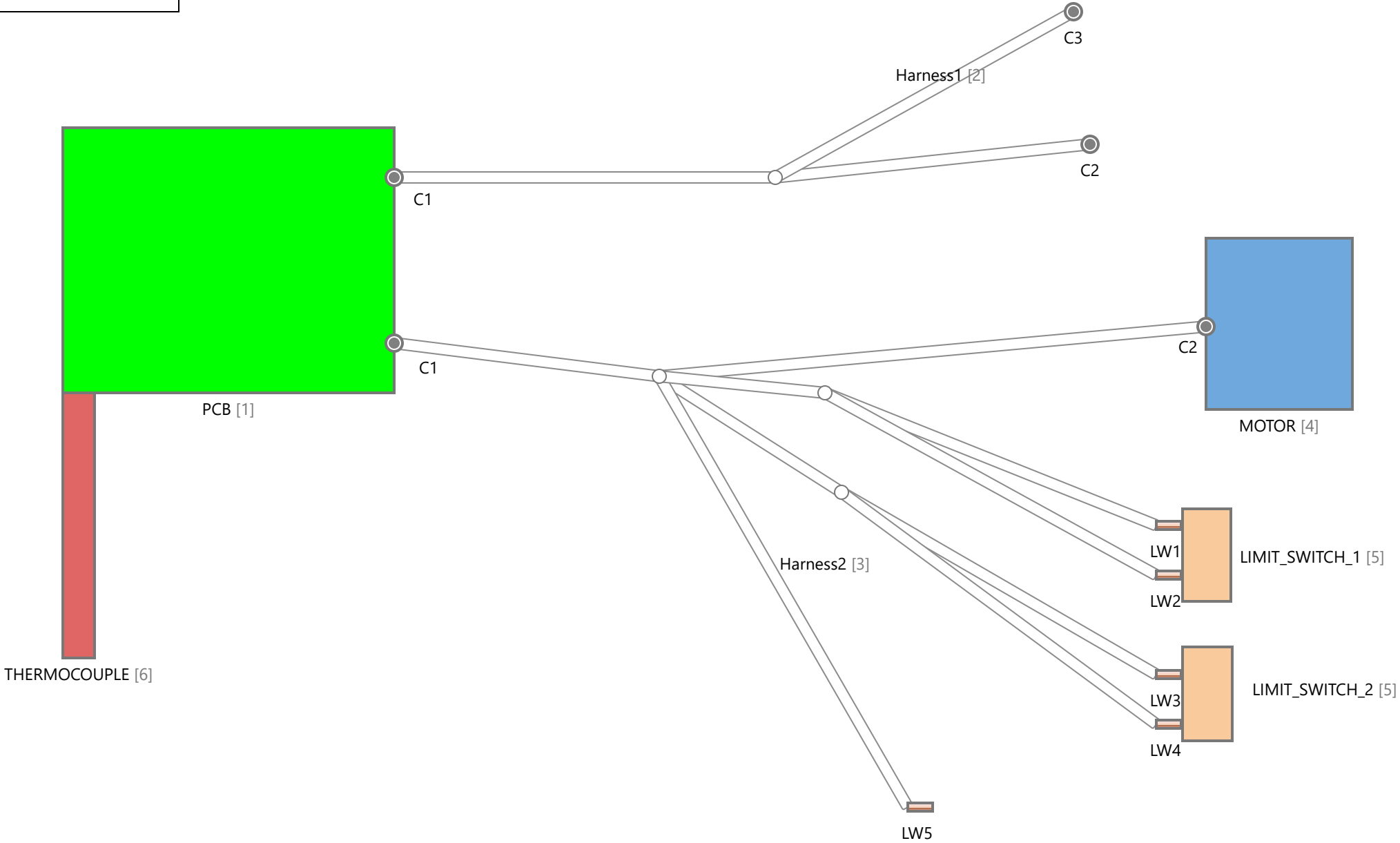


Revisions			
Rev.	Date	Author	Description
A	5/2/2025	C. BENTLEY	Initial release

Notes

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Device		AUTO CHOKE PCB	1
2	Harness		WH01	1
3	Harness		WH02	1
4	Device		MOTOR	1
5	Device		LIMIT SWITCH	2
6	Device		THERMOCOUPLE	1



Title Auto choke top level wiring		Part Number Auto Choke		Eng Approved	----	----	This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization.
Description Automatic choke controller and digital dash for ME 507		Revision ----		Mfg Approved	----	----	
				QA	----	----	

<b>Title:</b>	----
<b>Part Number:</b>	Auto Choke
<b>Description:</b>	Automatic choke controller and digital dash for ME 507



