

**Read these notes before beginning installation.**

The design of this subkit takes into consideration the original wiring design and color coding whenever possible and mates this with the design requirements of the AAW 12 volt conversion. Important facts about this subkit are as follows:

1. The entire electrical system was originally a 6 volt system through the 1966 model year. The 1967 model was the first year of the 12 volt system.
2. In order to use this kit, all wiper motors must be 12 volt motors.
3. All 1962-1966 Beetles used a single speed 6 volt wiper motor. This 6 volt motor cannot be used with this kit.
4. 1967 and up used several 12 volt two speed wiper motors.
5. The 1967-69 12 volt two speed motor and switch can be used with this kit for 1962-66 vehicles.
6. Starting in 1972, the wipers were controlled by a steering column mounted switch.

Additional information on 6 volt switches and wiper motors is available via download from the technical section of our website. The original wiring nomenclature follows the European DIN standard where circuit numbers are assigned to a function. This becomes very important when trying to match a circuit function to a circuit requirement for that year. Use the switch supplement as a guideline in determining whether your original switches will work with this kit or it will be necessary to obtain new switches.

**Again, there are no switches supplied with this kit and switch selection is up to the installer.**

**6 volt motors and switches cannot be used with this kit.**

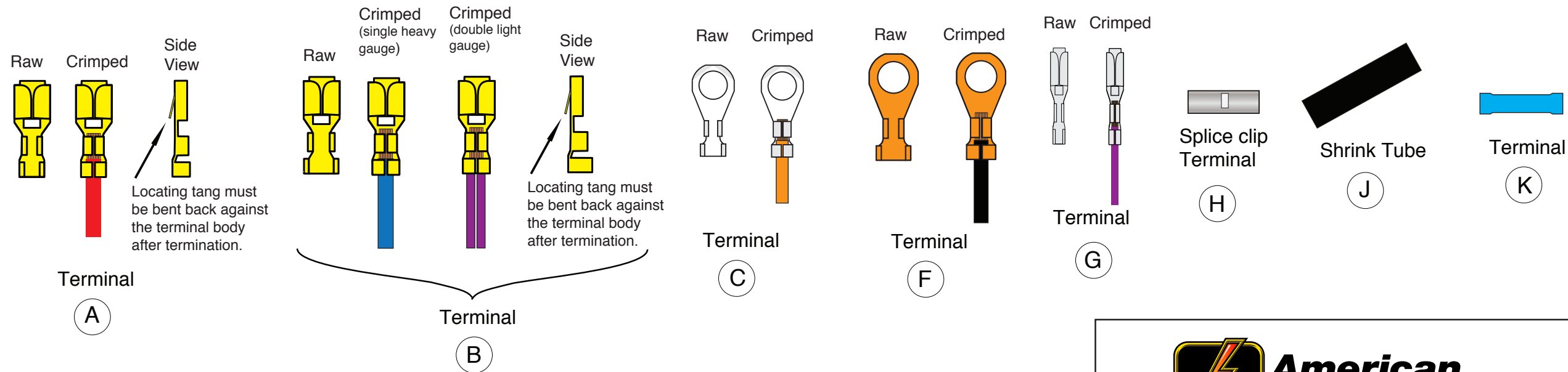
**You must use a 12 volt wiper motor and switch with this kit.**

The following switches are identified to complete the wiring installation:

- |    |                  |                         |  |
|----|------------------|-------------------------|--|
| 1. | 1962-1965 Beetle | Windshield wiper switch | 111-955-517A (single speed 6 volt application) - Cannot be used with this kit. |
| 2. | 1966 Beetle      | Windshield wiper switch | 111-955-517 (single speed 6 volt application) - Cannot be used with this kit.  |
| 3. | 1967-71 Beetle   | Windshield wiper switch | 141-955-517, 141-955-517A (two speed 12 volt application)                      |
| 4. | 1972 Beetle      | Windshield wiper switch | steering column mounted stock switch   |
| 5. | 1973 Beetle      | Windshield wiper switch | steering column mounted stock switch   |
| 6. | 1964 Beetle      | Windshield wiper switch | steering column mounted stock switch   |

**Terminals used in this installation.**

This kit contains a supply of terminals to complete the connections to the required switches and light assemblies. We have supplied additional terminals in the event that extra terminals are necessary. Each connection on the following diagrams identifies a specific terminal by a letter code that will correspond to the letter code on the terminals identified below. The terminals below are shown in actual size to help you identify the terminal required for each connection.



