



SERVICE DIVISION



**Frontliners Audiovisual
Service Technical Information**

**1978-79 M.G. MIDGET
ELECTRICAL CIRCUIT DIAGNOSIS**

INTRODUCTION

The purpose of this program and workbook is to take you through a step by step troubleshooting procedure for every electrical circuit in the car. This will be done by relating the components and circuits shown on the wiring diagram to the actual components and circuits in the car. Also included is the location of the components and circuits. Each circuit is color coded in the filmstrip for easy identification. To find a particular circuit, load the projector and advance the film in fast forward until you reach the desired section as indicated by the color of the circuit.

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Canada and USA except California Specification

Several of the components listed in this key may not be included in the specification of all models.

1 R.H. front side-marker lamp	27 Instrument voltage stabilizer	53 L.H. front flasher lamp
2 Reverse lamp switch	28 Hazard warning switch	54 Starter solenoid
3 Stop lamp switch	29 Hand brake switch	55 Headlamp main beam warning lamp
4 R.H. front flasher lamp	30 Interior courtesy lamp door switch	56 Coolant temperature gauge
5 Horn-push	31 Number-plate illumination lamp	57 Hazard warning flasher unit
6 Horn	32 Windshield wiper motor	58 Ignition key audible warning door switch
7 Oil pressure switch	33 Fuse unit	59 Cigar lighter
8 Diode for brake warning	34 Direction indicator warning lamp	60 Cigar lighter illumination lamp
9 R.H. rear side-marker lamp	35 Hand brake warning lamp	61 L.H. front side-marker lamp
10 R.H. rear flasher lamp	36 Ignition starter switch	62 Battery
11 R.H. tail lamp	37 Switch illumination lamp	63 Starter motor
12 Stop lamp	38 Driver's seat belt buckle switch	64 Heater motor
13 R.H. parking lamp	39 Interior courtesy lamp	65 Heater motor switch
14 Headlamp main beam	40 Distributor	66 Tachometer
15 Headlamp dip beam	41 Alternator	67 Heater control illumination lamp
16 Direction indicator switch	42 Resistor — distributor	68 Panel lamp switch
17 Headlamp dip switch	43 Oil pressure warning light	69 Line fuse for hazard warning
18 Headlamp flasher switch	44 Ignition warning lamp	70 Line fuse for radio*
19 Windshield washer pump	45 'FASTEN BELTS' warning lamp	71 Radio*
20 Coolant temperature transmitter	46 Luggage compartment lamp	72 L.H. rear flasher lamp
21 Flasher unit	47 Ignition coil	73 L.H. tail lamp
22 Brake pressure failure switch	48 Panel lamp	74 L.H. rear side-marker lamp
23 Time delay buzzer	49 Fuel gauge	
24 Fuel gauge tank unit	50 Lighting switch	
25 Reverse lamp	51 Luggage compartment lamp switch	
26 Combined windshield washer and wiper switch	52 L.H. parking lamp	

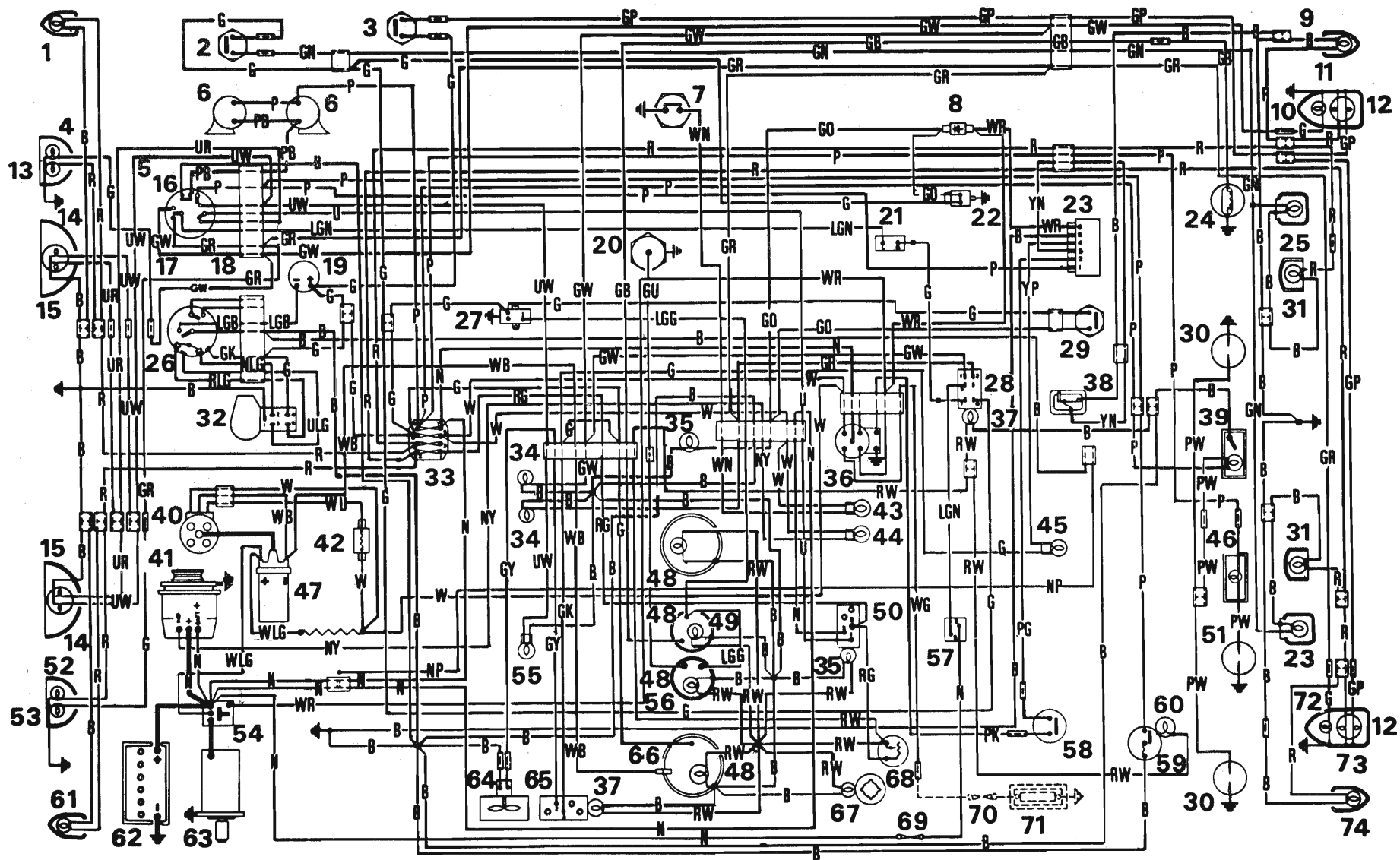
*Optional fitment circuits shown dotted

CABLE COLOR CODE

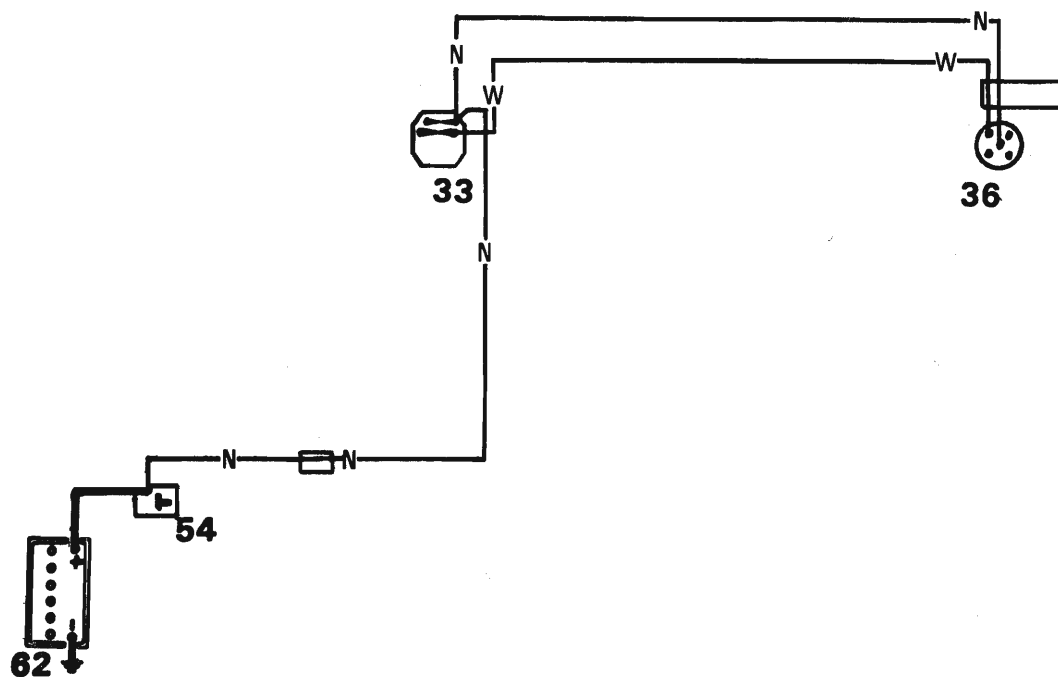
R. Red	N. Brown	P. Purple	W. White	K. Pink	LG. Light Green
B. Black	U. Blue	G. Green	Y. Yellow	O. Orange	S. Slate

When a cable has two color code letters the first denotes the main color and the second denotes the tracer color.

KEY

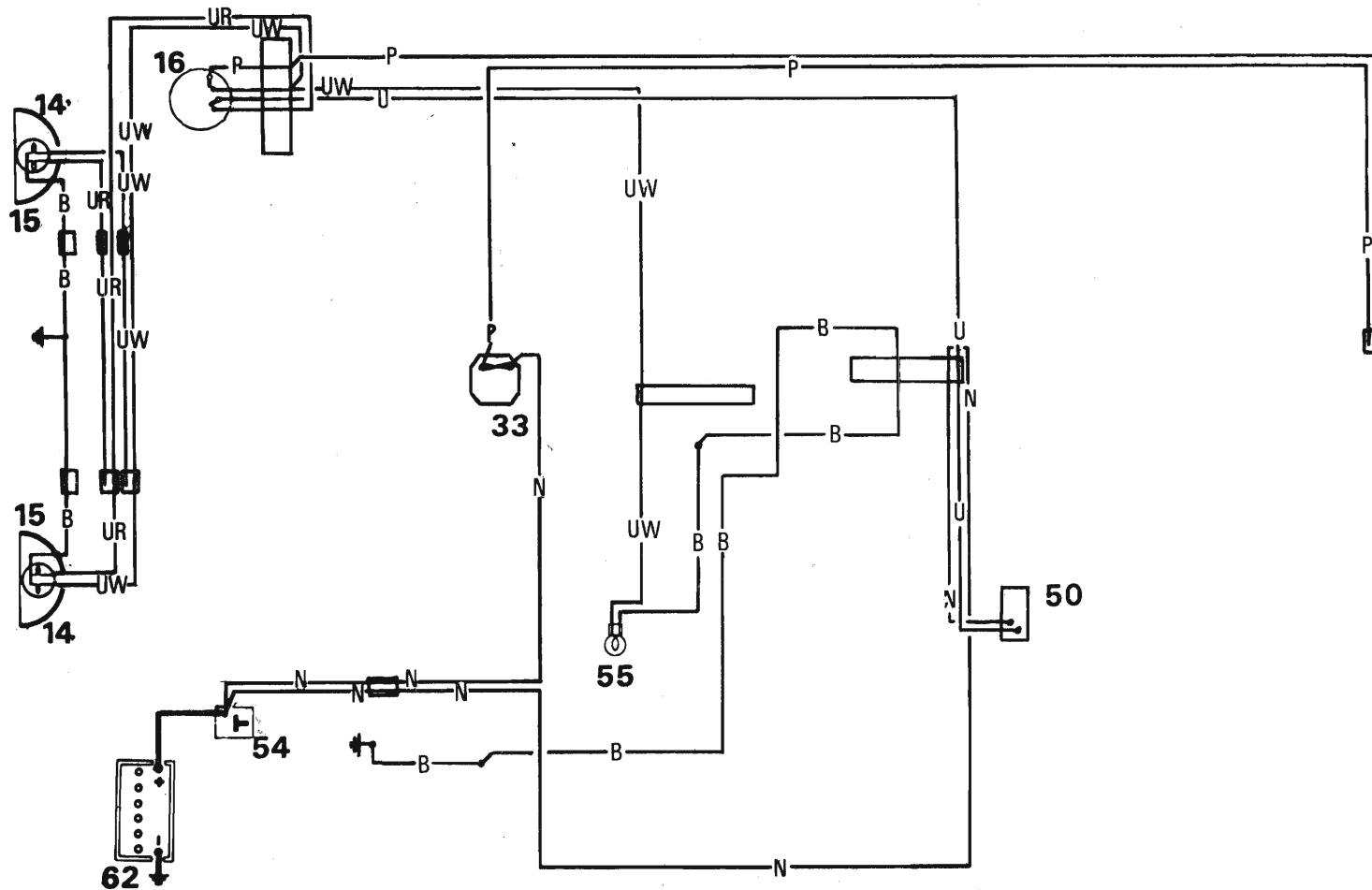


1978-79 M.G. MIDGET ELECTRICAL DIAGRAM



- 33 Fuse unit
- 36 Ignition starter switch
- 54 Starter solenoid
- 62 Battery

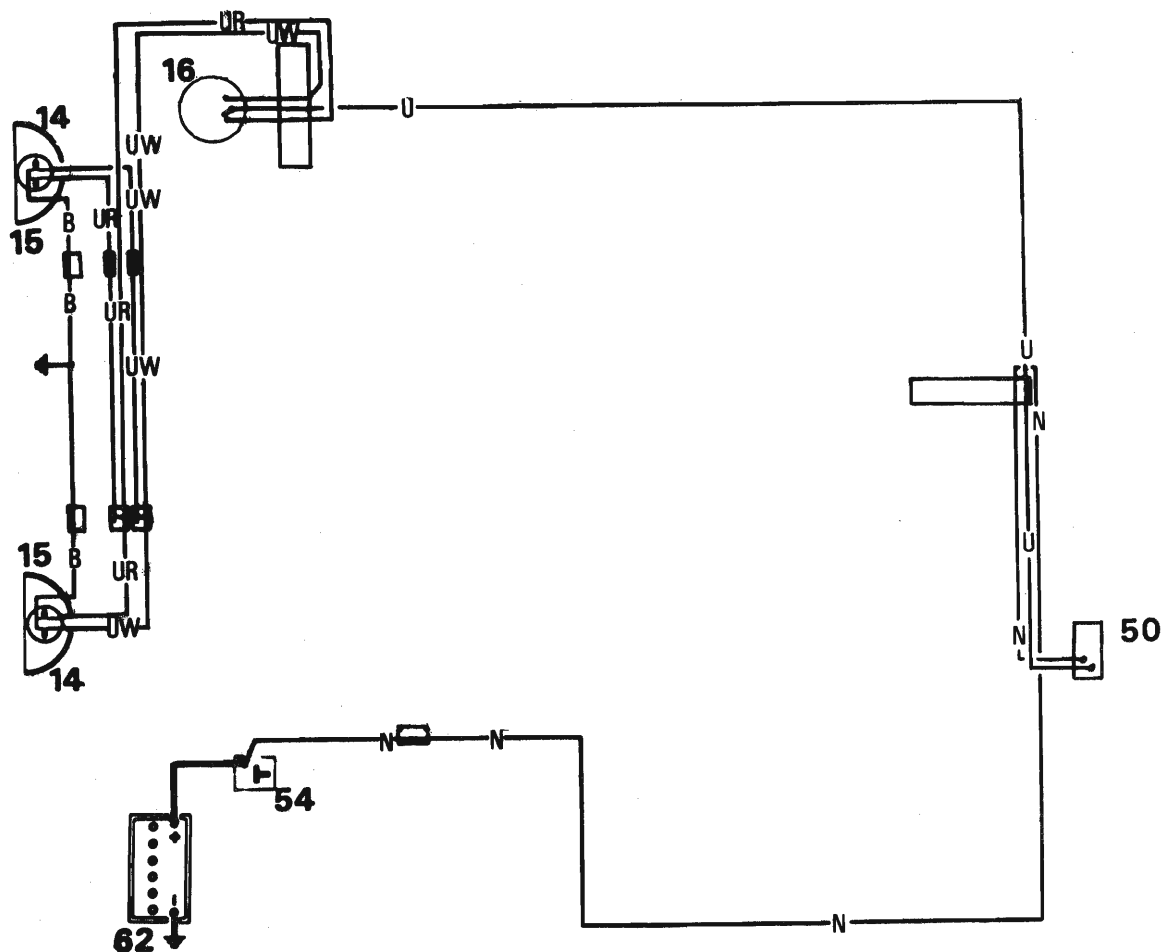
IGNITION FEED CIRCUIT



- 14 Headlamp main beam
- 15 Headlamp dip beam
- 16 Direction indicator switch
- 33 Fuse unit
- 50 Lighting switch