Rev.	Date	Author	Description
A	5/2/2025	C. BENTLEY	Initial release

<b>Title:</b>	----
<b>Part Number:</b>	Auto Choke
<b>Description:</b>	Automatic choke controller and digital dash for ME 507



Flag	Quantity	Note



















































































Title:	----
Part Number:	Auto Choke
Description:	Automatic choke controller and digital dash for ME 507

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Device		AUTO CHOKE PCB		1	PCB
2	Harness		WH01	Connects PCB to existing bike connections	1	Harness1
3	Harness		WH02	Connects PCB to new devices on bike	1	Harness2
4	Device		MOTOR		1	MOTOR
5	Device		LIMIT SWITCH		2	LIMIT_SWITCH_1, LIMIT_SWITCH_2
6	Device		THERMOCOUPLE		1	THERMOCOUPLE















<b>Title:</b>	----
<b>Part Number:</b>	Auto Choke
<b>Description:</b>	Automatic choke controller and digital dash for ME 507

#	Type	Manufacturer	Part Number	Description	Quantity
2	Connector	MOLEX	03091157	2.36mm Diameter Standard .093" Pin and Socket Receptacle Housing, 15 Circuits, 3 Rows, without Mounting Ears, with Lock Ramps	2
6	Connector	MOLEX	0510210600	CONN RCPT HSG 6POS 1.25MM	1
3	Connector	Ruibapa	P-029-06	2.8mm automotive wire connector	1
4	Connector	Ruibapa	P-029-08	2.8mm automotive wire connector	1
1	Device		AUTO CHOKE PCB		1
8	Device		LIMIT SWITCH		2
7	Device		MOTOR		1
9	Device		THERMOCOUPLE		1
5	Wire				0 in

<b>Title:</b>	----
<b>Part Number:</b>	Auto Choke
<b>Description:</b>	Automatic choke controller and digital dash for ME 507

#	Subsystem	Device / Harness	Endpoint	Signal
1		 Harness1	 C1.1	
		 Harness1	 C2.1	
2		 Harness1	 C1.2	
		 Harness1	 C2.2	
3		 Harness1	 C1.3	
		 Harness1	 C2.3	
4		 Harness1	 C1.4	
		 Harness1	 C2.4	
5		 Harness1	 C1.5	
		 Harness1	 C2.5	
6		 Harness1	 C1.6	
		 Harness1	 C2.6	
7		 Harness1	 C1.7	
		 Harness1	 C3.1	
8		 Harness1	 C1.8	
		 Harness1	 C3.2	
9		 Harness1	 C1.9	
		 Harness1	 C3.3	
10		 Harness1	 C1.10	
		 Harness1	 C3.4	
11		 Harness1	 C1.11	
		 Harness1	 C3.5	
12		 Harness1	 C1.12	
		 Harness1	 C3.6	
13		 Harness1	 C1.13	
		 Harness1	 C3.7	
14		 Harness2	 C1.1	
		 Harness2	 C2.1	
15		 Harness2	 C1.2	
		 Harness2	 C2.2	
16		 Harness2	 C1.3	
		 Harness2	 C2.3	
17		 Harness2	 C1.4	
		 Harness2	 C2.4	
18		 Harness2	 C1.5	
		 Harness2	 C2.5	
19		 Harness2	 C1.6	
		 Harness2	 C2.6	
20		 Harness2	 C1.7	
		 Harness2	 LW1	
21		 Harness2	 C1.8	

Title:	----
Part Number:	Auto Choke
Description:	Automatic choke controller and digital dash for ME 507