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Volkswagen Wiper Motor  
Wiring Kit

92971340 Rev 0.0 9/1/2015

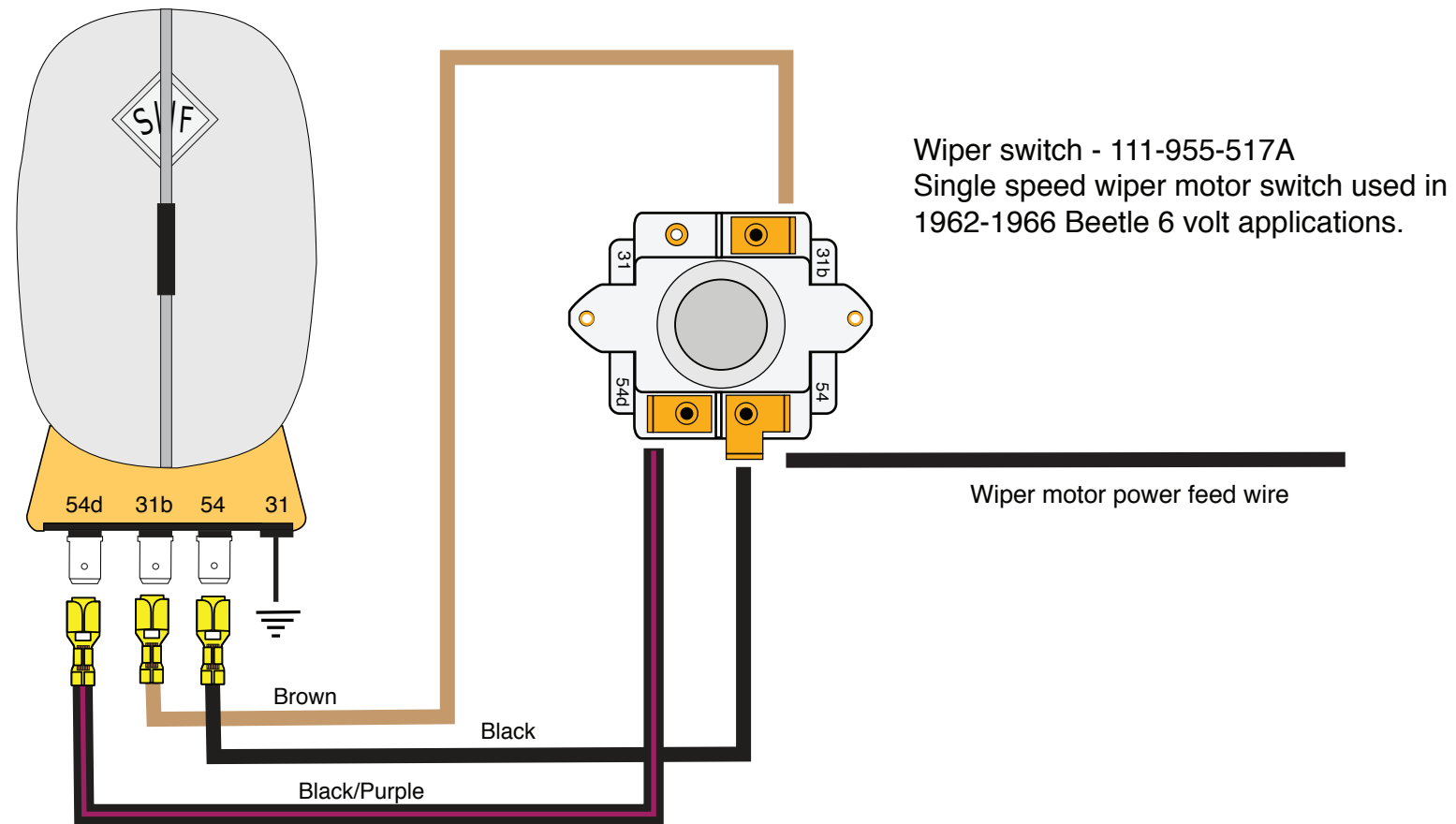
# 1962-65 Beetle - Windshield Wiper Motor Connections.