- 54 Starter solenoid
- 55 Headlamp main beam warning lamp
- 62 Battery

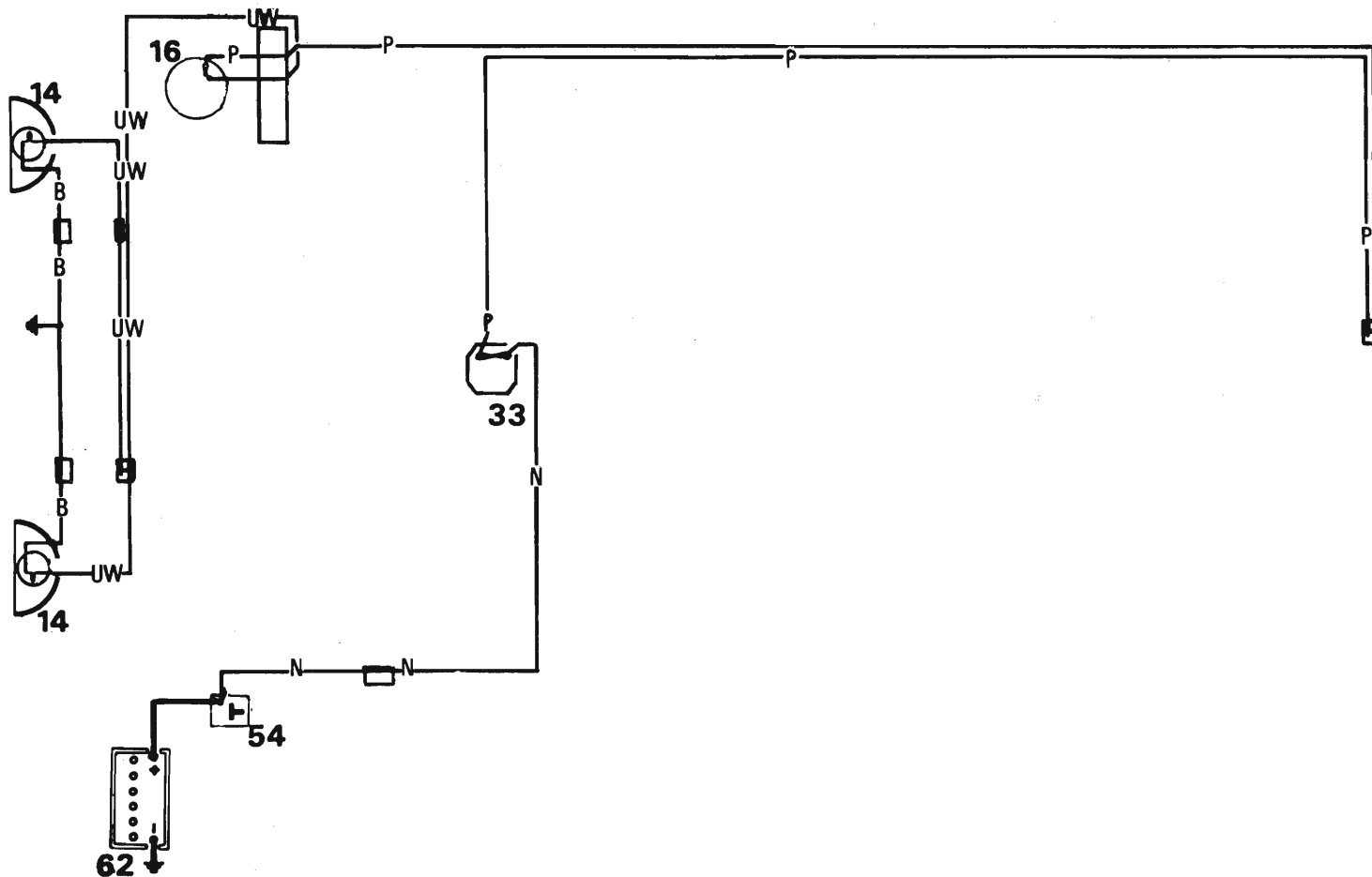
HEADLIGHT CIRCUITS



- 14 Headlamp main beam
- 15 Headlamp dip beam
- 16 Direction indicator switch
- 33 Fuse unit
- 50 Lighting switch

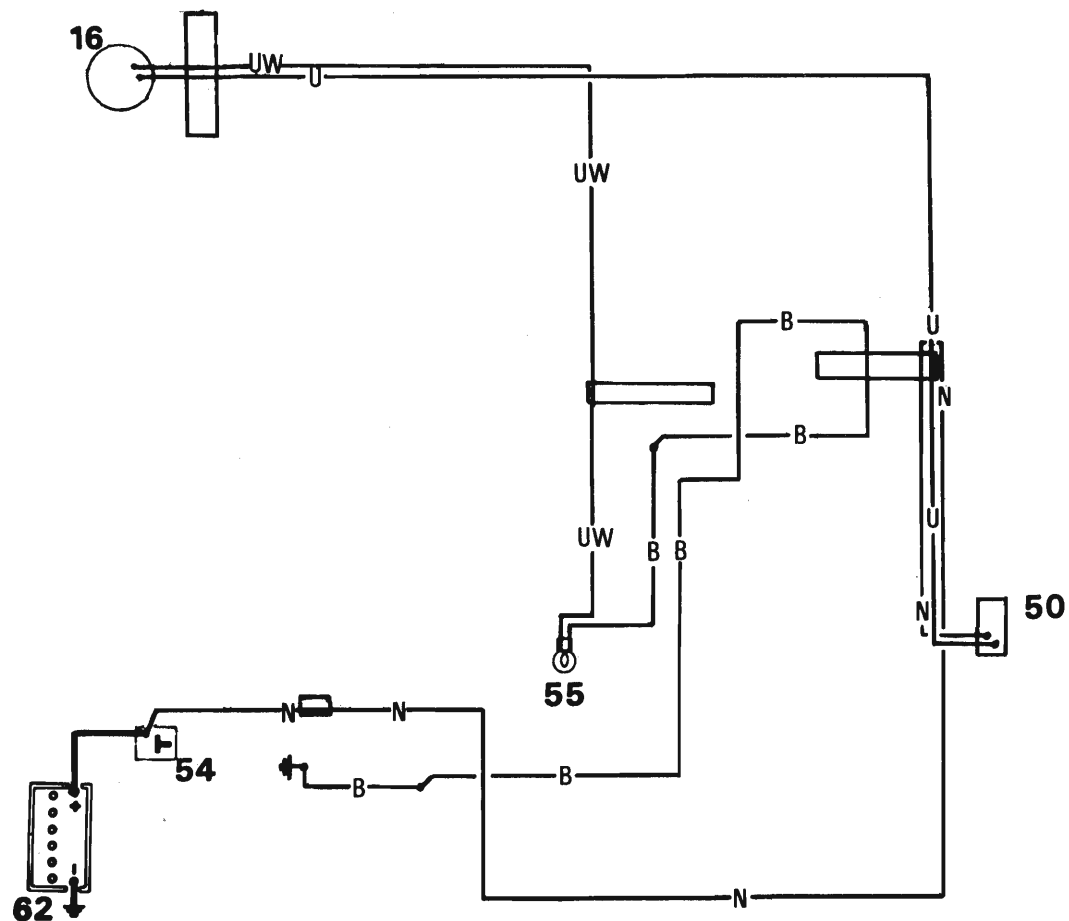
- 54 Starter solenoid
- 62 Battery

HEADLIGHTS



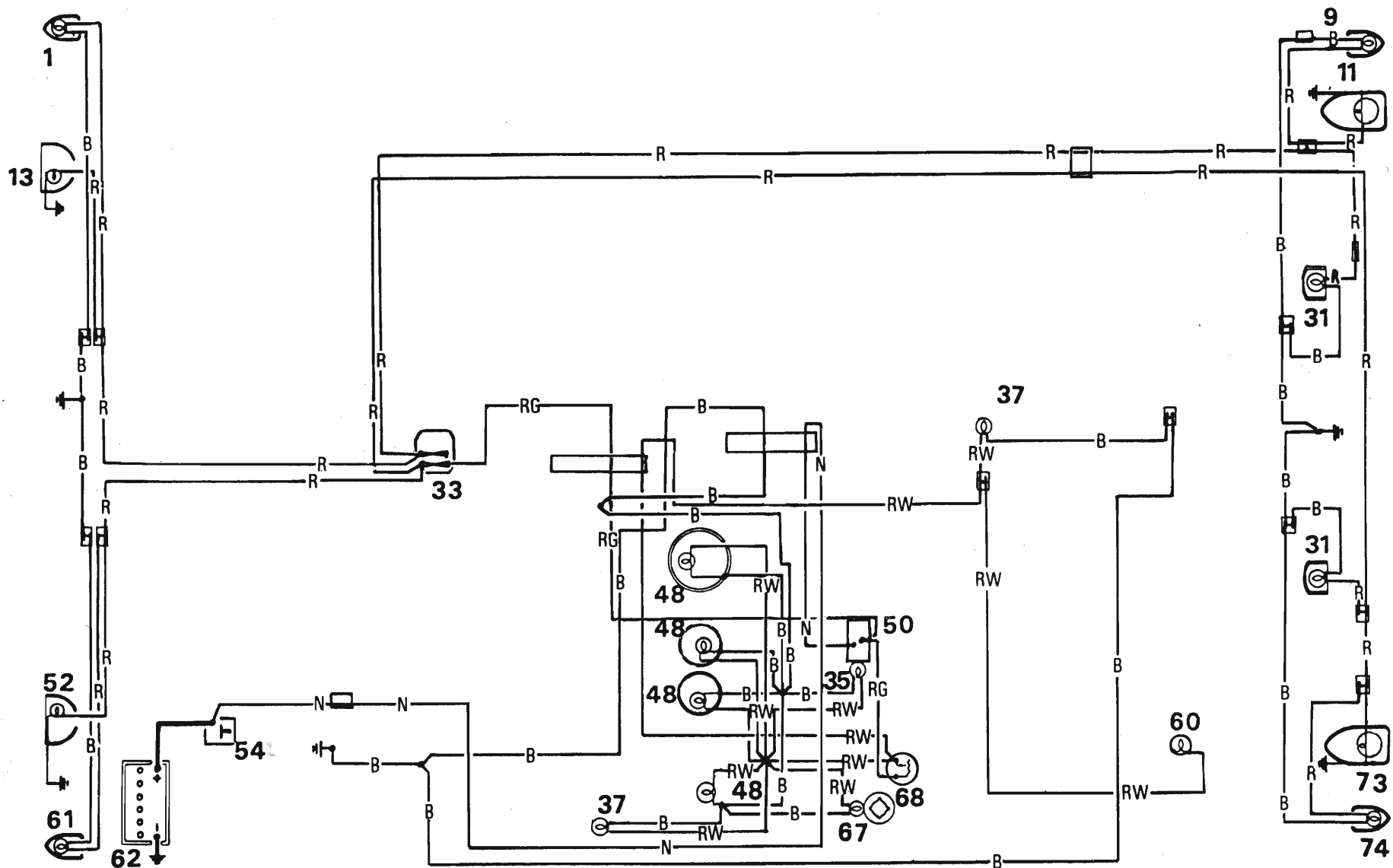
- 14 Headlamp main beam
- 16 Direction indicator switch
- 33 Fuse unit
- 54 Starter solenoid
- 62 Battery

HIGH BEAM FLASHER



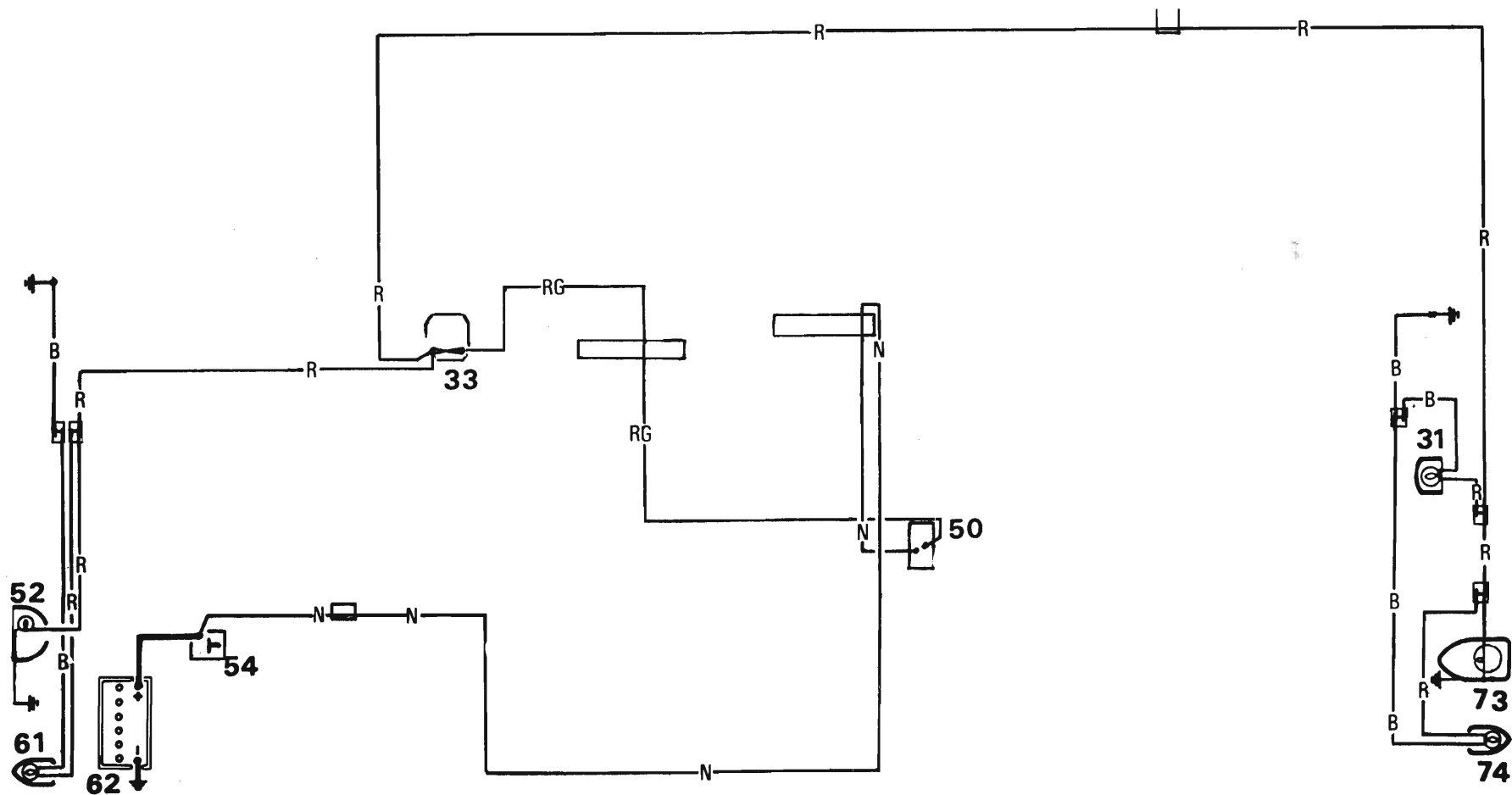
- 16 Direction indicator switch
- 50 Lighting switch
- 54 Starter solenoid
- 55 Headlamp main beam warning lamp
- 62 Battery