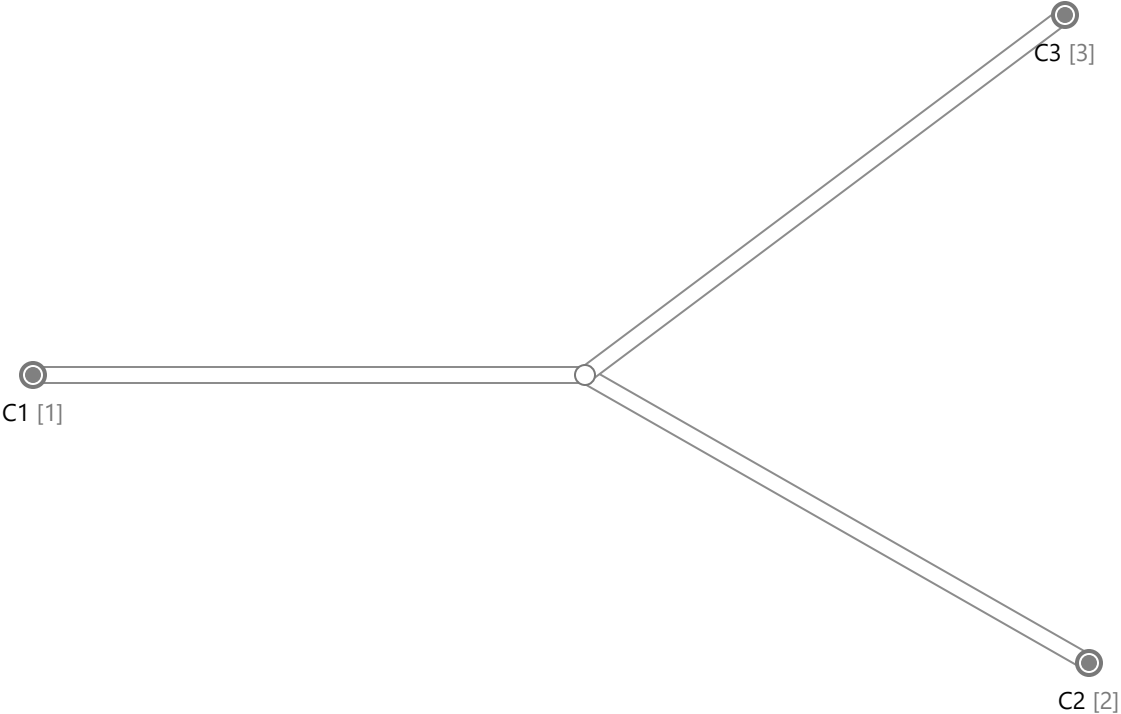
#	Subsystem	Device / Harness	Endpoint	Signal
		 Harness2	 LW2	
22		 Harness2	 C1.9	
		 Harness2	 LW3	
23		 Harness2	 C1.10	
		 Harness2	 LW4	
24		 Harness2	 C1.11	
		 Harness2	 LW5	

Revisions			
Rev.	Date	Author	Description
A	5/2/2025	C. BENTLEY	Initial release

Notes

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Connector	MOLEX	03091157	1
2	Connector	Ruibapa	P-029-06	1
3	Connector	Ruibapa	P-029-08	1
4	Wire			0 in

From	To	Notes
C1.1	C2.1	V_BAT
C1.2	C2.2	GND
C1.3	C2.3	L_TURN
C1.4	C2.4	R_TURN
C1.5	C2.5	HIGH_BEAMS
C1.6	C2.6	LOW_BEAMS
C1.7	C3.1	NEUTRAL
C1.8	C3.2	1_GEAR
C1.9	C3.3	2_GEAR
C1.10	C3.4	3_GEAR
C1.11	C3.5	4_GEAR
C1.12	C3.6	5_GEAR
C1.13	C3.7	6_GEAR



From	To	Notes
C3.1	C1.7	NEUTRAL
C3.2	C1.8	1_GEAR
C3.3	C1.9	2_GEAR
C3.4	C1.10	3_GEAR
C3.5	C1.11	4_GEAR
C3.6	C1.12	5_GEAR
C3.7	C1.13	6_GEAR

From	To	Notes
C2.1	C1.1	V_BAT
C2.2	C1.2	GND
C2.3	C1.3	L_TURN
C2.4	C1.4	R_TURN
C2.5	C1.5	HIGH_BEAMS
C2.6	C1.6	LOW_BEAMS

TitleExisting Harness		Part NumberWH01			Name	Date	<div>rapidHARNNESS</div> <div>This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization.</div>
				Drawn By	C. BENTLEY	5/2/2025	
				Eng Approved	----	----	
				Mfg Approved	----	----	
DescriptionConnects PCB to existing bike connections		Revision----		QA	----	----	



<b>Title:</b>	----
<b>Part Number:</b>	WH01
<b>Description:</b>	Connects PCB to existing bike connections



Rev.	Date	Author	Description
A	5/2/2025	C. BENTLEY	Initial release

<b>Title:</b>	----
<b>Part Number:</b>	WH01
<b>Description:</b>	Connects PCB to existing bike connections



Flag	Quantity	Note

<b>Title:</b>	----
<b>Part Number:</b>	WH01
<b>Description:</b>	Connects PCB to existing bike connections

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	MOLEX	03091157	2.36mm Diameter Standard .093" Pin and Socket Receptacle Housing, 15 Circuits, 3 Rows, without Mounting Ears, with Lock Ramps	1	C1
2	Connector	Ruibapa	P-029-06	2.8mm automotive wire connector	1	C2
3	Connector	Ruibapa	P-029-08	2.8mm automotive wire connector	1	C3
4	Wire				0 in	W1

Title:	----
Part Number:	WH01
Description:	Connects PCB to existing bike connections