(original 6 volt connections

Single speed wiper motor connection  
using correct single speed wiper switch)

## Important!!

**6 volt motors and switches cannot be used with this kit.**  
**You must use a 12 volt wiper motor and switch with this kit.**  
**This drawing is shown for reference only.**



## Notes:

1. This drawing represents the original configuration of the 6 volt wiper motor connections in use from 1962-1966. When performing a 12 volt conversion on 6 volt vehicles, both the motor and switch must be replaced with the 12 volt equivalent. Other combinations of switches and motors are not covered in this kit and are the responsibility of the owner/installer. American Autowire cannot provide technical assistance for these combinations. Some of this information is available on open forums, but American Autowire will not be responsible for any of these modifications. Use of these modifications will void any warranty on the kit.

**THIS DRAWING IS PROVIDED FOR REFERENCE ONLY.**

2. The following connections would apply to this motor and switch combination:

switch connection	motor connection	description
54	54	POWER in from the "WIPER" connection on the fuse panel. POWER from terminal 54 on the wiper switch to terminal 54 on the wiper motor. This is the motor PARK terminal position. The original stock color of the input wire was black. Off position is realized by turning the switch knob completely to the left.
31	31	chassis GROUND. The motor is grounded on terminal 31 through a grounding tab on the motor mount. This tab is for any extra system grounding or if the motor mount does not make a good ground.
31b	31b	INTERNAL GROUND lead from 31b terminal on the switch to terminal 31b terminal on the wiper motor.
54D	54D	LOW SPEED connection from the 54D terminal on the switch to the 54D LOW SPEED terminal on the motor. First turn to right is LOW SPEED. There is continuity within the switch from the 54 terminal to the 54d terminal.



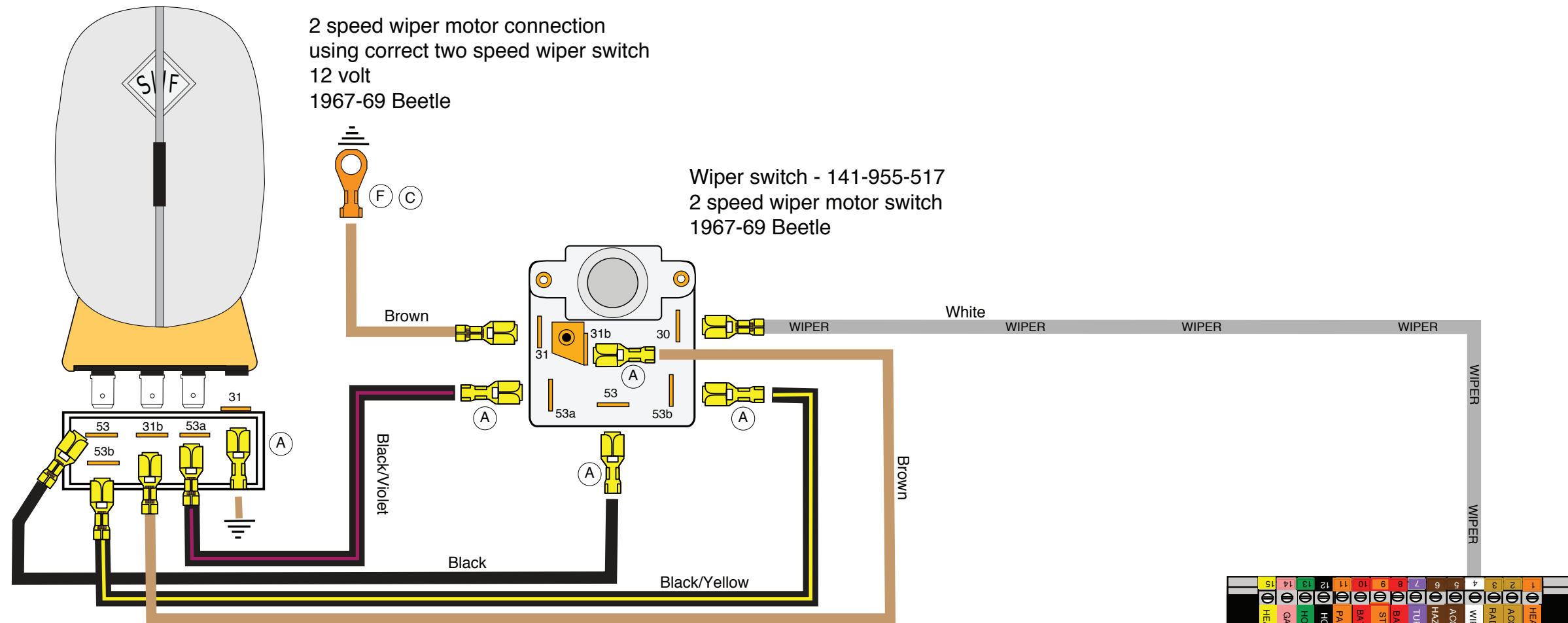
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# 1967-1969 Beetle - Windshield Wiper Motor Connections.