HIGH BEAM WARNING LIGHT



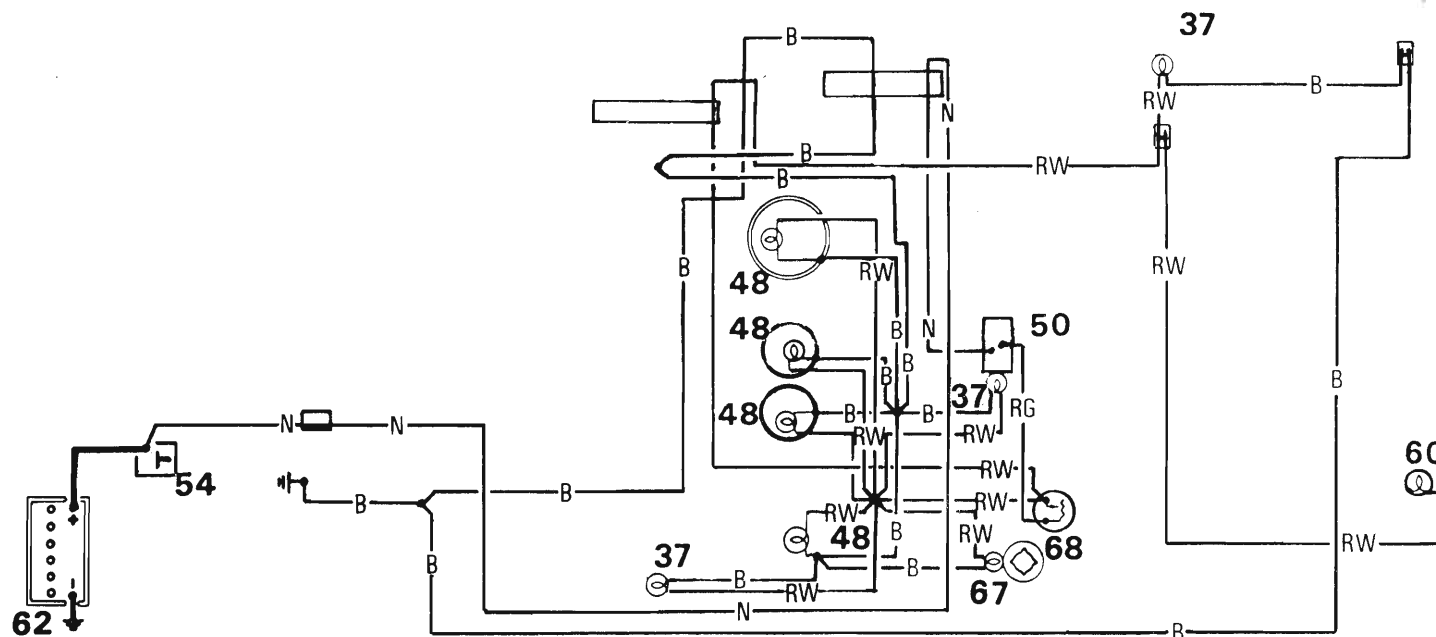
- | | | |
|-----------------------------------|--------------------------------|------------------------|
| 1 R.H. front side-marker lamp | 33 Fuse unit | 62 Battery |
| 9 R.H. rear side-marker lamp | 50 Lighting switch | 67 Heater control lamp |
| 11 R.H. tail lamp | 52 L.H. parking lamp | 68 Panel lamp switch |
| 13 R.H. parking lamp | 54 Starter solenoid | |
| 31 Number-plate illumination lamp | 61 L.H. front side-marker lamp | |

RUNNING LIGHT CIRCUITS



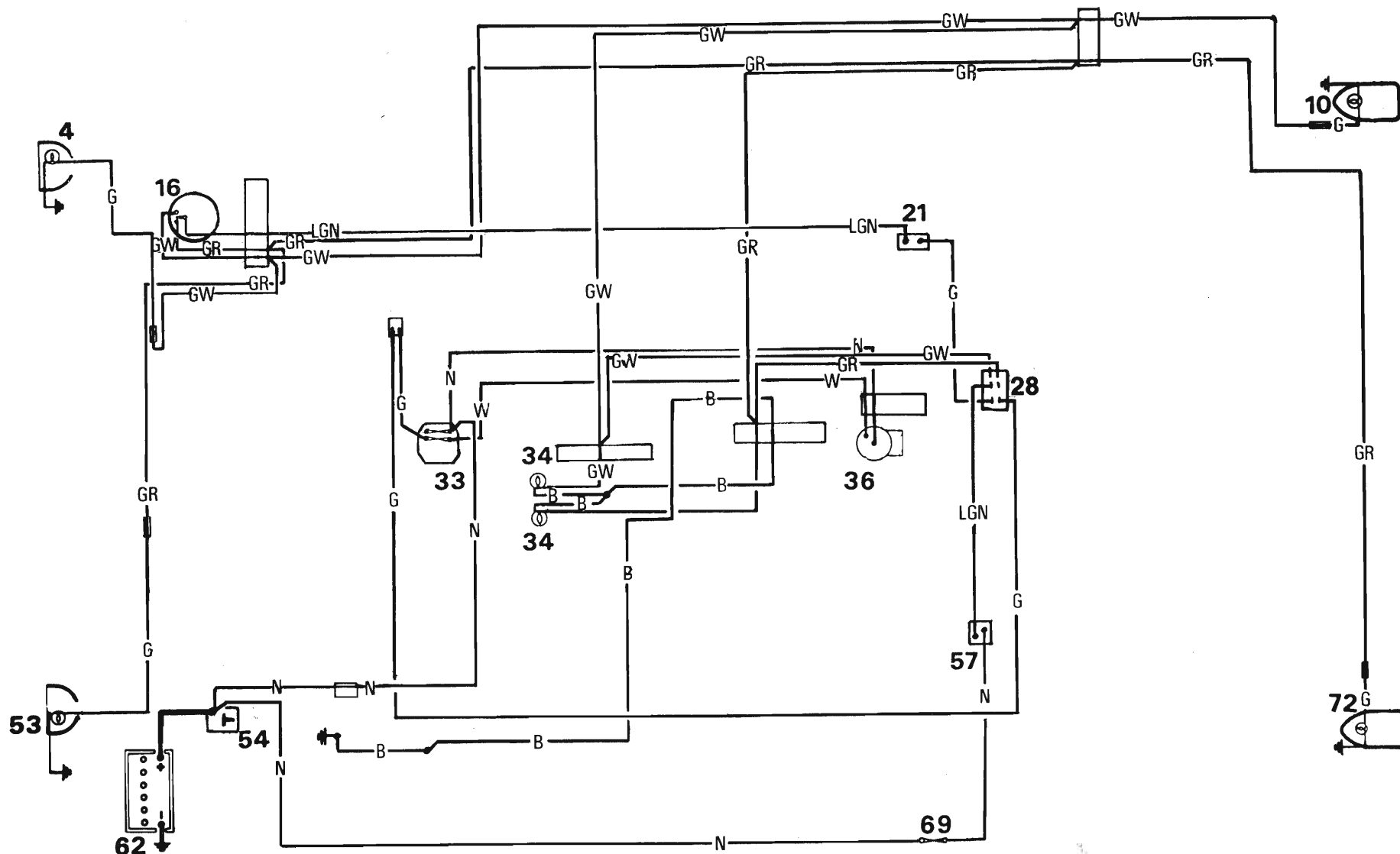
- | | | | |
|----|-----------------------------|----|----------------------------|
| 33 | Fuse unit | 62 | Battery |
| 50 | Lighting switch | 73 | L.H. tail lamp |
| 52 | L.H. parking lamp | 74 | L.H. rear side-marker lamp |
| 54 | Starter solenoid | | |
| 61 | L.H. front side-marker lamp | | |

LEFT PARKING, TAIL & MARKER LIGHTS



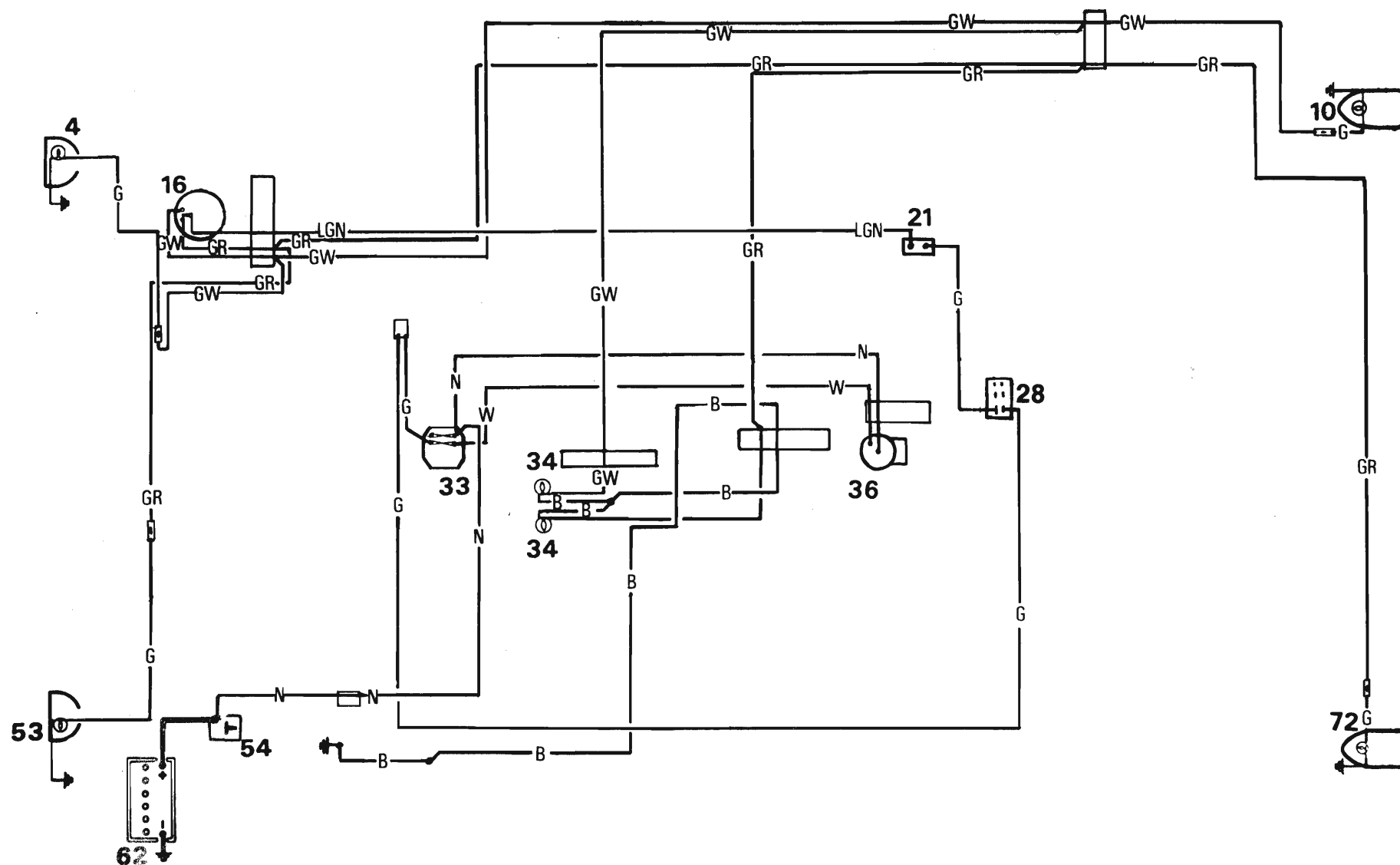
- | | | | |
|----|--------------------------|----|----------------------------------|
| 37 | Switch illumination lamp | 60 | Cigar-lighter illumination lamp |
| 48 | Panel lamp | 62 | Battery |
| 50 | Lighting switch | 67 | Heater control illumination lamp |
| 54 | Starter solenoid | 68 | Panel lamp switch |

