

12v V2 DOT Street Legal System

Suggested Components Catalog



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Informatory

Hello,

This Manual/Catalog is to help assist you select components for your 12v V2 DOT Street Legal Kit.

All Items listed here are verified to work with the kit and are recommended. You do not have to follow this recommendation as the universality of this kit allows for anything to be hooked up. You are welcome to use whatever you please. This Catalog is for those that need help finding components.

Components here are mostly on AliExpress for Cost savings, if you need Amazon links for shipping reasons, please let me know.

****Important***

If any Information and/or Links are broken or do not work, please inform me ASAP so I can assist everyone, Thank You,

Chris



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DC Step Downs

Option Numbers Will Correspond will 3D Printed Cases

Option 1

48–96v to 12v 25A/300w Converter

Base Price: \$15.35 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 2

36–72v to 12v 10A/120w Converter

Base Price: \$6.99 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 3

24–72v to 12v 8A/96w

Base Price: \$6.99 USD

[AliExpress Link](#)

[Amazon Link](#)





Headlights (Max 96w)

Option 1

7" Round Motorcycle Style Headlight

Base Price: \$19.19 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 2

5.75" Round Motorcycle Style Headlight

Base Price: \$19.19 USD

[AliExpress Link](#)

[Amazon Link](#)



****Required For Options 1 or 2****

Universal Headlight Mounting for
7 & 5.75" Round Headlights

Base Price: \$22.23 USD

[AliExpress Link](#)

[\(5.75"\) Amazon Link](#) [\(7"\) Amazon Link](#)



Option 3

CYC Style 60w Dual low profile
Headlight (Limited to 50w)

Base Price: \$27.87 USD

[Amazon Link](#)



Turn Signals

** (Pairs are Progressive, No Relays) p = Pair**

Option 1

Standard Bar/Motorcycle Style
Turn Signals

Base Price: (1p) \$5.35 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 2

Rhombus Style Turn Signals

Base Price: (1p) \$8.89 (2p) \$14.05 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 3

Fork Wrapped Turn Signals

Base Price: (1p) \$3.87 USD

[AliExpress Link](#)

[Amazon Link](#)





Handlebar Switches

****Highly Recommended to get these specific ones****

Option 1

Motorcycle Style Left and Right
Handlebar Switches

Base Price: \$23.20 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 2

Bicycle Oriented Left and Right
Handlebar Switches

Base Price: \$15.67 USD

[AliExpress Link](#)

[Amazon Link](#)



Main Power Switch (Needed in
Conjunction With Bicycle Style)

Base Price: \$5.44 USD

[AliExpress Link](#)

[Amazon Link](#)



Tailights

Option 1

Flexible Strip Light Tailight

Base Price: \$3.33 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 2

Solid Low Profile Tailight

Base Price: \$10.84 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 3

Bicycle Orientated Tailight

Base Price: \$16.34 USD

[AliExpress Link](#)

[Amazon Link](#)





Horns

These Component are pretty standard across the board, thus only one is suggested, more is available upon request
CAD'd & 3D Printed Mounts are available

Option 1

Standard 105 Db Horn
Base Price: \$4.29 USD

[AliExpress Link](#) [Amazon Link](#)



Brake Cutoffs

In order for the kit to work, additional brake cutoffs are needed to engage the taillight, unfortunately, you cannot reuse ones already connected to your system as the voltages are different.

Option 1

Hydraulic Brake Cutoffs
Base Price: \$14.52 USD

[AliExpress Link](#) [Amazon Link](#)



License Plate and Tail Fixures

Option 1

Adjustable License Plate Mount
Base Price: \$18.55 USD

[AliExpress Link](#) [Amazon Link](#)





USB & Accessory Out

On the Kit there is a Terminal Labeled USB , to which it is normally taken up by, but can be wired to anything

Option 1

USB A + USB Type C + Voltage Meter
Panel Mount

Base Price: \$12.39 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 2

Single USB A Panel Mount

Base Price: \$4.24 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 3

Dual USB A Panel Mount

Base Price: \$4.24 USD

[AliExpress Link](#)

[Amazon Link](#)



Option 4

Single USB A Handlebar Mount

Base Price: \$6.27 USD

[AliExpress Link](#)

[Amazon Link](#)





Totals

Component	Average Cost
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DC Step Downs	\$9.74
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Headlights	\$36.90
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Turn Signals	(1p) \$6.04
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Handlebar Switches	\$22.17
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Tailights	\$7.08
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Horns	\$4.29
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Brake Cutoffs	\$14.52
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Lisense Plate and Tail Fixtures	\$18.55
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USB & Accessory Out	\$6.79
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Estimated Total	\$132.12
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****Excludes Shipping****

Kit Cost	\$120.00
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Full System Total	\$252.12 USD
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