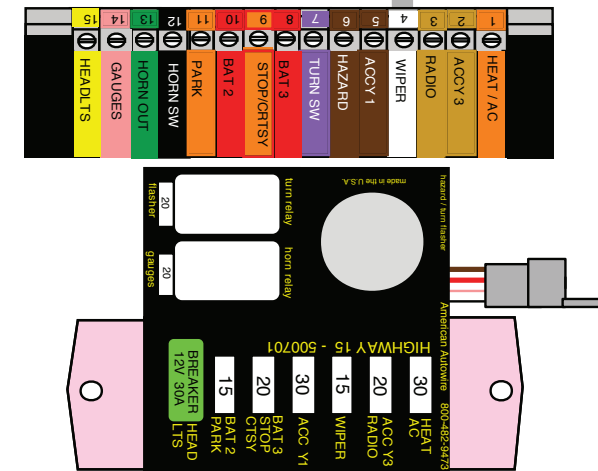
(can be retro fitted to 1962-1966 vehicles as part of a 12 volt conversion)



## Notes:

- This kit is designed to work with the correct combination of wiper switch and wiper motor for 1967-69 vehicles. This is a 12 volt 2 speed motor application. When performing a 12 volt conversion on 6 volt vehicles, both the motor and switch must be replaced with the 12 volt equivalent. Other combinations of switches and motors are not covered in this kit and are the responsibility of the owner/installer. American Autowire cannot provide technical assistance for these combinations. Some of this information is available on open forums, but American Autowire will not be responsible for any of these modifications. Use of these modifications will void any warranty on the kit.
- The following connections would apply to this motor and switch combination:

switch connection	motor connection	description
30	30	POWER in from the "WIPER" connection on the fuse panel. The original stock color of this wire was black.
53a	53a	PARK position on the switch (53a) to PARK position on the wiper motor (53a).
31	31	chassis GROUND. The motor is grounded on terminal 31 through a grounding tab on the motor mount. This tab is for any extra system grounding or if the motor mount does not make a good ground.
31b	31b	INTERNAL GROUND lead from 31b terminal on the switch to terminal 31b terminal on the wiper motor.
53	53	LOW SPEED connection from the 53 terminal on the switch to the 53 LOW SPEED terminal on the motor.
53b	53b	HIGH SPEED connection from the 53b terminal on the switch to the 53b HIGH SPEED terminal on the motor..