PANEL LIGHTS



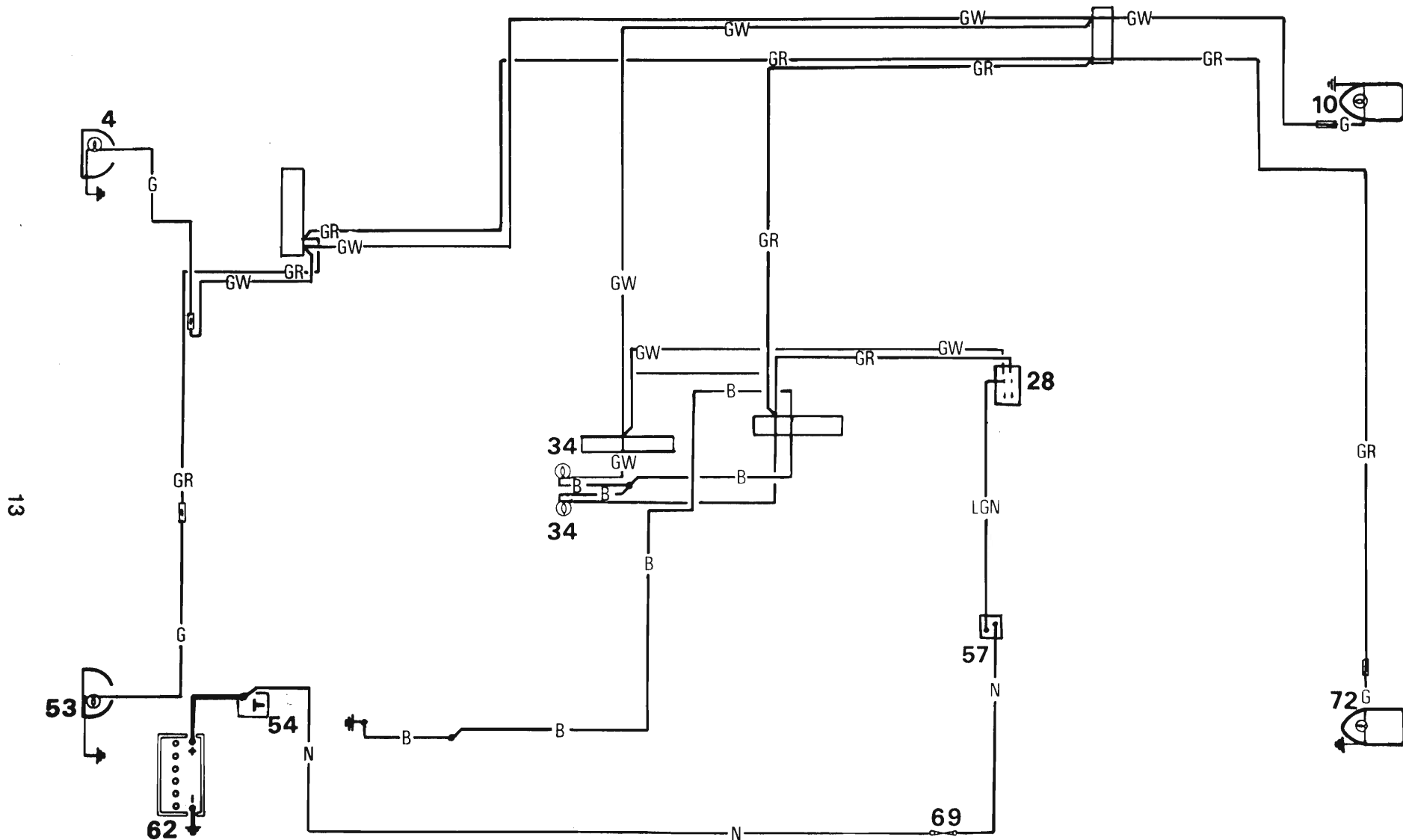
- | | |
|-------------------------------------|---------------------------------|
| 4 R.H. front flasher lamp | 28 Hazard warning switch |
| 10 R.H. rear flasher lamp | 53 L.H. front flasher lamp |
| 16 Direction indicator switch | 57 Hazard warning flasher unit |
| 21 Flasher unit | 69 Line fuse for hazard warning |
| 34 Direction indicator warning lamp | 72 L.H. rear flasher lamp |

TURN SIGNAL/HAZARD WARNING LIGHTS



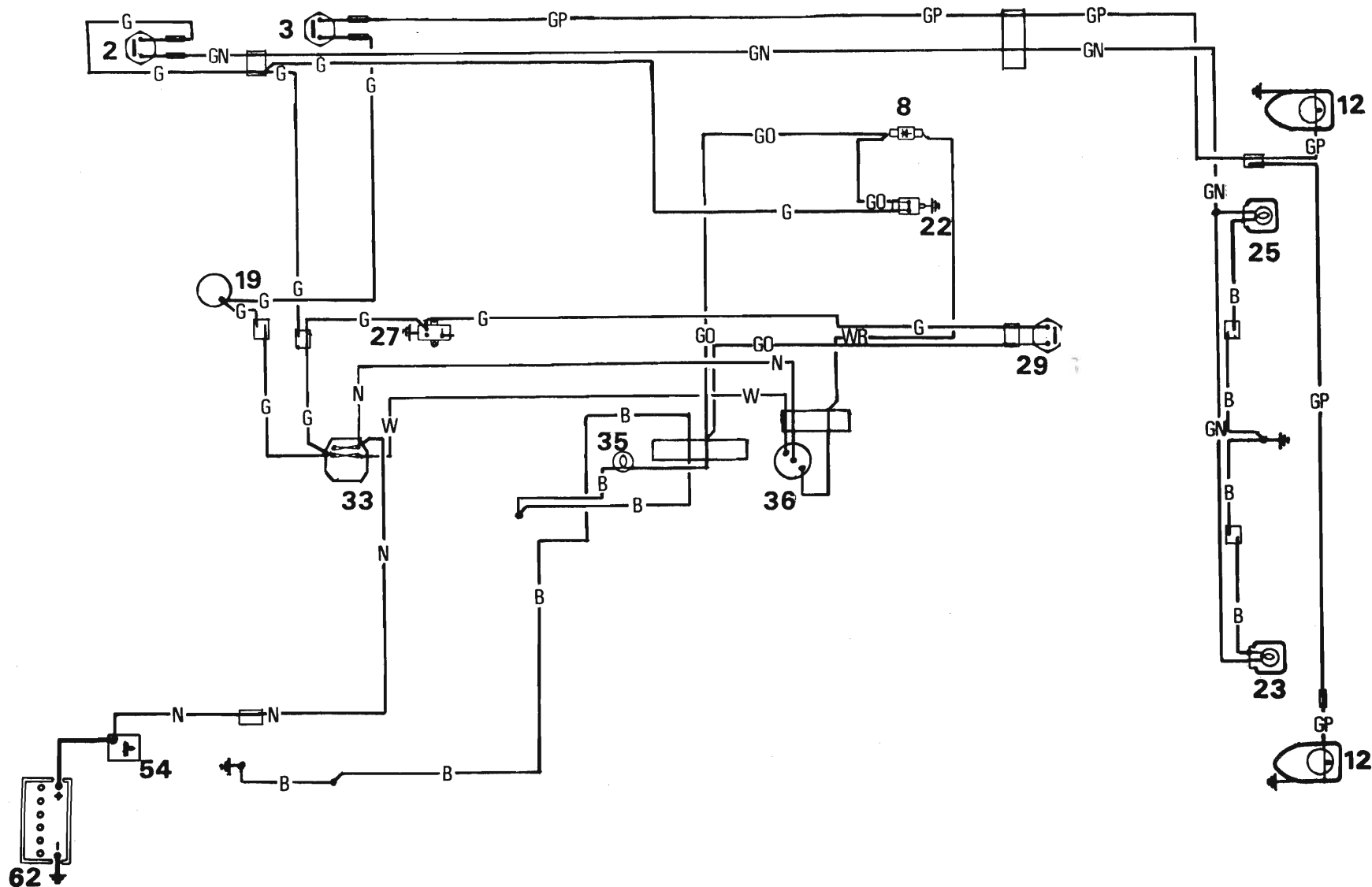
- | | |
|-------------------------------------|----------------------------|
| 4. R.H. Front Flasher lamp | 36 Ignition starter switch |
| 10 R.H. rear flasher lamp | 28 Hazard warning switch |
| 16 Direction indicator switch | 53 L.H. front flasher lamp |
| 21 Flasher unit | 54 Starter solenoid |
| 34 Direction indicator warning lamp | 72. L.H. rear flasher lamp |

TURN SIGNALS



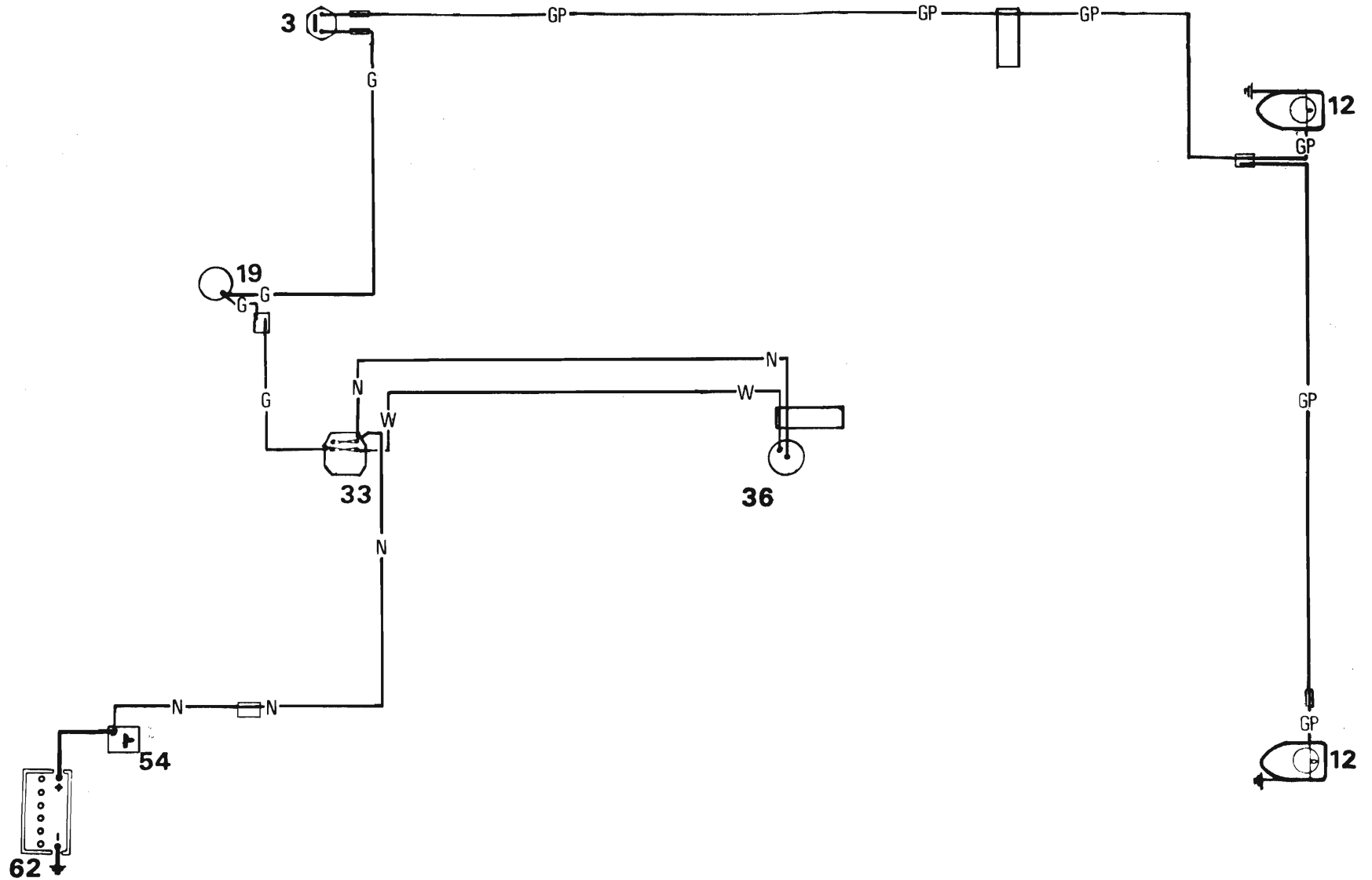
- | | |
|-------------------------------------|---------------------------------|
| 4 R.H. front flasher lamp | 54 Starter solenoid |
| 10 R.H. rear flasher lamp | 57 Hazard warning flasher unit |
| 34 Direction indicator warning lamp | 62 Battery |
| 28 Hazard warning switch | 69 Line fuse for hazard warning |
| 53 L.H. front flasher lamp | 72 L.H. rear flasher lamp |

HAZARD WARNING



- | | |
|---------------------------|----------------------------------|
| 2 Reverse lamp switch | 22 Brake pressure failure switch |
| 3 Stop lamp switch | 23 Time delay buzzer |
| 8 Diode for brake warning | 25 Reverse lamp |
| 12 Stop lamp | 27 Instrument voltage stabilizer |
| 19 Windscreen washer pump | 29 Hand brake switch |
| | 35 Hand brake warning lamp |

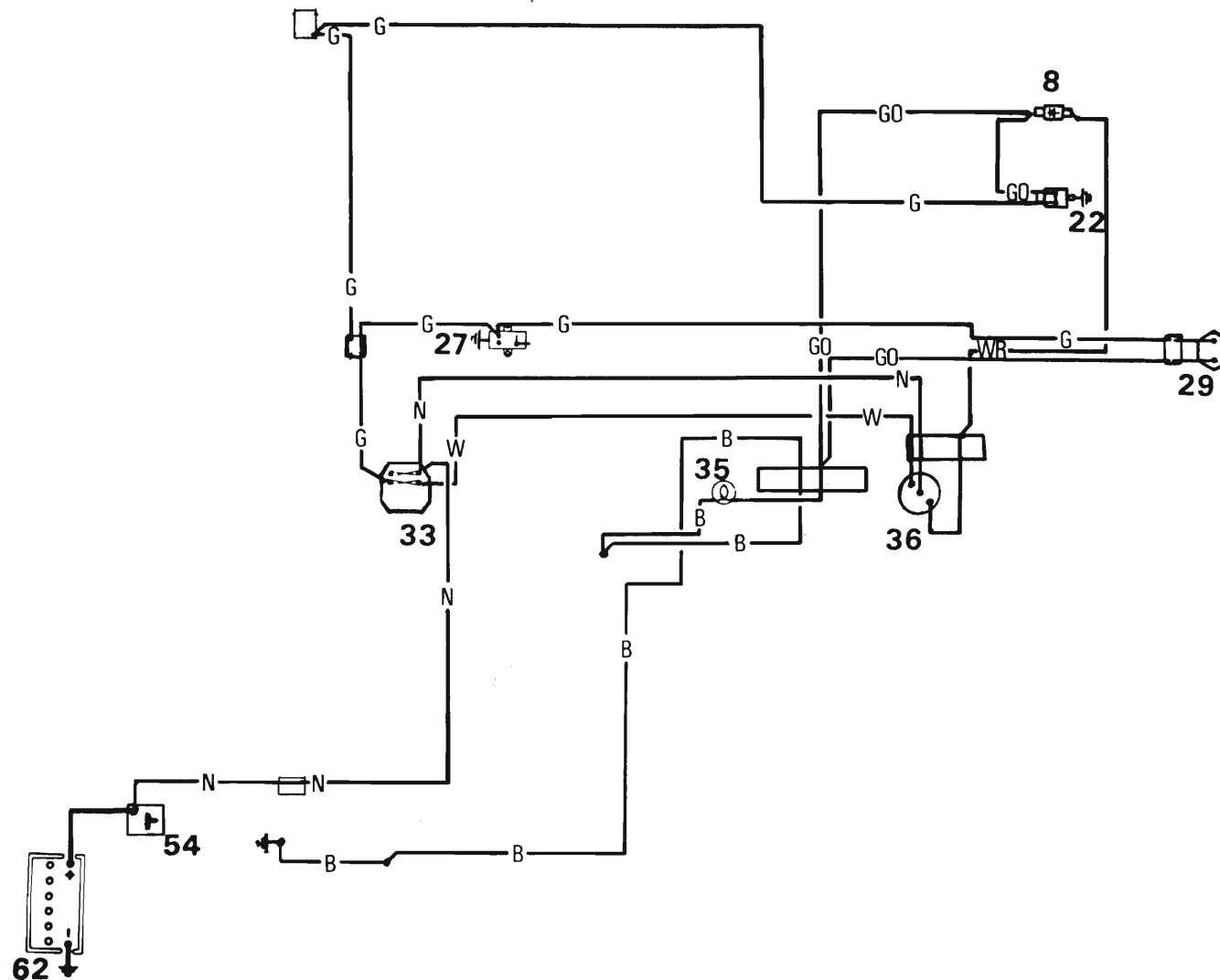
BRAKE, BRAKE WARNING & REVERSE LIGHTS



- 3 Stop lamp switch
- 12 Stop lamp
- 19 Windscreen washer pump
- 33 Fuse unit
- 36 Ignition starter switch

