

## XKE Series I Front Turn Signal LED Lights

- 1) We suggest that you evaluate the condition of the turn signal lens gaskets and if necessary order new ones before starting installation. Note: These LED lights are designed to function as both running lights and turn signals.
- 2) Remove the turn signal lens and bulb. The small parking light bulb remains in its socket. Disconnect the turn signal wire to the bulb holder. Push this wire out through the lens side of the turn signal. Save these in case you want to restore the turn signals to their original state.
- 3) Take one of the circuit boards and remove the red covers from the double sided tape on the back side of the circuit board.
- 4) Insert the wires back through the bulb socket. The curved end of the circuit board is inserted inside the reflector while the square end faces the outside of the reflector. Push the curved part of the circuit board into the curved part of the turn signal. Press the board down so that the tape contacts the turn signal reflector at both ends. You may want to add a spot of silicon adhesive or hot melt glue to each side for extra holding power.
- 5) Install the lens and gasket.
- 6) The red wire is for the optional running light function. We think it is a safety feature and recommend its use where allowed. If not used, cut the red wire off or tape it to prevent shorting the circuit board.  
Refer to the wiring diagram below for proper wiring.
- 7) Repeat for the other side of the car.
- 8) NOTE: See [LED Flasher Options](#) page for information about turn signal flashers and LEDs.

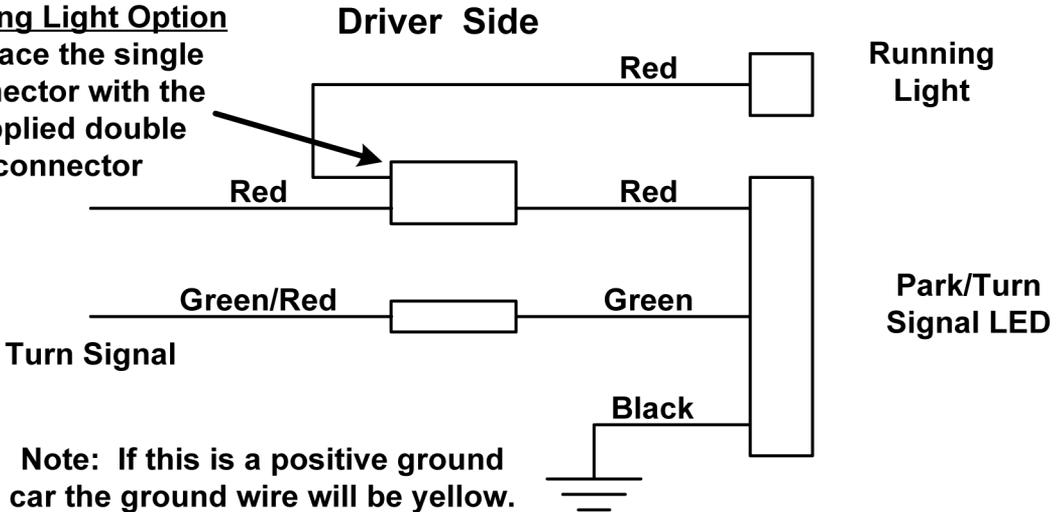
### Part List

	Description	Qty.
1	Double bullet connector	2
2	Park/Turn Signal circuit boards	2

# XKE Series I LED Front Turn Signals

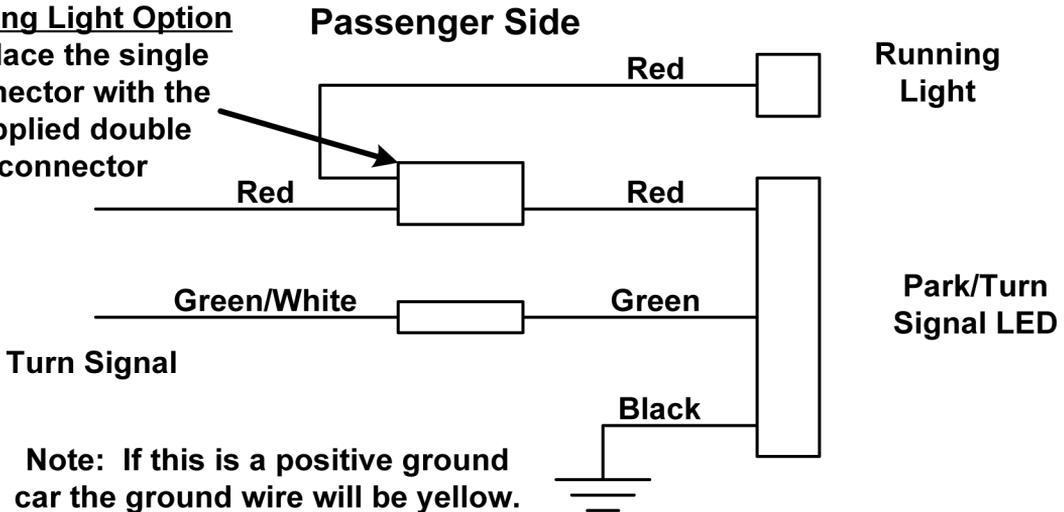
## Running Light Option

Replace the single connector with the supplied double connector



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## LED Flasher Options

LED turn signals usually require an updated flasher to work properly. Most flashers require a minimum of 2 or more incandescent bulbs to flash correctly. That is 3.5 to 4 amps for proper operation. An incandescent turn signal bulb uses about 1.8 amps while an LED turn signal uses 0.25 to 0.45 amps. One incandescent bulb and one LED turn signal don't draw enough amperage for the flasher to work correctly. They usually will turn on and stay on.

Below is a list of flashers that have worked with LED turn signals. You can cross reference these parts to others that should work.

CEC electronic flashers will flash one or more LED lights. Negative ground systems only. Makes clicking sound while flashing.

CEC EF32RL	(2 pin)
CEC EF33RL	(3 pin)

BUSSMANN electronic flashers require the equivalent electrical load of 1 incandescent. These flashers can be used in negative or positive ground systems. Makes clicking sound while flashing.

Buss 232	(2 pin) 1 LED and 1 incandescent bulb
Buss 233	(3 pin) 1 LED and 1 incandescent bulb

TRIDON flashers require the equivalent electrical load of 1 incandescent bulb. These flashers can be used in negative or positive ground systems.

*Ones made in Taiwan don't work correctly.*

TRIDON EL12	(2 pin) 1 LED and 1 incandescent bulb
TRIDON EL13	(3 pin) 1 LED and 1 incandescent bulb

Flashers from ([superbrightleds.com](http://superbrightleds.com)) will flash one or more LEDs and work with negative or positive ground systems. They don't click while flashing.

FL2	(2 pin)
FL3	(3 pin)

Not all electronic flasher work with positive ground cars so check to verify that they are not polarity specific.

If you can't find a flasher that works, the other solution is to install an LED load resistor into each turn signal side (1 resistor for the left side and 1 for the right side). The typical resistors are 6 ohm/50W and are sold on the Internet as a pair. One source is [vleds.com](http://vleds.com) and they are about \$9.00 a pair.