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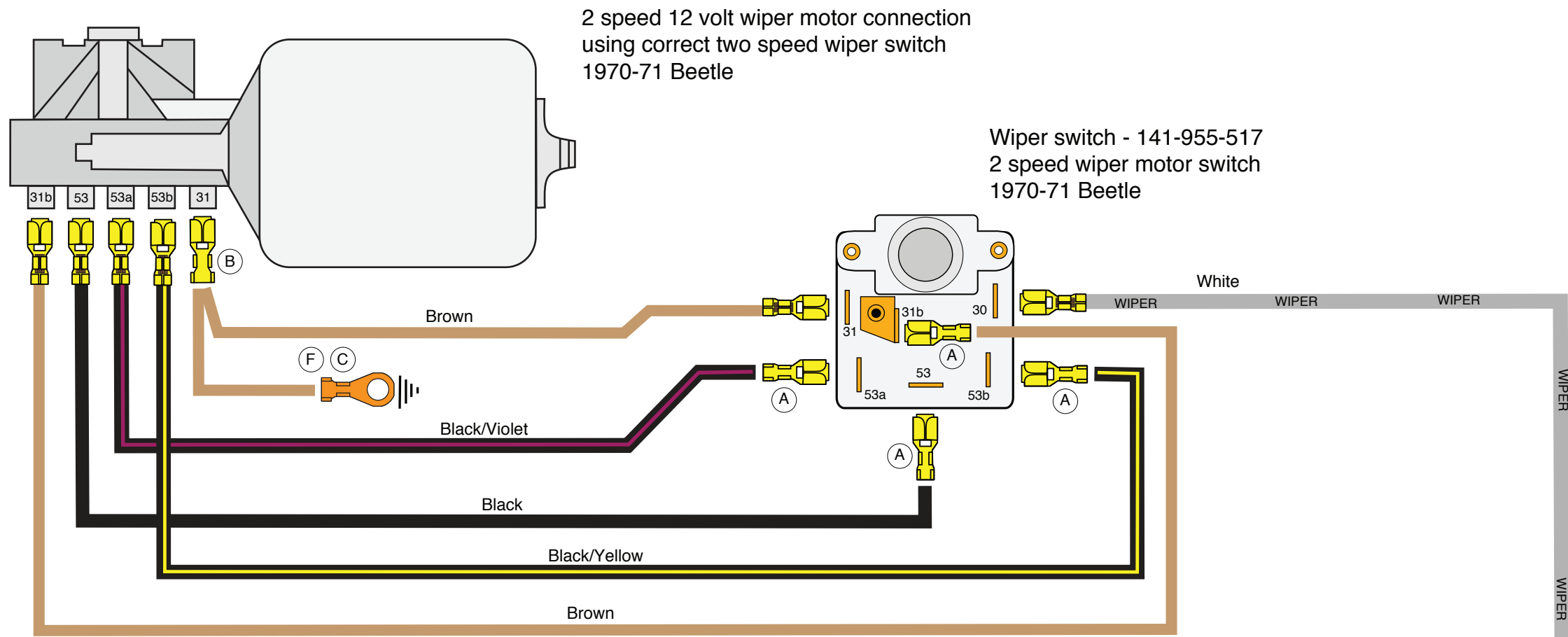
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# 1970-1971 Beetle - Windshield Wiper Motor Connections..



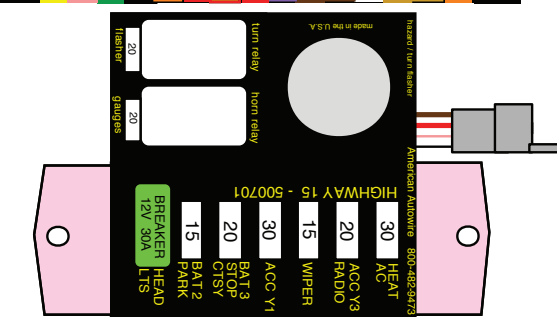
2 speed 12 volt wiper motor connection using correct two speed wiper switch 1970-71 Beetle

Wiper switch - 141-955-517  
2 speed wiper motor switch 1970-71 Beetle

### Notes:

- This kit is designed to work with the correct combination of wiper switch and wiper motor for the year of the vehicle. Other combinations of switches and motors are not covered in this kit and are the responsibility of the owner/installer. American Autowire cannot provide technical assistance for switch and motor combinations that were not designed for the year of the vehicle in question. Some of this information is available on open forums, but American Autowire will not be responsible for any of these modifications. Use of these modifications will void any warranty on the kit.
- The following connections would apply to this motor and switch combination:

switch connection	motor connection	description
30	30	POWER in from the "WIPER" connection on the fuse panel. The original stock color of this wire was dark green.
53a	53a	PARK position on the switch (53a) to PARK position on the wiper motor (53a).
31	31	chassis GROUND. The motor is grounded on terminal 31 through a grounding tab on the motor mount. This tab is for any extra system grounding or if the motor mount does not make a good ground. It is a common ground with terminal 31 on the wiper switch.
31b	31b	INTERNAL GROUND lead from 31b terminal on the switch to terminal 31b terminal on the wiper motor.
53	53	LOW SPEED connection from the 53 terminal on the switch to the 53 LOW SPEED terminal on the motor.
53b	53b	HIGH SPEED connection from the 53b terminal on the switch to the 53b HIGH SPEED terminal on the motor..