- 54 Starter solenoid
- 62 Battery

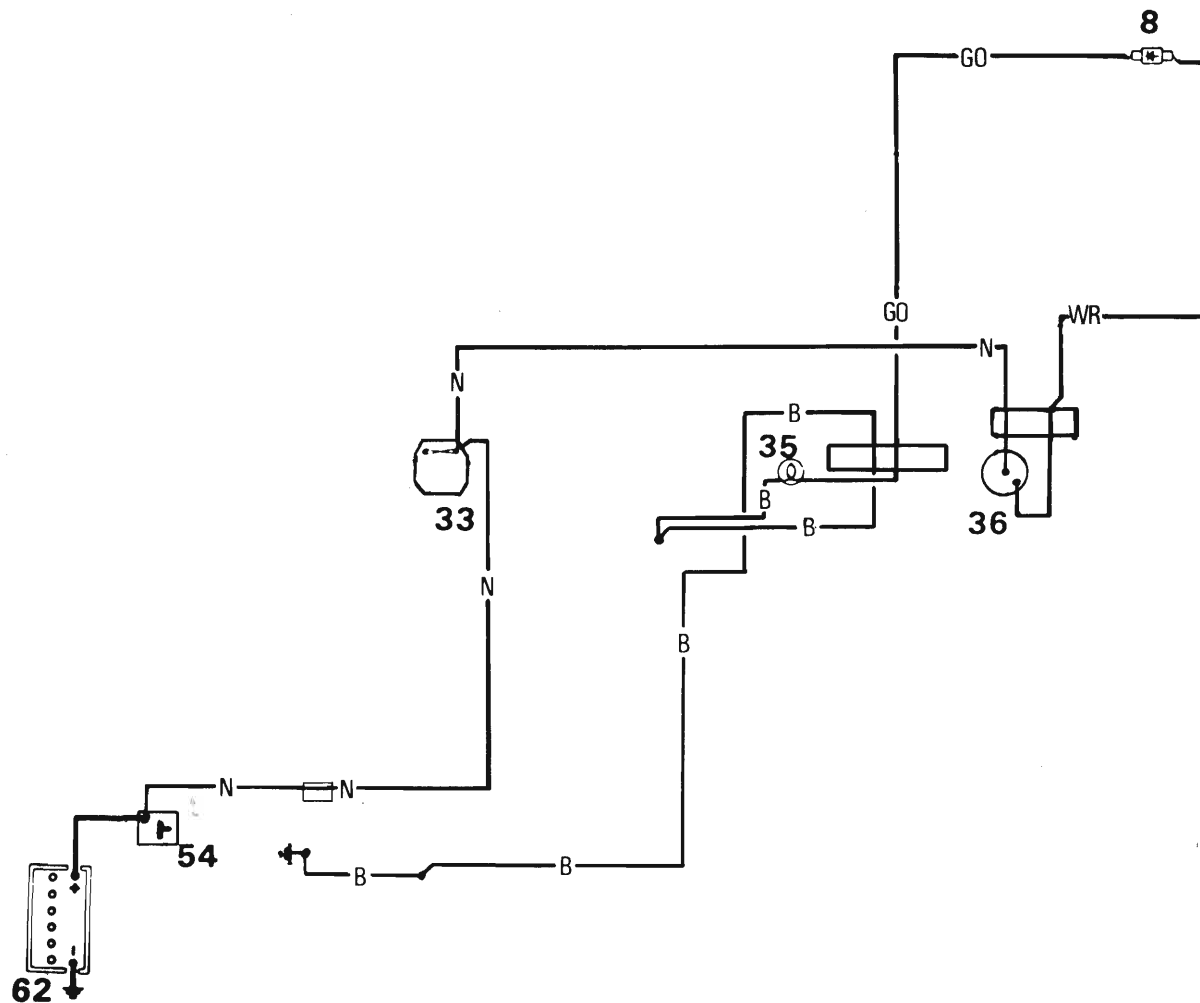
BRAKE LIGHTS



- 8 Diode for brake warning
- 22 Brake pressure failure switch
- 27 Instrument voltage stabilizer
- 29 Hand brake switch
- 33 Fuse unit

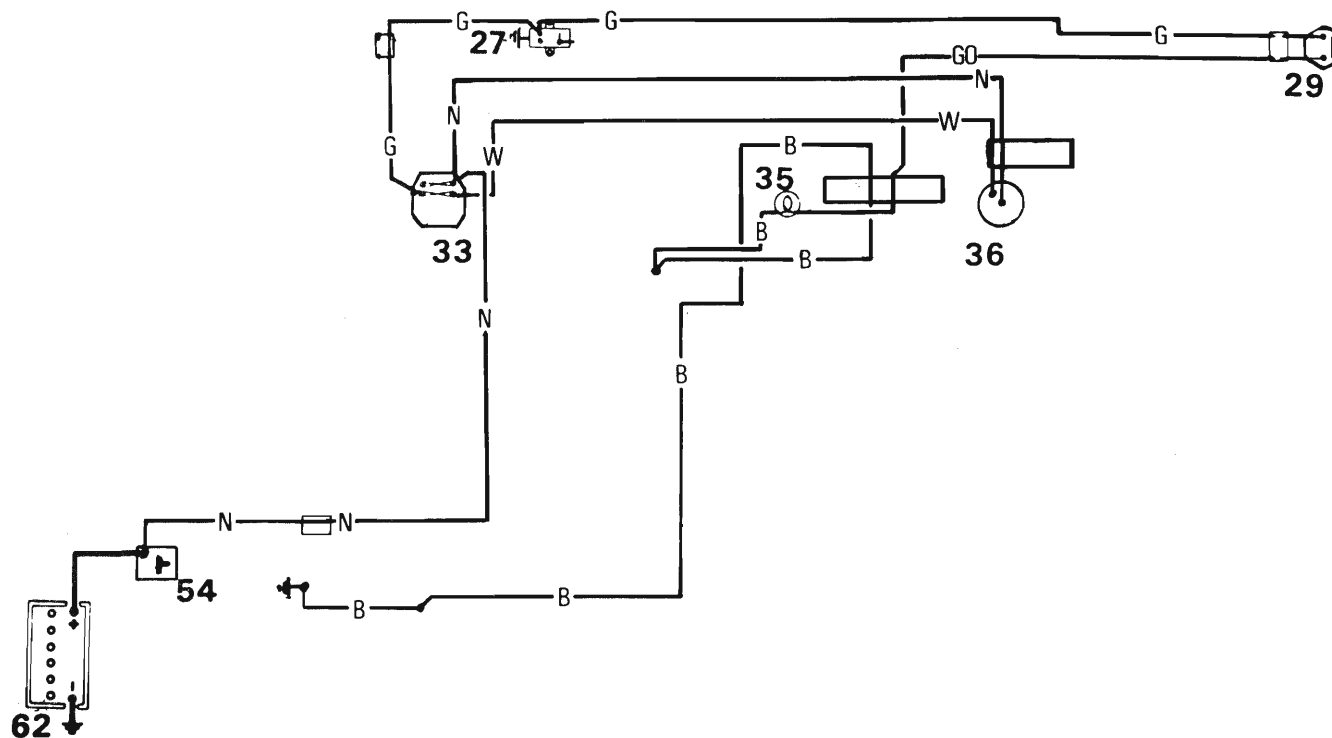
- 35 Hand brake warning lamp
- 36 Ignition starter switch
- 54 Starter solenoid
- 62 Battery

BRAKE WARNING LIGHT



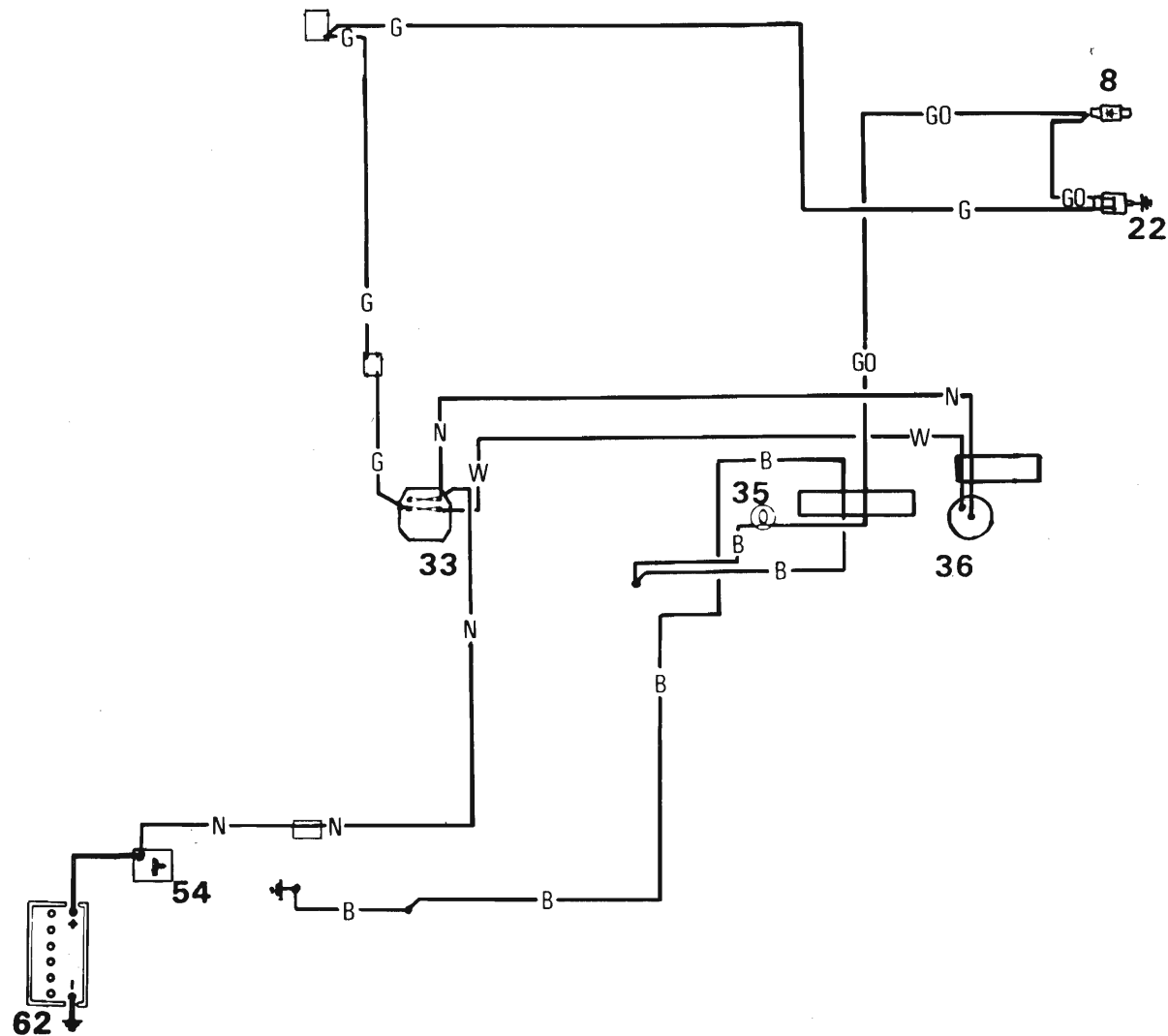
- 8 Diode for brake warning
- 33 Fuse unit
- 35 Hand brake warning lamp
- 36 Ignition starter switch
- 54 Starter solenoid
- 62 Battery

IGNITION TO START



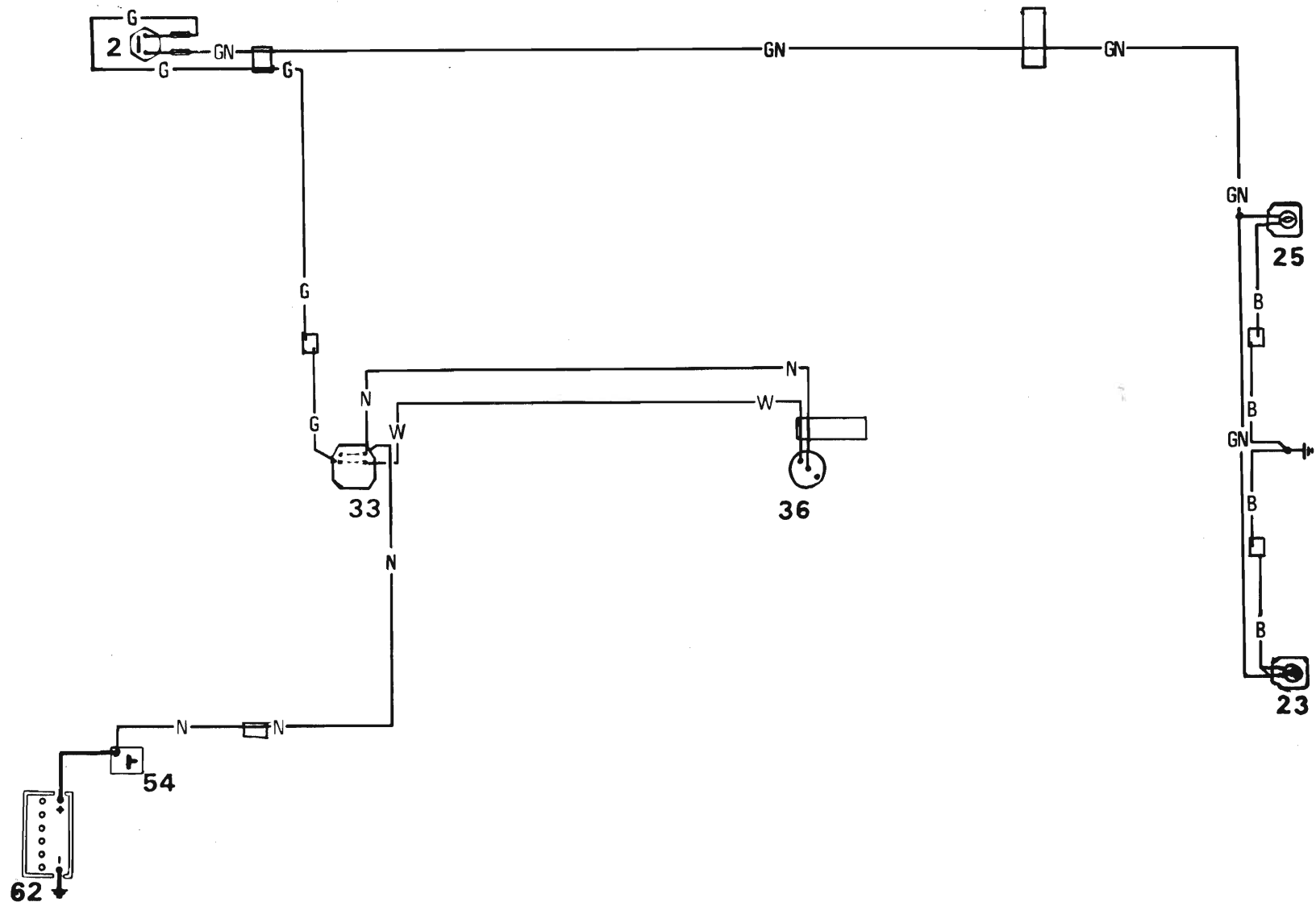
- | | | | |
|----|-------------------------------|----|------------------|
| 27 | Instrument voltage stabilizer | 54 | Starter solenoid |
| 29 | Hand brake switch | 62 | Battery |
| 33 | Fuse unit | | |
| 35 | Hand brake warning lamp | | |
| 36 | Ignition starter switch | | |

HAND BRAKE



- | | |
|----------------------------------|---------------------|
| 8 Diode for brake warning | 54 Starter solenoid |
| 22 Brake pressure failure switch | 62 Battery |
| 33 Fuse unit | |
| 35 Hand brake warning lamp | |
| 36 Ignition starter switch | |

