**Instrument Cluster turn signal indicator light.**

In the original Volkswagen wiring design, there is a single turn signal indicator light in the instrument cluster that flashes in conjunction with either a left or right turn input signal. This indicator light does not distinguish between a left or right signal. It only indicates that either a left or right signal is active. This required a special turn signal flasher with a pilot light ground feed directly to the indicator bulb. The bulb received power via a common power feed terminal on the instrument cluster. This original design turn signal flasher and wiring configuration cannot be used with this kit. Instead, we have chosen to use a special non-metallic light socket that replaces the original metal turn signal indicator socket. The advantages to the use of this new socket are as follows:

1. The new socket is a direct press in fit replacement for the original metal light socket.
2. The original turn signal flasher is not required.
3. LED turn signal lights can be used.
   It is common practice to use LED bulbs for turn signals around the vehicle. They run cooler, draw very little current, and generally last longer. However, in order to facilitate the use of LED turn signal bulbs, an LED compatible turn signal flasher must be used. This kit incorporates this type of electronic LED compatible flasher.
4. An LED turn signal indicator bulb can be used.
   LED bulbs are one direction bulbs. In the original Volkswagen wiring design, that uses a single turn signal indicator bulb, a single LED bulb would not work.
5. A colored LED bulb can be used.
   This is a perfect fix for a cracked or worn indicator lens. The turn signal indicator bulb is green.

The replacement light socket is insulated from the instrument cluster housing. It has a terminal that accepts the power source and a ground terminal. The diodes are directional and allow the turn signal input from either the left or right side to flow to the bulb’s input. There can be no backfeed to the opposite side feed wire because the direction of the diode blocks any backfeed. Current flows from anode to cathode only.

<table>
<thead>
<tr>
<th>Anode</th>
<th>Cathode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Current is blocked from cathode to anode. Basically, any signal input lights the bulb without affecting the opposite side. LED bulbs are also directional. However, the input (anode) side of the bulb matches the input terminal of the housing. Current flows from the input terminal of the light socket through the bulb to ground.

![Diagram of turn signal light socket connections](image-url)
Volkswagen Turn Signal /
Emergency Flasher Wiring Kit

1962-65 Beetle - Turn signal lights

The new plastic bulb socket will replace this metal socket in the speedometer cluster.

Diode must be in this direction.

Instrument cluster turn indicator bulb socket (bulb not included).

Note: Must replace 6 volt bulbs with 12 volt bulbs.

LH Turn signal

Note: Must replace 6 volt bulbs with 12 volt bulbs.

Turn Switch Feed

Note: Must replace 6 volt bulbs with 12 volt bulbs.

LH Tail Light Assembly

Note: Must replace 6 volt bulbs with 12 volt bulbs.

RH Tail Light Assembly

Diagram of Volkswagen Turn Signal / Emergency Flasher Wiring Kit.
1966 Beetle - Turn signal, hazard, and brake lights

The new plastic bulb socket will replace this metal socket in the speedometer cluster.

Note: Must replace 6 volt bulbs with 12 volt bulbs

Diode must be in this direction

Instrument cluster turn indicator bulb socket (bulb not included)

Note: Must replace 6 volt bulbs with 12 volt bulbs

LH Turn signal

Note: Must replace 6 volt bulbs with 12 volt bulbs

RH Turn signal

211-953-235A Emergency flasher switch

Note: Must replace 6 volt bulbs with 12 volt bulbs

RH TAIL LIGHT ASSEMBLY

LH TAIL LIGHT ASSEMBLY

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Volkswagen Turn Signal / Emergency Flasher Wiring Kit

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Page 3

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1967 Beetle - Turn signal and hazard lights

The new plastic bulb socket will replace this metal socket in the speedometer cluster.

Diode must be in this direction.

Instrument cluster turn indicator bulb socket (bulb not included).

High filament bulb connection.

LH Turn signal/running light.

RH Turn signal/running light.

To terminal 58b on headlight switch.

High filament bulb connection.

LH TAIL LIGHT ASSEMBLY

RH TAIL LIGHT ASSEMBLY

Horn relay turn relay.

Gauges flasher.

Hazard / turn flasher.

LTS

BAT 2

PARK

BAT 3

STOP

CTSY

ACCY 1

WIPER

ACCY 3

RADIO

HEAT

AC

12V 30A BREAKER

HEAT / AC

ACCY 3

RADIO

ACCY 1

HAZARD

TURN SW

HORN OUT

HORN SW

GAUGES

BAT 2

BAT 3

PARK

STOP/CRTSY

HEADLTS

WIPER

510422

Volkswagen Turn Signal / Emergency Flasher Wiring Kit

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Page 4
1968-69 Beetle - Turn signal and hazard lights

To terminal 58b or headlight switch

Instrument cluster
turn indicator
bulb socket
(bulb not included)

Diode must be in this direction

High filament bulb connection

LH Turn signal/running light

RH Turn signal/running light

211-953-235A
Emergency flasher switch

211-953-235A
Emergency flasher switch

RH TAIL LIGHT ASSEMBLY

Backup light

Brake/tail light

Dash lights

Left front turn

Left front turn

Left rear turn

Left rear turn

Left rear turn

Right front turn

Right front turn

Right rear turn

Right rear turn

Right rear turn

Right rear turn

To terminal 58b on headlight switch

High filament bulb connection

Turn signal sw

TURN SWITCH FEED

PURPLE

BROWN

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1970 - 72 Beetle - Turn signal and hazard lights

