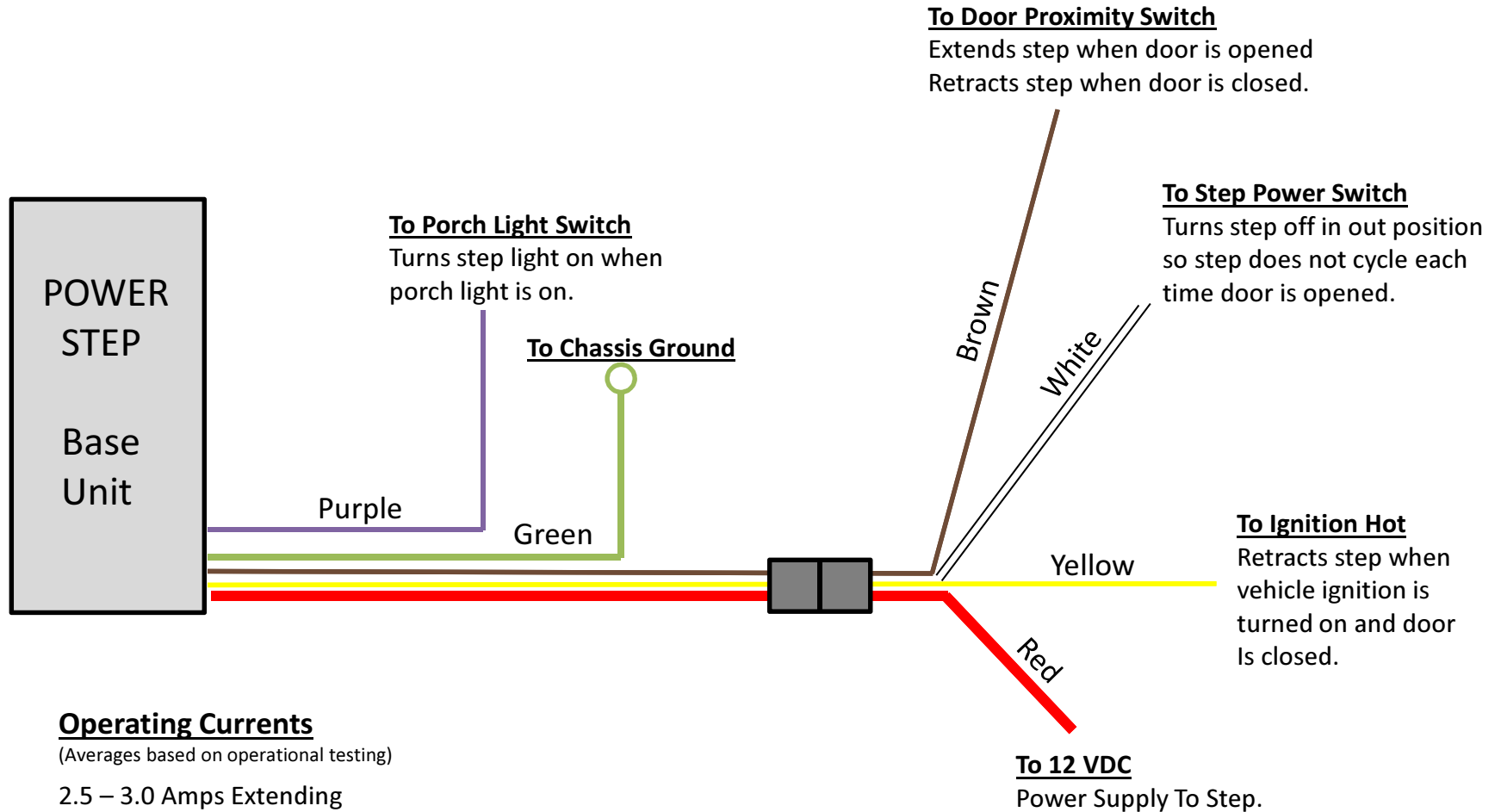




HAPPIJAC®
A Division of Lippert Components Inc.

TREAD LITE POWER STEP WIRING DIAGRAM



Operating Currents

(Averages based on operational testing)

2.5 – 3.0 Amps Extending

2.8 – 3.5 Amps Retracting

6-8 Amp spike current on start up.

11-12 Amp spike current on shut off.

TREAD LITE POWER STEP OPERATION

Overview: There are four operational inputs to the step controller consisting of a door proximity switch input, a hold/cycle step input, a porch light input, and an ignition on input. Outputs are bi-directional motor drive current and 12 VDC brake release.

DOOR PROXIMITY SWITCH: Each time the door is opened, this input (wired to a step proximity switch) extends the step. (Brown wire) When the door is closed, the step retracts.

HOLD/CYCLE INPUT: This is wired to a switch which is in turn wired to 12 VDC. When the switch is Closed (Cycle), the (White wire) Step extends and retracts each time the door is open or closed. When moved to the Open (Hold) position, the step will remain extended until the switch is once again closed, or the ignition switch is turned on with the door closed.

PORCH LIGHT: This input can be wired to a porch light switch. Any time the porch light is on, the step light will remain on. (Purple wire)

IGNITION ON: This input is wired to the vehicle ignition system such that when the ignition is turned on, and the vehicle (Yellow wire) door is closed, the step (if extended) will retract, regardless of the position of the Hold/Cycle Switch.

SAFETY SHUT OFF: The step shuts off at the end of an extension or retraction cycle by sensing the spike in motor current. Such a spike will also occur and the motor will shut off if the step encounters an obstruction (rock, tree, person, etc.). The step can be retracted and the obstruction cleared.

24" STEP DIMENSIONS (Inches)	SINGLE	DOUBLE	TRIPLE
Total Width (side to side)	25.625	25.625	25.625
Step Width	23.875	23.875	23.875
Depth (front to back) Retracted	18.00	18.00	18.00
Extended	23.00	32.00	41.00
Height (top to bottom) Retracted	6.00	7.75	9.25
Extended	6.50	14.50	22.00
Step Rise	8.50	8.50	8.50
Step depth (front to back)	8.50	8.50	8.50
Complete Assembly Weight	41 Lbs.	52 lbs.	63 lbs.

FINISHES
Black Satin Texture Powder Coat (Black parts)
Clear Zinc (Silver Parts)
Black Tread Coat Powder Coating Over Clear Anodized Aluminum (Step plates)

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30" STEP DIMENSIONS (Inches)

	SINGLE	DOUBLE
Total Width (side to side)	32.00	32.00
Step Width	30.00	30.00
Depth (front to back) Retracted	18.00	18.00
Extended	23.00	32.00
Height (top to bottom) Retracted	6.00	7.75
Extended	6.50	14.50
Step Rise	8.50	8.50
Step depth (front to back)	8.50	8.50

Complete Assembly Weight	46 lbs.	58 lbs.
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FINISHES

Black Satin Texture Powder Coat
(Black parts)
Clear Zinc (Silver Parts)

Black Tread Coat Powder Coating
Over Clear Anodized Aluminum
(Step plates)



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