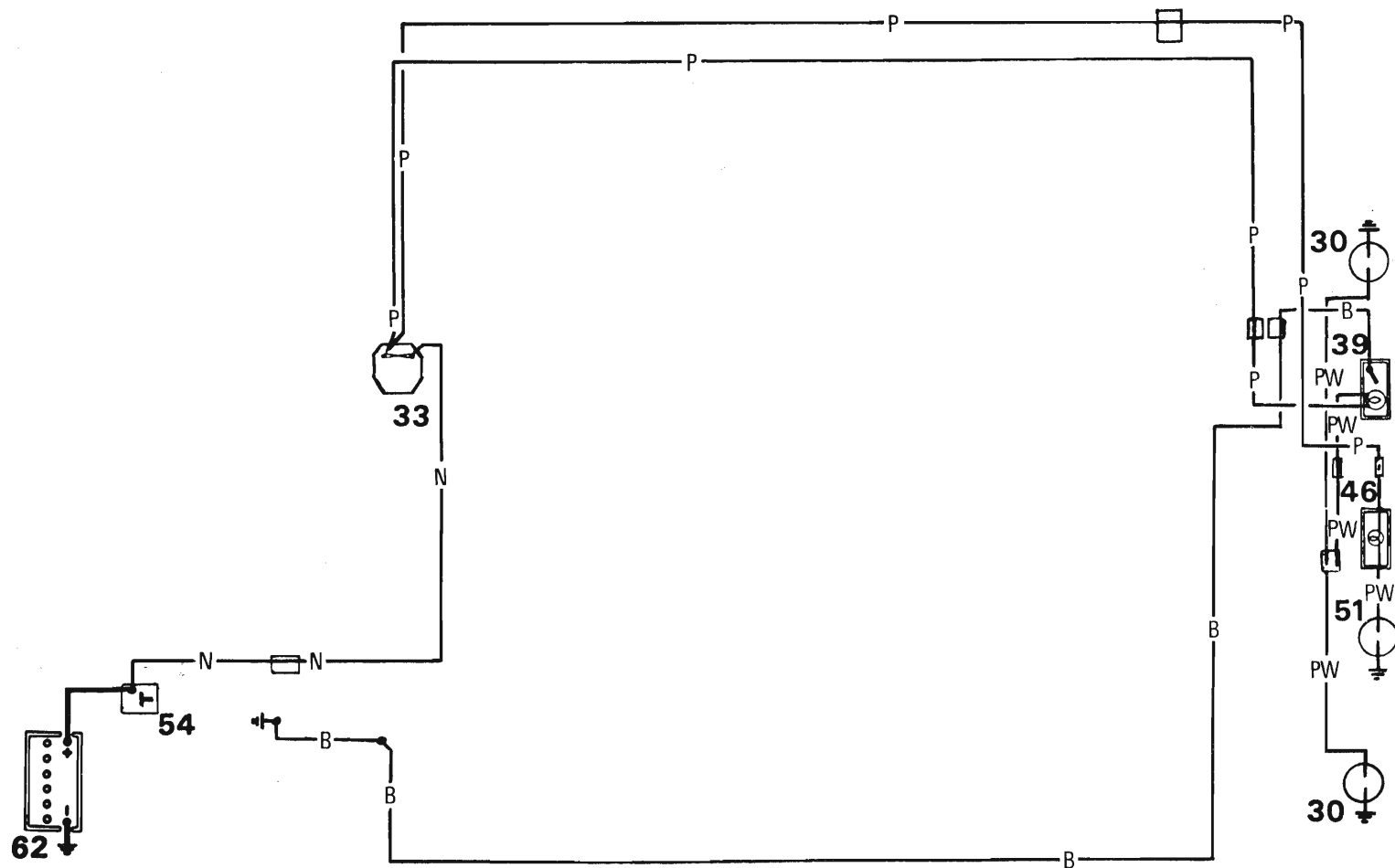
BRAKE FAILURE



- 2 Reverse lamp switch
- 23 Time delay buzzer
- 25 Reverse lamp
- 33 Fuse unit
- 36 Ignition starter switch

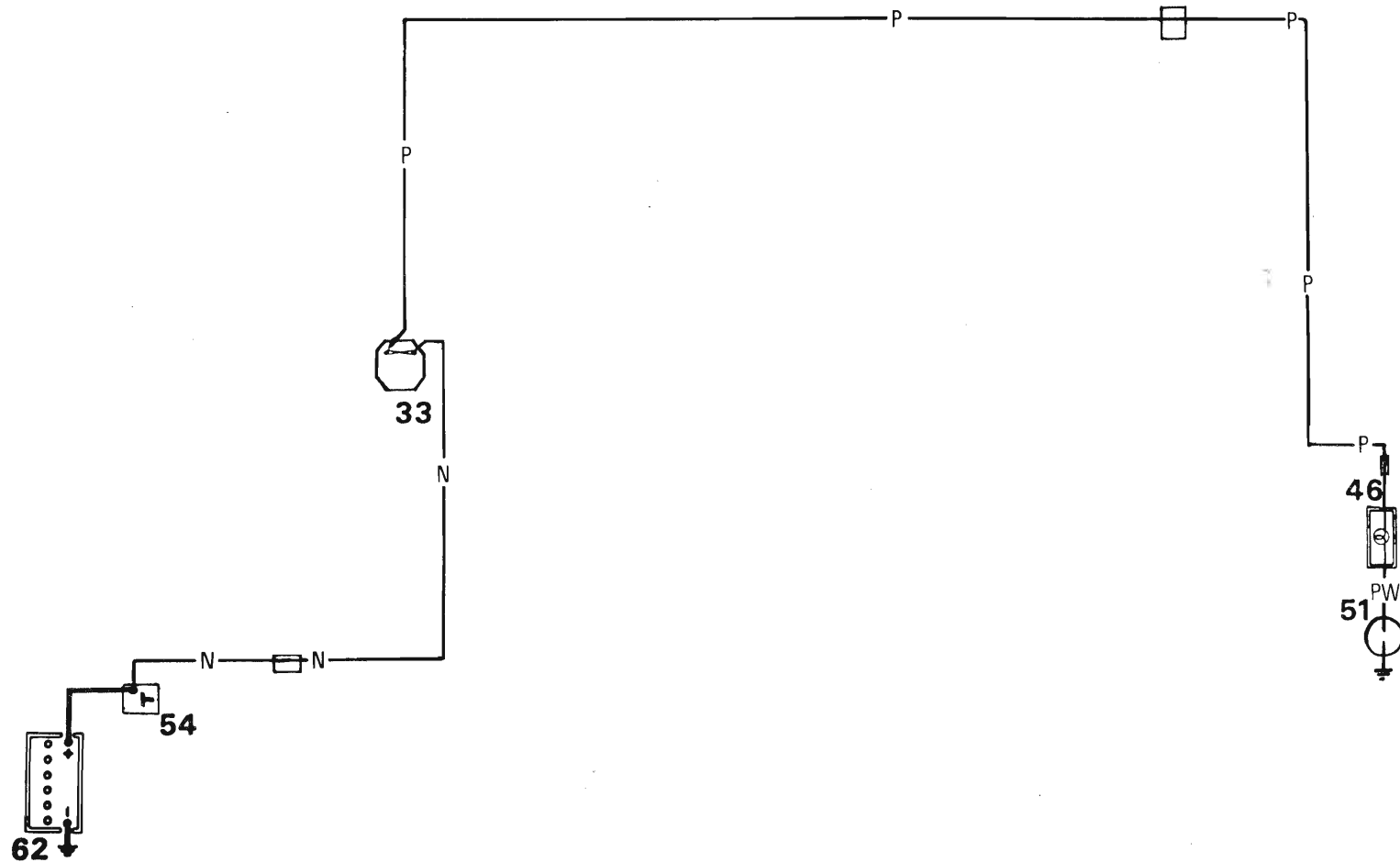
- 54 Starter solenoid
- 62 Battery

REVERSE LIGHTS



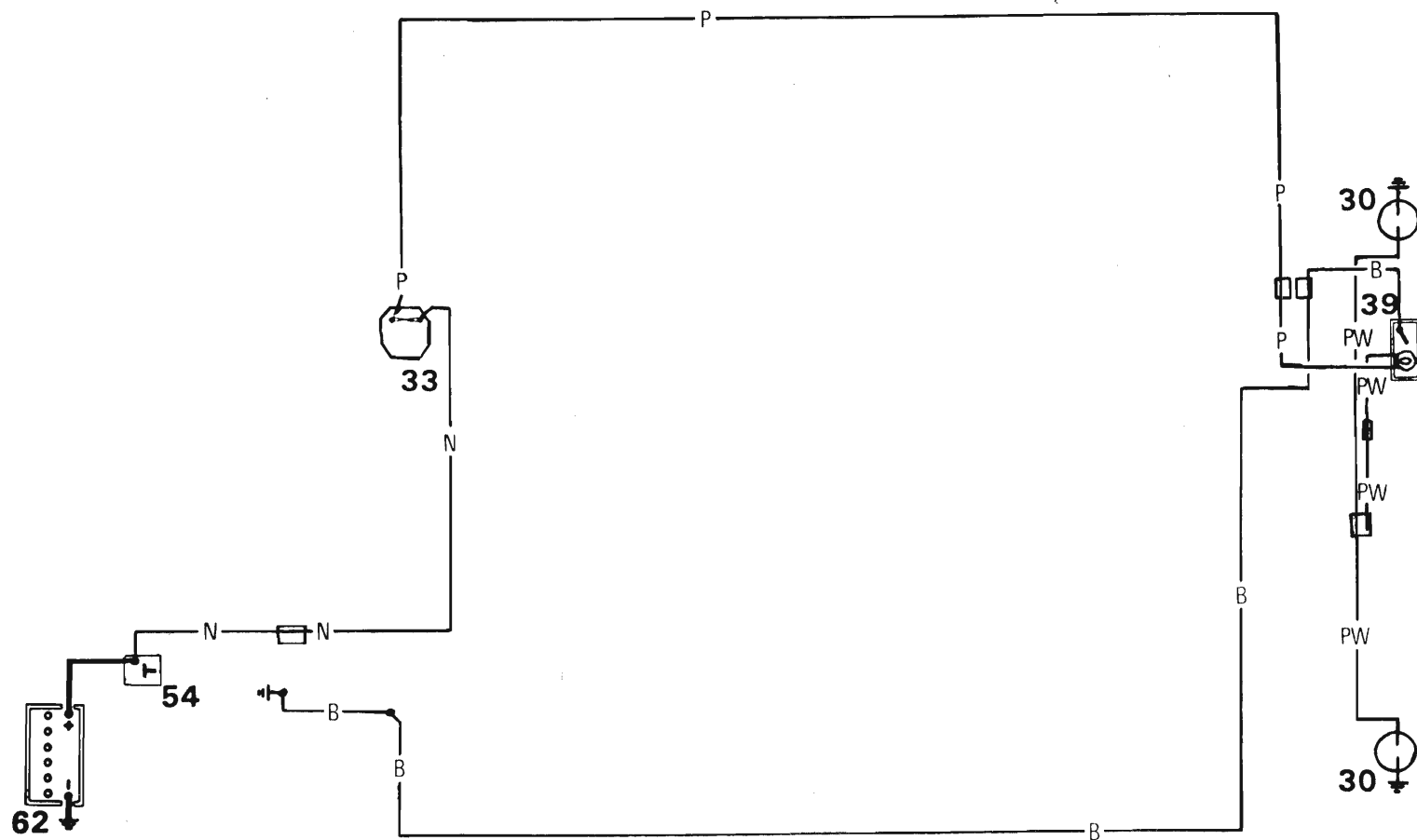
- | | | | |
|----|------------------------------------|----|------------------|
| 30 | Interior courtesy lamp door switch | 54 | Starter solenoid |
| 33 | Fuse unit | 62 | Battery |
| 39 | Interior courtesy lamp | | |
| 46 | Luggage compartment lamp | | |
| 51 | Luggage compartment lamp switch | | |

TRUNK, INTERIOR LIGHT CIRCUITS



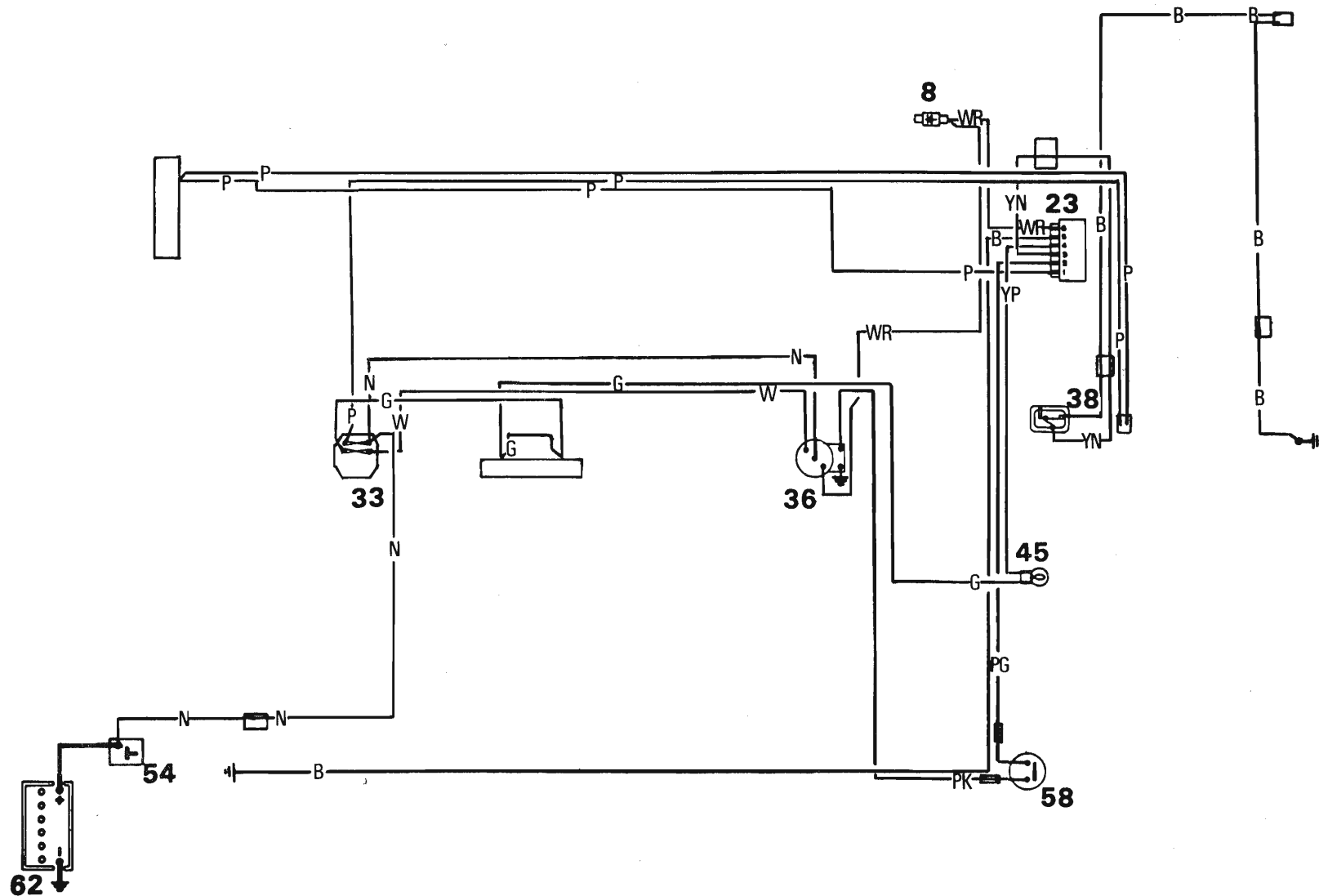
- 33 Fuse unit
- 46 Luggage compartment lamp
- 51 Luggage compartment lamp switch
- 54 Starter solenoid
- 62 Battery