Turn
Brake/tail
Backup
light

H L

COMPONENT ASSEMBLY
horn relay
turn relay
gauges
flasher
hazard / turn flasher
HEAD LTS
BAT 2
PARK
BAT 3
STOP
CTSY
ACCY1
WIPER
ACCY3
RADIO
HEAT
AC
HIGHSWAY 15
- 500701
30
20
15
30
20
15
30
20 20
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12V  30A
BREAKER
HEAT / AC
ACCY 3
RADIO
ACCY 1
HAZARD
TURN SW
HORN OUT
HORN SW
GAUGES
BAT 2
BAT 3
PARK
STOP/CRTSY
HEADLTS
WIPER

LH Turn signal/
runging light

Diode must be in this direction

Instrument cluster
turn indicator
bulb socket
(bulb not included)

LH side marker

high filament bulb connection

RH Turn signal/
runging light

RH side marker

high filament bulb connection

To terminal 58b on headlight switch

211-953-235A
Emergency flasher switch

Turn
Brake/tail
Backup
light

LH TAIL LIGHT ASSEMBLY

RH TAIL LIGHT ASSEMBLY

B 211-953-235A
Emergency flasher switch

58b
+ (49)
54
L
R

To terminal 58b on headlight switch

DASH LIGHTS
DASH LIGHTS

LH TAIL LIGHT ASSEMBLY

RH TAIL LIGHT ASSEMBLY

black / green
black / white
black / green / white

TURN SW - HAZARD
TURN SW - HAZARD

LEFT FRONT TURN
LEFT FRONT TURN
LEFT FRONT TURN
LEFT DASH IND
LEFT DASH IND
RIGHT DASH IND
RIGHT DASH IND
RIGHT FRONT TURN
RIGHT FRONT TURN
RIGHT FRONT TURN

LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN
LEFT REAR TURN

R 54
L
## WIRE FUNCTION CHART

<table>
<thead>
<tr>
<th>VW CIRCUIT</th>
<th>AAW CIRCUIT</th>
<th>GAUGE</th>
<th>WIRE COLOR</th>
<th>WIRE PRINTING</th>
<th>CIRCUIT FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>58B</td>
<td>8</td>
<td>18</td>
<td>Gray</td>
<td>DASH LIGHTS</td>
<td>Emergency flasher terminal 58B to instrument panel light lead from headlight switch</td>
</tr>
<tr>
<td>L</td>
<td>14A</td>
<td>18</td>
<td>Light blue</td>
<td>LEFT FRONT TURN</td>
<td>In Line splice to left front directional light</td>
</tr>
<tr>
<td>L</td>
<td>14B</td>
<td>18</td>
<td>Light blue</td>
<td>LEFT DASH IND</td>
<td>In Line splice to left dash indicator light</td>
</tr>
<tr>
<td>R</td>
<td>15A</td>
<td>18</td>
<td>Dark blue</td>
<td>RIGHT FRONT TURN</td>
<td>In Line splice to right front directional light</td>
</tr>
<tr>
<td>R</td>
<td>15B</td>
<td>18</td>
<td>Dark blue</td>
<td>RIGHT DASH IND</td>
<td>In Line splice to right dash indicator light</td>
</tr>
<tr>
<td>54</td>
<td>16</td>
<td>16</td>
<td>Purple</td>
<td>TURN SWITCH FEED</td>
<td>Main power from panel connection 7 (TURN SW) to turn signal switch 54 feed wire</td>
</tr>
<tr>
<td>49A</td>
<td>27</td>
<td>14</td>
<td>Brown</td>
<td>TURN SWITCH FEED</td>
<td>Main power from panel connection 6 (HAZARD) to emergency flasher switch 49A terminal</td>
</tr>
<tr>
<td>L</td>
<td>18A</td>
<td>16</td>
<td>Yellow</td>
<td>LEFT REAR TURN</td>
<td>Turn signal switch to left rear directional</td>
</tr>
<tr>
<td>L</td>
<td>18B</td>
<td>16</td>
<td>Yellow</td>
<td>LEFT REAR TURN</td>
<td>In Line splice to emergency flasher terminal “L” for left rear turn</td>
</tr>
<tr>
<td>R</td>
<td>19A</td>
<td>16</td>
<td>Dark Green</td>
<td>RIGHT REAR TURN</td>
<td>Turn signal switch to right rear directional</td>
</tr>
<tr>
<td>R</td>
<td>19B</td>
<td>16</td>
<td>Dark Green</td>
<td>RIGHT REAR TURN</td>
<td>In Line splice to emergency flasher terminal “R” for right rear turn</td>
</tr>
<tr>
<td>150</td>
<td>18</td>
<td></td>
<td>Black</td>
<td>GROUND</td>
<td>Ground lead for new directional indicator bulb socket</td>
</tr>
</tbody>
</table>

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