

R—20 Harness Wiring Information

Front of Scooter

Harness Side

1. Alarm Remote-9 pin male

pin 1	negative	0.5mm black
pin 2	12V positive	0.5mm red/black
pin 3	accelerator 5V positive (into)	0.5mm blue/red
pin 6	accelerator 5V positive out)	0.5mm black/white
pin 8	left turning	0.5mm orange
pin 9	right turning	0.5mm light blue

2. accelerator-3 pin female

pin 1	accelerator voltage	0.5mm green
pin 2	5V positive	0.5mm black/white
pin 3	negative	0.5mm black

3. Blinker-3 pin male

pin 1	12V positive	0.5mm red
pin 2	turning 12V positive	0.5mm gray
pin 3	to the ground	0.5mm black

4. control board - 6 pin male

pin 1	12V positive	0.5mm red
pin 2	kill switch 12V positive	0.5mm yellow/red
pin 3	60V positive (into)	0.5mm pink
pin 4	negative	0.5mm black
pin 6	60V positive (out)	0.5mm green/red

5. Front light - 4 pin male

pin 1	Low beam light	0.5mm black
pin 2	Low beam light	0.5mm white
pin 3	High beam light	0.5mm blue
pin 4	position light 12V positive	0.5mm brown

6. Ignition key - 4 pin male

pin 2	ignition key 12V positive (into)	0.5mm red/black
pin 4	ignition key 12V positive (out)	0.5mm red

7. Horn - 2 pin

pin 1	horn 12V positive	0.5mm light green
pin 2	negative	0.5mm black

8. Dash-9 pin female

pin 2	right turning 12V positive	0.5mm light blue
pin 3	left turning 12V positive	0.5mm orange
pin 5	negative	0.5mm black
pin 6	far away light	0.5mm blue
pin 7	60V positive	0.5mm pink
pin 8	60V positive	0.5mm green/red
pin 9	at night 12V positive	0.5mm brown

9. Left turning-2 pin male

pin 1	left turning 12V positive	0.5mm orange
pin 2	negative	0.5mm black

10. Right turning- 2 pin male

9 pin female

to remote	black
to remote	red
to remote	gray
to remote	gray
to remote	yellow
to remote	yellow

3 pin male

to accelerator	yellow
to accelerator	red
to accelerator	black

9 pin male

to blinker	red
to blinker	green
to blinker	black

6 pin female

to control board	red
to control board	yellow/red
to control board	pink
to control board	black
to control board	green/red

4 pin female

to front light	black
to front light	white
to front light	blue
to front light	brown

4 pin female

to ignition key	black
to ignition key	red

9 pin male

to dash	light blue
to dash	orange
to dash	green
to dash	blue
to dash	yellow
to dash	black
to dash	gray

2 pin female

to left turning	orange
to left turning	black

2 pin female

pin 1	right turning 12V positive	0.5mm light blue	to right turning	light blue
pin 2	negative	0.5mm black	to right turning	black

11. Brake-2 pin male

pin 1	12V positive out)	0.5mm yellow/green	to brake	yellow/green
pin 2	12V positive into)	0.5mm red	to brake	red

2 pin female**12.Right handlebar- 6 pin male**

pin 1	12V positive	0.5mm red	to right handlebar	yellow
pin 2	kill switch 12V positive	0.5mm yellow/red	to right handlebar	yellow/red
pin 3	12V positive	0.5mm red	to right handlebar	green
pin 4	at night 12V positive	0.5mm brown	to right handlebar	brown
pin 5	12V positive	0.5mm red	to right handlebar	black
pin 6	brake light 12V positive	0.5mm yellow/green	to right handlebar	yellow/green

6 pin female**13. Left handlebar- 9 pin male**

pin 1	horn 12V positive	0.5mm light green	to left handlebar	light green
pin 2	12V positive	0.5mm red	to left handlebar	black
pin 3	faraway light 12V positive	0.5mm blue	to left handlebar	blue
pin 4	left turning 12V positive	0.5mm orange	to left handlebar	orange
pin 5	turn to charger 12V positive	0.5mm gray	to left handlebar	gray
pin 6	nearsighted light 12V positive	0.5mm white	to left handlebar	white
pin 7	right turning 12V positive	0.5mm light blue	to left handlebar	light blue
pin 8	at night 12V positive	0.5mm brown	to right handlebar	brown

9 pin female**Middle of Scooter****14. Kick Stand Switch - 2 pin male**

pin 1	kick stand off	0.5mm green	to kick stand	green/yellow
pin 2	negative	0.5mm black	to kick stand	green

2 pin female**15. Charger - 2 pin male**

pin 1	charger 60V positive	2.5mm red	to charger	red
pin 2	charger negative	2.5mm black	to charger	black

2 pin female**Back of Scooter****16. Accelerator - 3 pin female**

pin 1	negative	0.5mm black	to accelerator	black
pin 2	in charge of voltage	0.5mm green	to accelerator	white
pin 3	accelerator 5V positive	0.5mm blue/red	to accelerator	red

3 pin male**17. Rear light - 3 pin male**

pin 1	brake 12V positive	0.5mm yellow/green	to Rear light	yellow/green
pin 2	at night 12V positive	0.5mm brown	to Rear light	brown
pin 3	negative (to ground)	0.5mm black	to Rear light	black

3 pin female**18. Rear right turning - 2 pin male**

pin 1	12V positive	0.5mm light blue	to right turning	light blue
pin 2	negative (to ground)	0.5mm black	to right turning	black

2 pin female**19. Rear left turning - 2 pin male**

pin 1	12V positive	0.5mm orange	to left turning	orange
pin 2	negative (to ground)	0.5mm black	to left turning	black

2 pin female**20. Kill switch - 2 pin female****2 pin male**

pin 1	brake 12V positive	0.5mm yellow/green	to kill switch yellow/green
pin 2	kick stand off switch	0.5mm green	to kill switch green

21. DC/DC Converter - 3 pin male

pin 1	negative (to ground)	0.75mm black	to DC/DC converter black
pin 2	12V positive DC/DC converter (out)	0.75mm yellow	to DC/DC converter yellow
pin 3	60V positive	0.75mm pink	to DC/DC converter red

3 pin female**22. Fuse holder - 2 pin male**

pin 1	12V positive fuse holder (into)	0.75mm yellow	to fuse holder yellow
pin 2	12V positive fuse holder (out)	0.75mm red/white	to fuse holder red/white

2 pin female**23. Controller - 2 pin male**

pin 1	controller switch 60V positive	0.5mm green/red	to controller red
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2 pin female**24. Heat sensing switch - 2 pin male**

pin 1	heat sensing switch 12V positive (into)	0.5mm red/white	to heat sensing switch black
pin 2	12V positive (out)	0.5mm blue/red	to heat sensing switch black

2 pin female**25. Fan - 2 pin female**

pin 1	fan 12V positive	0.5mm blue/red	to fan red
pin 2	negative (to ground)	0.5mm black	to fan black

2 pin male**26. Circuit breaker**

pin 1	60V positive	0.75mm pink	to screw down connector on circuit break
pin 2	charger 60V positive	2.5 mm thicker red	to screw down connector on circuit break

Other side of circuit breaker**27. Terminal board - Connector**

pin 1	negative (to ground)	2.5mm thicker black	to terminal board thicker black
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Screw down connector