TRUNK LIGHT



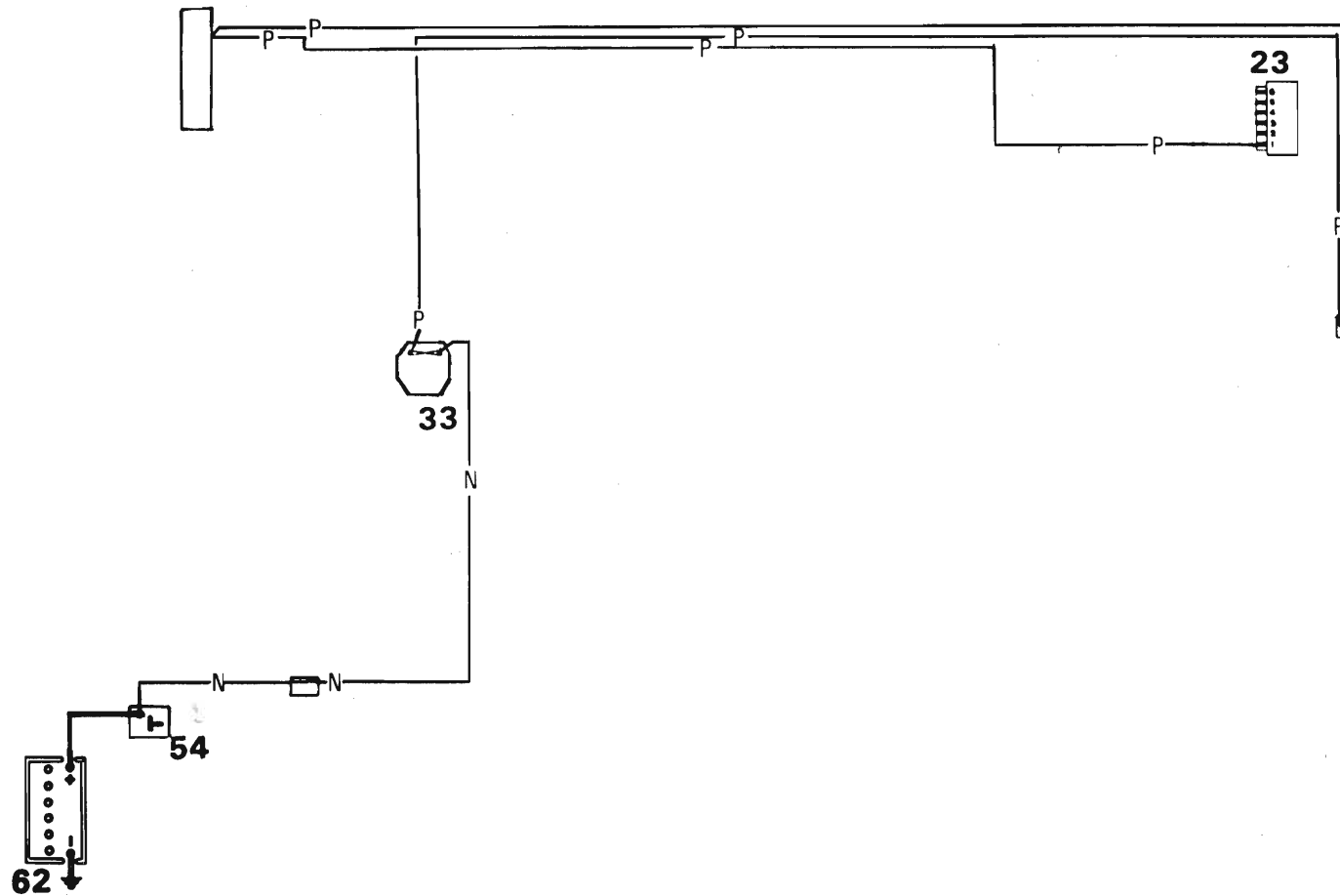
- 30 Interior courtesy lamp door switch
- 33 Fuse unit
- 39 Interior courtesy lamp
- 54 Starter solenoid
- 62 Battery

INTERIOR LIGHT



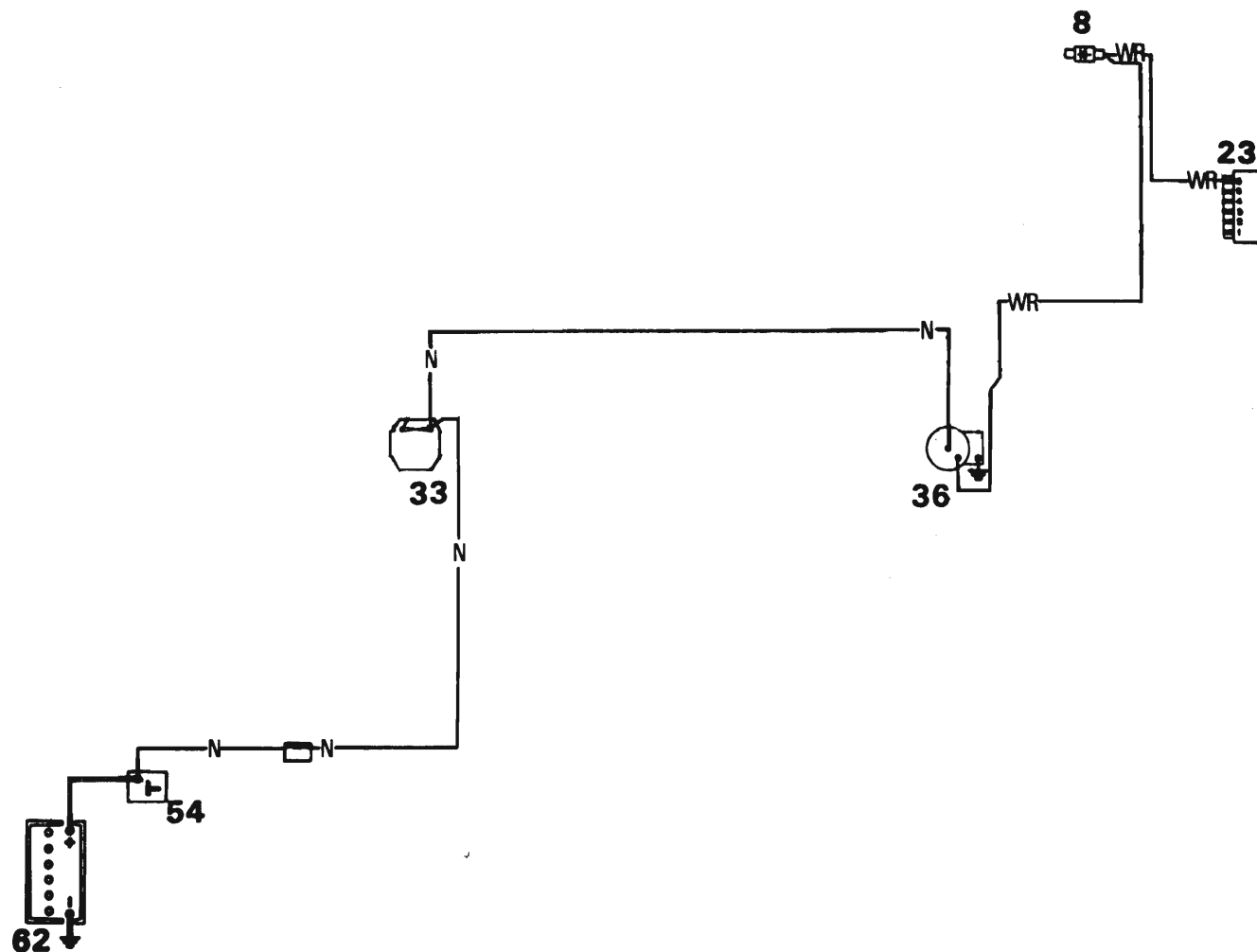
- | | |
|-------------------------------------|---------------------------------|
| 8 Diode for brake warning | 45 'FASTEN BELTS' warning lamp |
| 23 Time delay buzzer | 54 Starter solenoid |
| 33 Fuse unit | 58 Ignition key audible warning |
| 36 Ignition starter switch | door switch |
| 38 Driver's seat belt buckle switch | 62 Battery |

TIME DELAY CIRCUITS



- 23 Time delay buzzer
- 33 Fuse unit
- 54 Starter solenoid
- 62 Battery

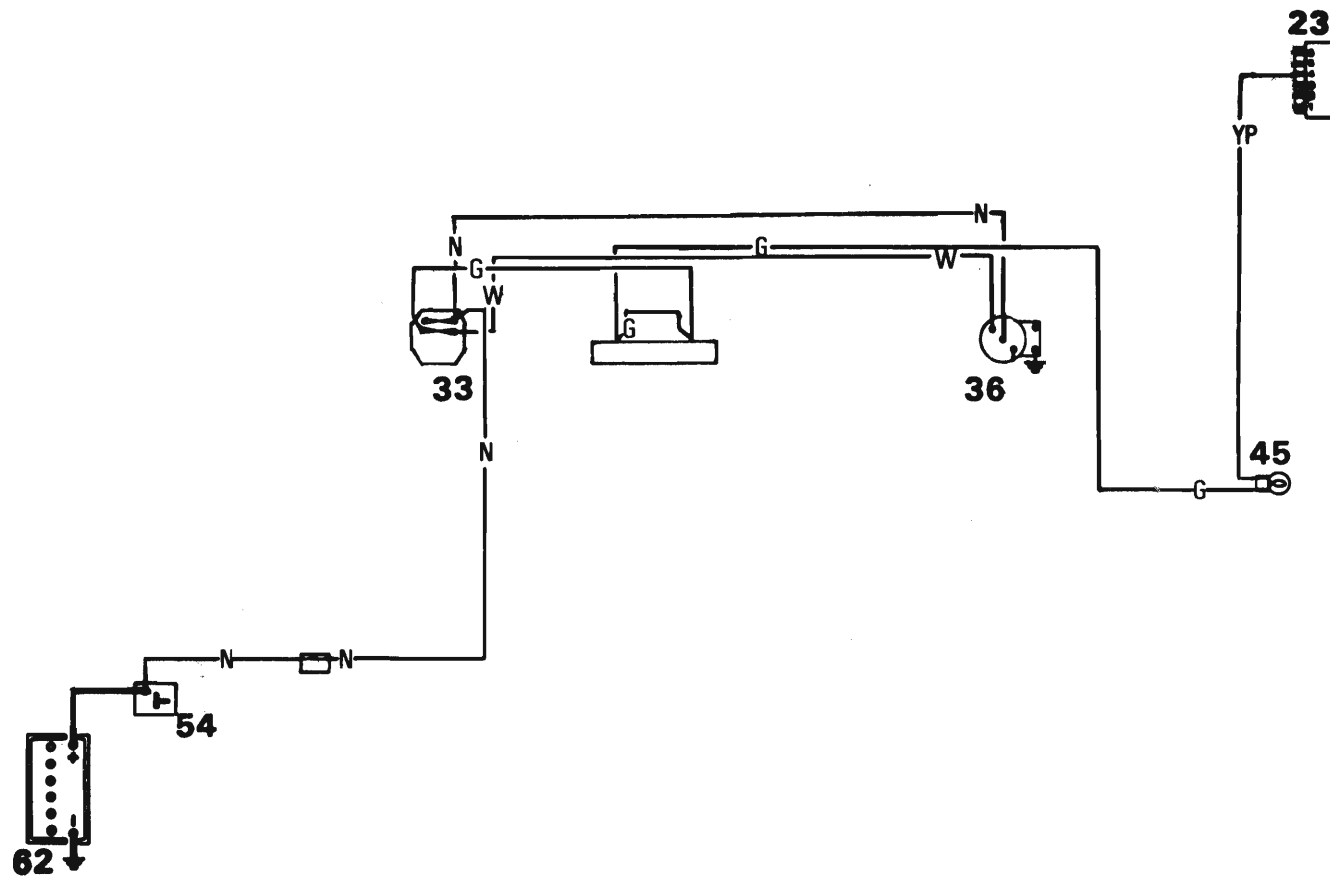
DIRECT TO BATTERY



- 8 Diode for brake warning
- 23 Time delay buzzer
- 33 Fuse unit
- 36 Ignition starter switch
- 54 Starter solenoid

62 Battery

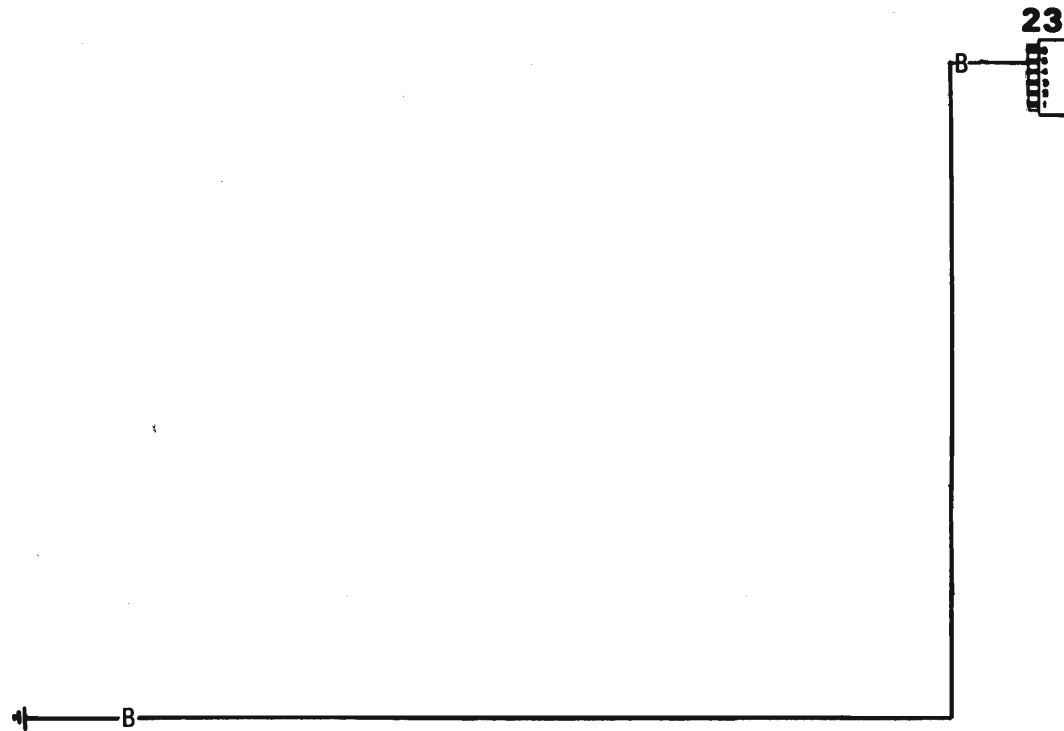
MOMENTARY IGNITION FEED



- | | | | |
|----|-----------------------------|----|---------|
| 23 | Time delay buzzer | 62 | Battery |
| 33 | Fuse unit | | |
| 36 | Ignition starter switch | | |
| 45 | 'FASTEN BELTS' warning lamp | | |
| 54 | Starter solenoid | | |