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
C1.1	C2.1							V_BAT
C1.2	C2.2							GND
C1.3	C2.3							L_TURN
C1.4	C2.4							R_TURN
C1.5	C2.5							HIGH_BEAMS
C1.6	C2.6							LOW_BEAMS
C1.7	C3.1							NEUTRAL
C1.8	C3.2							1_GEAR
C1.9	C3.3							2_GEAR
C1.10	C3.4							3_GEAR
C1.11	C3.5							4_GEAR
C1.12	C3.6							5_GEAR
C1.13	C3.7							6_GEAR

<b>Title:</b>	----
<b>Part Number:</b>	WH01
<b>Description:</b>	Connects PCB to existing bike connections

#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1		C1.1 - C2.1									V_BAT
2		C1.2 - C2.2									GND
3		C1.3 - C2.3									L_TURN
4		C1.4 - C2.4									R_TURN
5		C1.5 - C2.5									HIGH_BEAMS
6		C1.6 - C2.6									LOW_BEAMS
7		C1.7 - C3.1									NEUTRAL
8		C1.8 - C3.2									1_GEAR
9		C1.9 - C3.3									2_GEAR
10		C1.10 - C3.4									3_GEAR
11		C1.11 - C3.5									4_GEAR
12		C1.12 - C3.6									5_GEAR
13		C1.13 - C3.7									6_GEAR

<b>Title:</b>	----
<b>Part Number:</b>	WH01
<b>Description:</b>	Connects PCB to existing bike connections



#	Manufacturer	Part Number	Description	Label Text

Revisions			
Rev.	Date	Author	Description
A	5/2/2025	C. BENTLEY	Initial release

Notes

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Connector	MOLEX	03091157	1
4	Wire			0 in
5	Connector	MOLEX	0510210600	1

From	To	Notes
C1.1	C2.1	VDD
C1.2	C2.2	GND
C1.3	C2.3	M_OUT1
C1.4	C2.4	MOUT_2
C1.5	C2.5	ENC1
C1.6	C2.6	ENC2
C1.7	LW1	LIMIT_1
C1.8	LW2	GND
C1.9	LW3	LIMIT_2
C1.10	LW4	GND
C1.11	LW5	TAC



Title New Harness		Part Number WH02		Eng Approved	----	----	This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization.
Description Connects PCB to new devices on bike		Revision ----		Mfg Approved	----	----	
				QA	----	----	

<b>Title:</b>	----
<b>Part Number:</b>	WH02
<b>Description:</b>	Connects PCB to new devices on bike



Rev.	Date	Author	Description
A	5/2/2025	C. BENTLEY	Initial release



<b>Title:</b>	----
<b>Part Number:</b>	WH02
<b>Description:</b>	Connects PCB to new devices on bike



Flag	Quantity	Note

<b>Title:</b>	----
<b>Part Number:</b>	WH02
<b>Description:</b>	Connects PCB to new devices on bike

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	MOLEX	03091157	2.36mm Diameter Standard .093" Pin and Socket Receptacle Housing, 15 Circuits, 3 Rows, without Mounting Ears, with Lock Ramps	1	C1
4	Wire				0 in	W1
5	Connector	MOLEX	0510210600	CONN RCPT HSG 6POS 1.25MM	1	C2

<b>Title:</b>	----
<b>Part Number:</b>	WH02
<b>Description:</b>	Connects PCB to new devices on bike

From	To	Conductor	Conductor PN	Twisted With	Size	Length	From Contact PN	Notes
C1.1	C2.1							VDD
C1.2	C2.2							GND
C1.3	C2.3							M_OUT1
C1.4	C2.4							MOUT_2
C1.5	C2.5							ENC1
C1.6	C2.6							ENC2
C1.7	LW1							LIMIT_1
C1.8	LW2							GND
C1.9	LW3							LIMIT_2
C1.10	LW4							GND
C1.11	LW5							TAC

<b>Title:</b>	----
<b>Part Number:</b>	WH02
<b>Description:</b>	Connects PCB to new devices on bike



#	Type	Reference Designator	Manufacturer	Part Number	Color	Size	From Strip	To Strip	Length	Twisted With	Notes
1		C1.1 - C2.1									VDD
2		C1.2 - C2.2									GND
3		C1.3 - C2.3									M_OUT1
4		C1.4 - C2.4									MOUT_2
5		C1.5 - C2.5									ENC1
6		C1.6 - C2.6									ENC2
7		C1.7 - LW1									LIMIT_1
8		C1.8 - LW2									GND
9		C1.9 - LW3									LIMIT_2
10		C1.10 - LW4									GND
11		C1.11 - LW5									TAC

<b>Title:</b>	----
<b>Part Number:</b>	WH02
<b>Description:</b>	Connects PCB to new devices on bike



#	Manufacturer	Part Number	Description	Label Text