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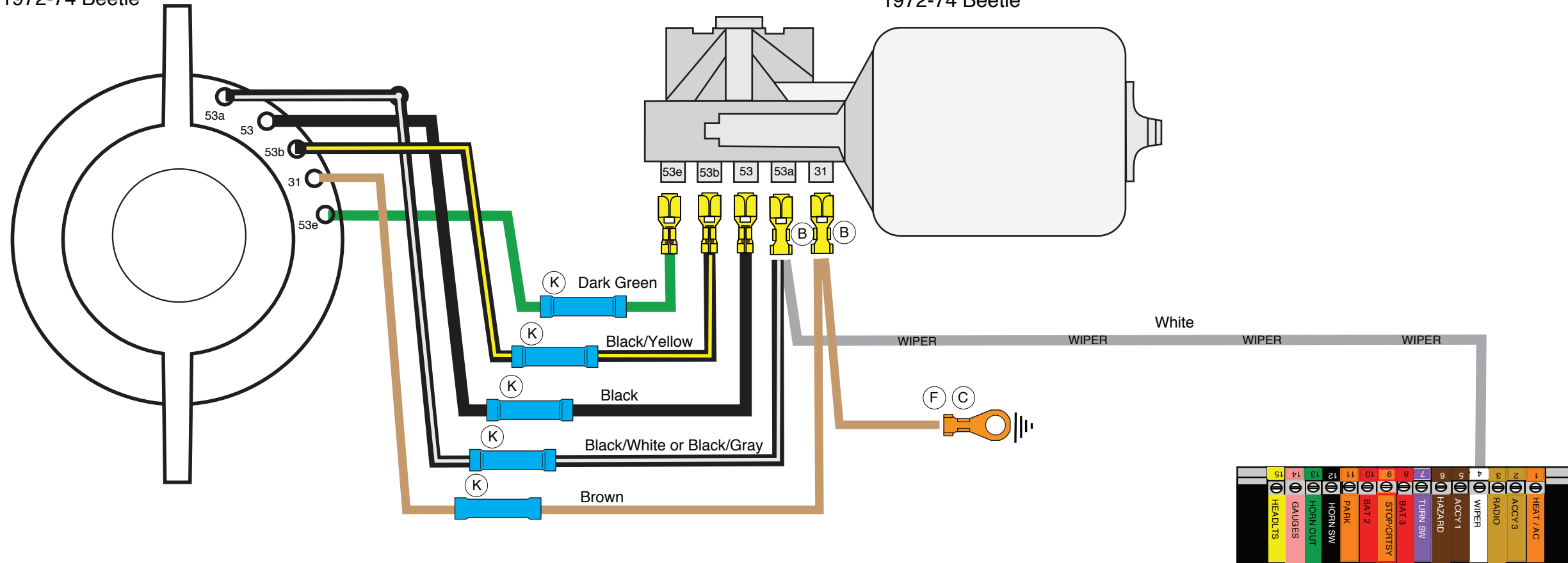
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# 1972-1974 Beetle - Windshield Wiper Motor Connections..

2 speed wiper motor switch  
mounted in steering column  
1972-74 Beetle

2 speed wiper motor connection  
using correct two speed wiper switch  
12 volt  
1972-74 Beetle



- Notes:
- This kit is designed to work with the correct combination of wiper switch and wiper motor for the year of the vehicle. Other combinations of switches and motors are not covered in this kit and are the responsibility of the owner/installer. American Autowire cannot provide technical assistance for switch and motor combinations that were not designed for the year of the vehicle in question. Some of this information is available on open forums, but American Autowire will not be responsible for any of these modifications. Use of these modifications will void any warranty on the kit.
  - The wiper switch is mounted in the steering column and has pigtail wires attached directly to the switch. The motor itself may be equipped with a harness attached to the motor and ending in a connector. Splice clips are provided to facilitate the connections. You may use either terminal K or terminal H and shrink tube J to complete the connection. The original color coding on the wires is maintained whenever possible through this connector. The following connections would apply to this motor and switch combination:

switch connection	motor connection	description
53a	53a	POWER in from the "WIPER" connection on the fuse panel. The original stock color of this wire was Black/Gray.
53a	53a	This is the PARK position on the wiper motor (53a).
31	31	chassis GROUND. The motor is grounded on terminal 31. The switch and the wiper motor share a common ground.
53	53	LOW SPEED connection from the 53 terminal on the switch to the 53 LOW SPEED terminal on the motor.
53b	53b	HIGH SPEED connection from the 53b terminal on the switch to the 53b HIGH SPEED terminal on the motor.
53e	53e	Lead from 53e terminal on the switch to terminal 53e terminal on the wiper motor.



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## WIRE FUNCTION CHART

VW CIRCUIT	AAW CIRCUIT	WIRE GAUGE	WIRE COLOR	WIRE PRINTING	CIRCUIT FUNCTION
54	92	16	White	WIPER FEED	Main power from Panel connection 4 (WIPER) to the windshield wiper switch terminal "54" (1962-66)
54	54	16	Black	no printing	Power wire from wiper switch terminal "54" to wiper motor terminal "54" (1962-66)
54D	53D	16	Black / purple stripe	no printing	Low speed power wire from wiper switch terminal 54D to the wiper motor terminal 54D. (1962-66).
31	31	16	Tan	no printing	Ground lead from wiper motor terminal "31" (1967-69)
31B	31B	16	Tan	no printing	Internal ground from wiper switch terminal 31B to wiper motor terminal 31B.
30	92	16	White	WIPER FEED	Main power from Panel connection 4 (WIPER) to the windshield wiper switch terminal "30" (1967-69)
53	53	16	Black	no printing	Low speed power wire from wiper switch terminal "53" to wiper motor terminal "53" (1967-69)
53B	53B	16	Black / yellow stripe	no printing	High speed power wire from wiper switch terminal "53B" to wiper motor terminal "53B" (1967-69)
53A	53A	16	Black / purple stripe	no printing	PARK position from wiper switch terminal "53A" to PARK position on the wiper motor terminal "53A" (1967-69)
31	31	16	Tan	no printing	Ground lead from wiper motor switch terminal "31" (1967-69)
31	31	16	Tan	no printing	Ground lead from wiper motor terminal "31" (1967-69). Check for hard tab ground.
31B	31B	16	Tan	no printing	Internal ground from wiper switch terminal 31B to wiper motor terminal 31B.
30	92	16	White	WIPER FEED	Main power from Panel connection 4 (WIPER) to the windshield wiper switch terminal "30" (1970-71)
53	53	16	Black	no printing	Low speed power wire from wiper switch terminal "53" to wiper motor terminal "53" (1970-71)
53B	53B	16	Black / yellow stripe	no printing	High speed power wire from wiper switch terminal "53B" to wiper motor terminal "53B" (1970-71)
53A	53A	16	Black / purple stripe	no printing	PARK position from wiper switch terminal "53A" to wiper motor terminal "53A" (1970-71)
31	31	16	Tan	no printing	Lead wire from wiper switch terminal "31" to wiper motor terminal "31" (1970-71)
31	31	16	Tan	no printing	Ground lead from wiper motor terminal "31" (1970-71)
31B	31B	16	Tan	no printing	Internal ground from wiper switch terminal 31B to wiper motor terminal 31B.
53A	92	16	White	WIPER FEED	Main power from Panel connection 4 (WIPER) to the windshield wiper motor terminal "53A" (1972-74)
53A	53A	16	Black / white stripe	no printing	PARK position from wiper switch terminal "53A" to wiper motor terminal "53A" (1972-74)
53	53	16	Black	no printing	Low speed power wire from wiper switch terminal "53" to wiper motor terminal "53" (1972-74)
53B	53B	16	Black / yellow stripe	no printing	High speed power wire from wiper switch terminal "53B" to wiper motor terminal "53B" (1972-74)
53E	53E	16	Dark Green	no printing	Lead wire from wiper switch terminal "53E" to wiper motor terminal "53E" (1972-74)
31	31	16	Tan	no printing	Ground lead from wiper motor terminal "31" (1972-74)
					Internal ground from wiper switch terminal "31" to wiper motor terminal "31" (1972-74)



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