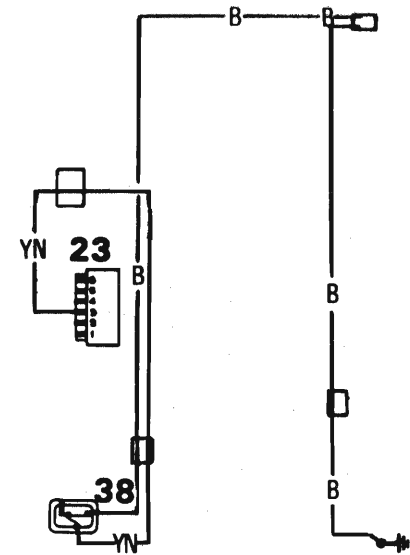
SEAT BELT WARNING

28



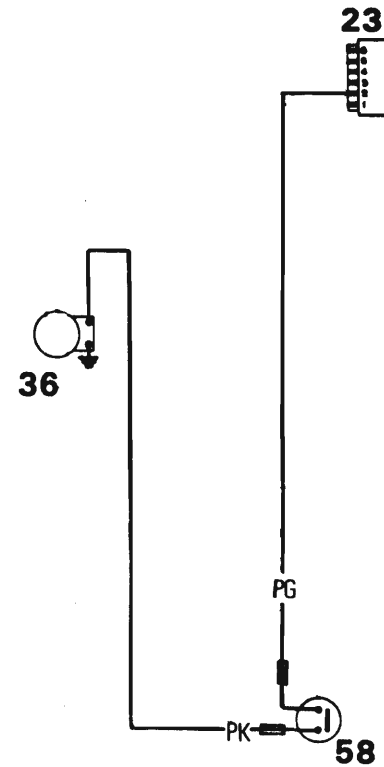
23 Time delay buzzer

GROUND



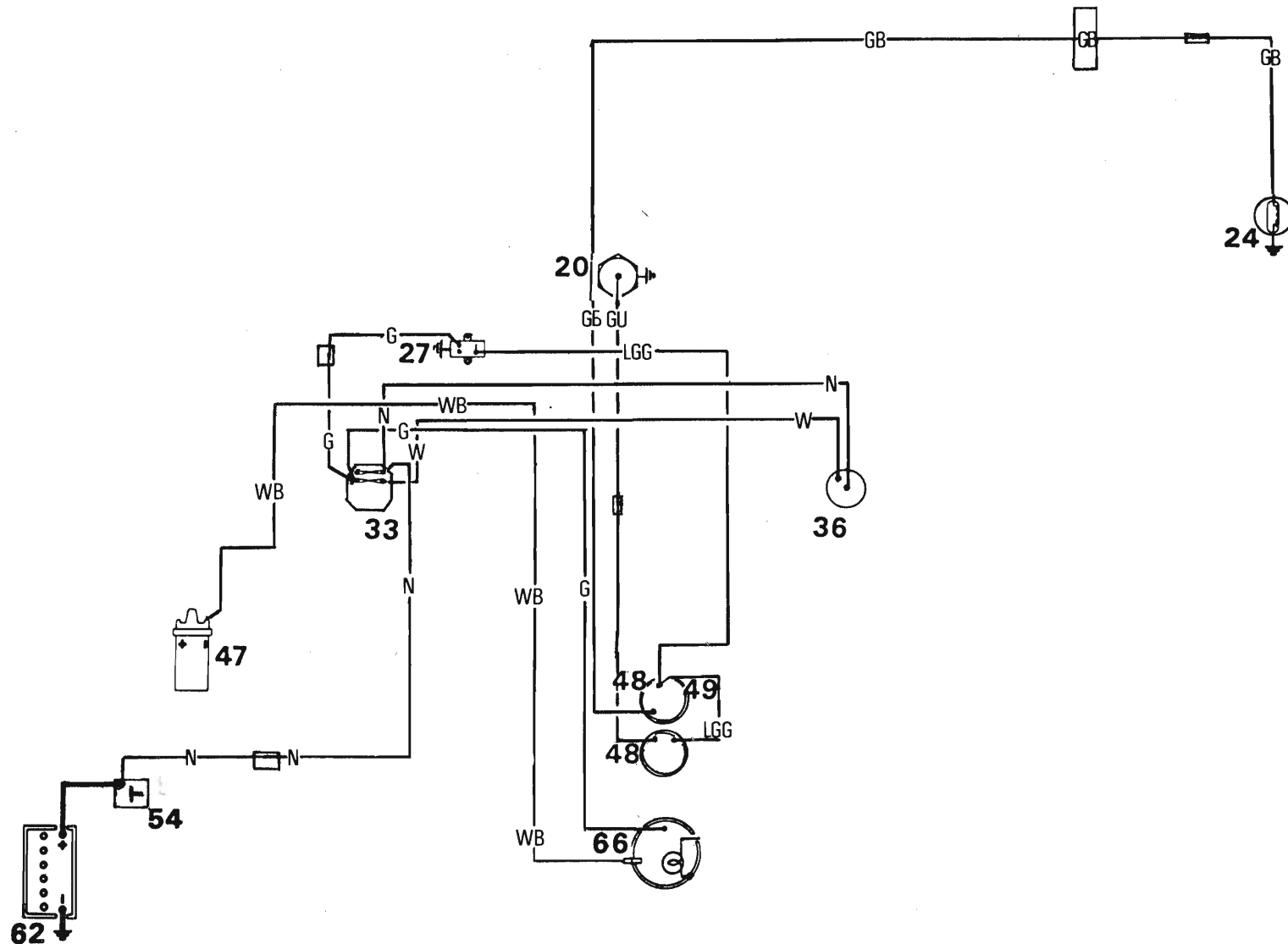
-
- 23 Time delay buzzer
38 Driver's seat belt buckle switch

SEAT BELT BUCKLE



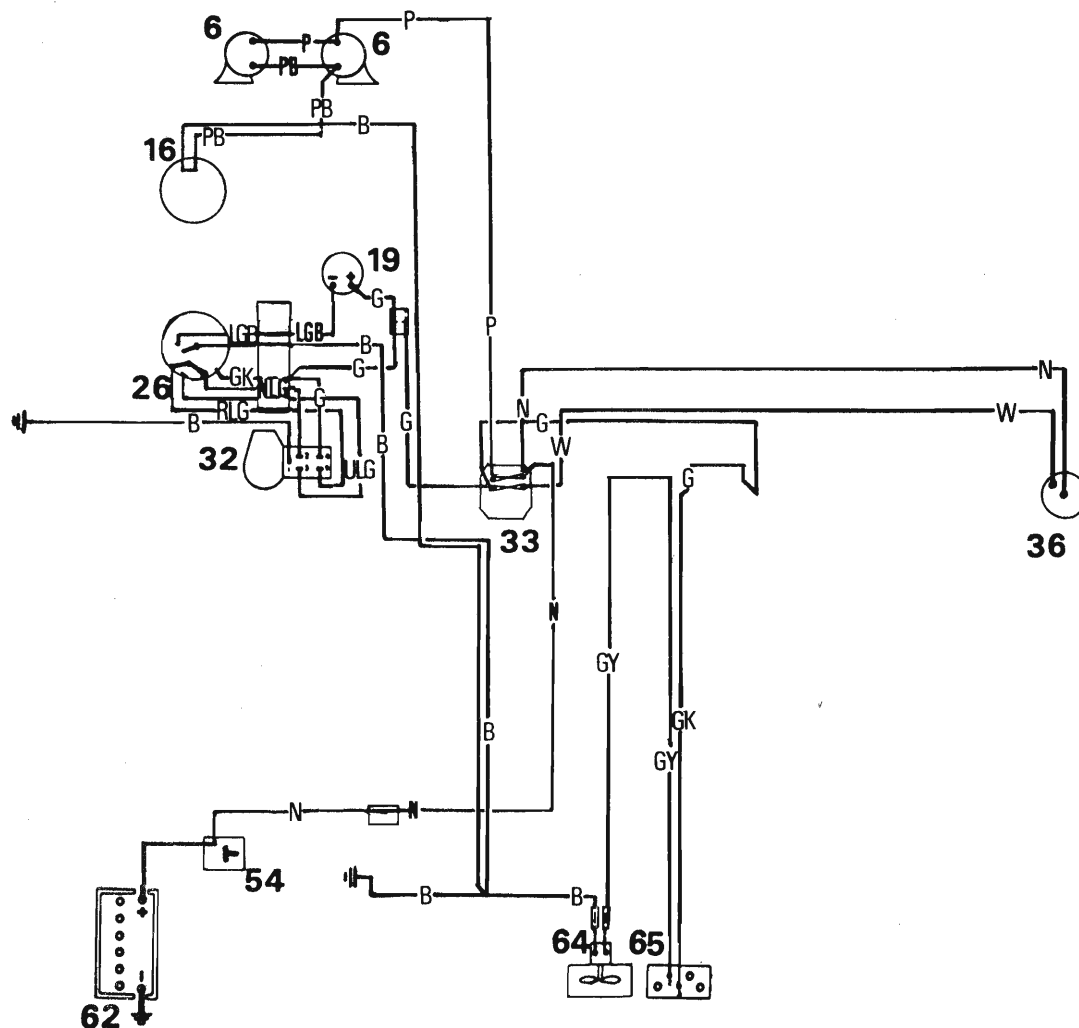
- 23 Time delay buzzer
- 36 Ignition starter switch
- 58 Ignition key audible warning door switch

IGNITION KEY AUDIBLE WARNING



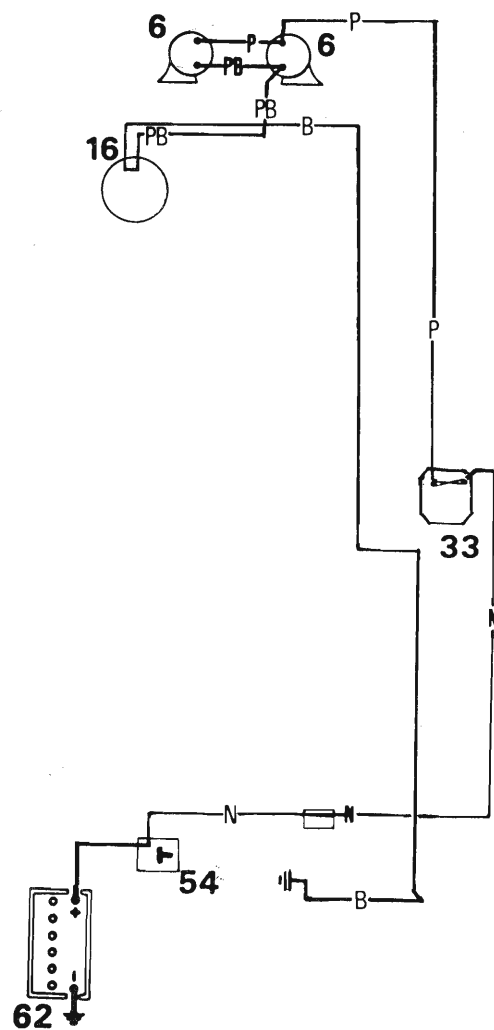
- | | | | |
|----|---------------------------------|----|------------------|
| 20 | Coolant temperature transmitter | 47 | Ignition coil |
| 24 | Fuel gauge tank unit | 48 | Panel lamp |
| 27 | Instrument voltage stabilizer | 54 | Starter solenoid |
| 33 | Fuse unit | 62 | Battery |
| 36 | Ignition starter switch | 66 | Tachometer |

INSTRUMENTATION CIRCUITS



- | | | | |
|----|---|----|-------------------------|
| 6 | Horn | 32 | Windshield wiper motor |
| 16 | Direction indicator switch | 36 | Ignition starter switch |
| 19 | Windshield washer pump | 54 | Starter solenoid |
| 26 | Combined windshield washer and wiper switch | 64 | Heater motor |
| | | 65 | Heater motor switch |

HORN/,HEATER/DEFROSTER, WINDSHIELD WIPER/WASHER CIRCUITS

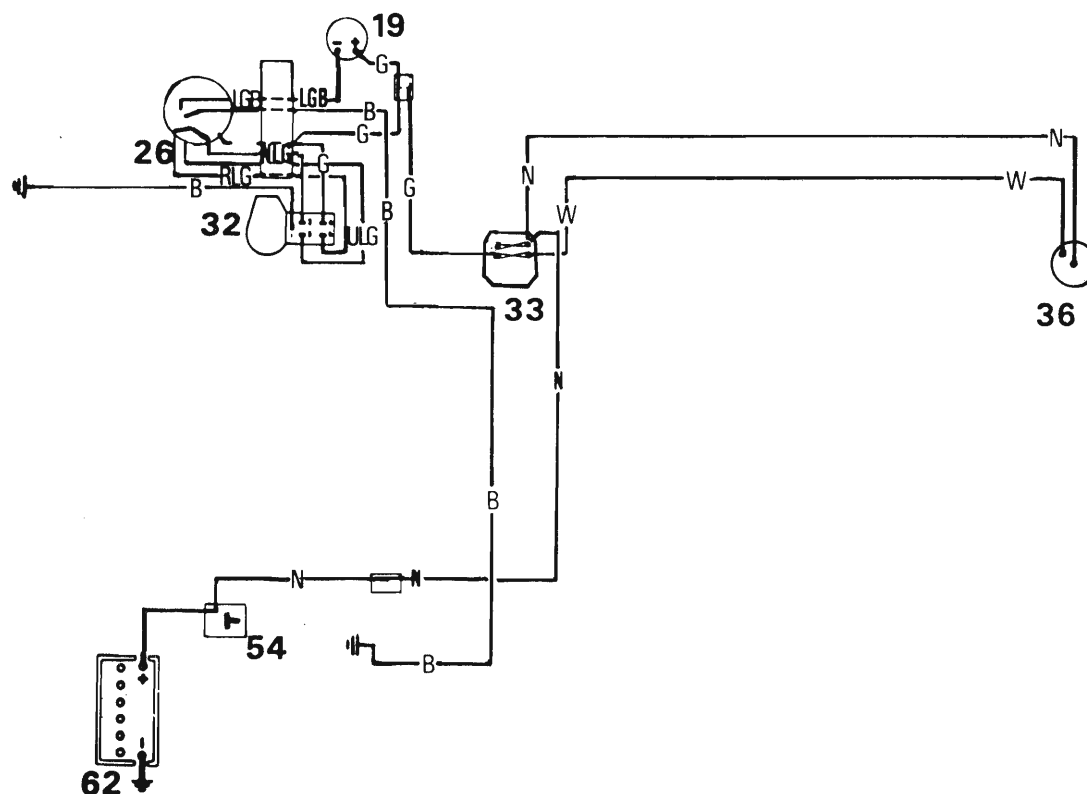


- 6 Horn
- 16 Direction indicator switch
- 33 Fuse unit
- 54 Starter solenoid
- 62 Battery

HORN

- 65 Heater motor switch

HEATER/DEFROSTER



- | | | | |
|----|---|----|-------------------------|
| 19 | Windscreen washer pump | 36 | Ignition starter switch |
| 26 | Combined windscreen washer and wiper switch | 54 | Starter solenoid |
| 32 | Windscreen wiper motor | 62 | Battery |
| 33 | Fuse unit | | |

WIPER WASHER

NOTES



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