YES	NO	NO	NO	NO	NO	NO
34• Flashing Low-beam Headlights and Tail-lights when receiving an input of +5v to +16v, less than 1mA, longer than 25 milliseconds, as an OEM option:	YES	NO	NO	NO	NO	NO	NO
35• Turning on Low Beam Headlights and Tail Lights when the Windshield Wiper is turned on, as an OEM option:	YES	NO	NO	NO	NO	NO	NO
36• Available pre-production samples for tests and certification, now:	YES	NO	NO	NO	NO	NO	NO