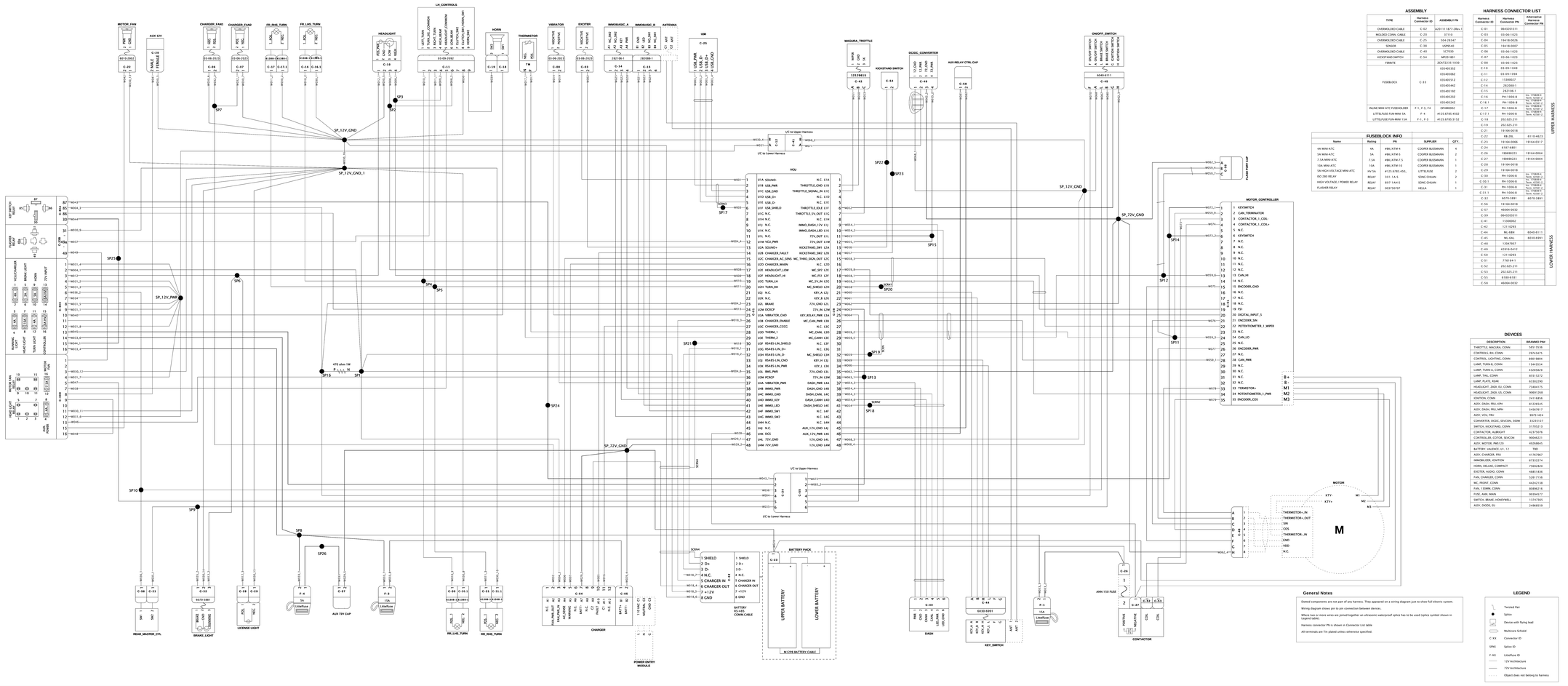

ASSEMBLY

TYPE	Harness Connector ID	ASSEMBLY PN
OVERMOLDED CABLE	C-02	A2011118(Y-Dim.)
MOLDED CONN. CABLE	C-29	3710
OVERMOLDED CABLE	C-23	504-24047
SENSOR	C-58	USP0540
OVERMOLDED CABLE	C-40	5C7030
KICKSTAND SWITCH	C-54	MP201801
FEMITE		ZCAT2215-1030
FUSEBLOCK	C-33	0354055102 0354055902 0354055112 0354054902 0354055182 0354055202 0354054242
INLINE MINI ATC FUSEHOLDER	F-1, F-3, F4	0394860002
LITTELFUSE FUN-MINI 1A	F-4	#123.8785.4502
LITTELFUSE FUN-MINI 15A	F-1, F-3	#123.8785.5152

HARNESS CONNECTOR LIST

Harness Connector ID	Harness Connector PN	Alternative Harness Connector PN
C-01	3642231311	
C-03	03-06-1023	
C-04	15418-0026	
C-05	15418-0007	
C-06	03-06-1023	
C-07	03-06-1021	
C-08	03-06-1023	
C-10	03-09-1049	
C-11	03-09-1064	
C-12	15300027	
C-14	282588-1	
C-15	282186-1	
C-16	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-16.1	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-17	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-17.1	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-18	252.025.211	
C-19	252.025.211	
C-21	15164-0018	
C-22	88-36L	6110-4623
C-23	15164-0066	15164-0317
C-24	8187-6861	
C-26	190690223	15164-0004
C-27	190690225	15164-0004
C-28	15164-0018	
C-29	15164-0018	
C-30	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-30.1	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-31	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-31.1	PH-1008-8	Ha. 170689-1 Ha. 170689-2
C-32	6070-3881	6070-5881
C-56	15164-0018	
C-57	46064-0052	
C-59	3643350311	
C-41	15300002	
C-42	1211293	
C-44	ML-68N	6040-8111
C-45	ML-64L	6030-6991
C-48	12047957	
C-49	63818-6413	
C-50	12110293	
C-51	7761164-1	
C-52	252.025.211	
C-53	252.025.211	
C-55	6180-6183	
C-58	46064-0052	

FUSEBLOCK INFO

Name	Rating	PN	SUPPLIER	QTY.
4A MINI ATC	4A	#BLVATM-4	COOPER BUSSMANN	4
5A MINI ATC	5A	#BLVATM-5	COOPER BUSSMANN	2
7.5A MINI ATC	7.5A	#BLVATM-7.5	COOPER BUSSMANN	1
15A MINI ATC	15A	#BLVATM-15	COOPER BUSSMANN	1
5A HIGH VOLTAGE MINI ATC	HV 5A	#123.8785.450.	LITTELFUSE	2
ISO 280 RELAY	RELAY	597-1A-S	SONG CHUAN	1
HIGH VOLTAGE / POWER RELAY	RELAY	897-1AH-S	SONG CHUAN	1
FLASHER RELAY	RELAY	0037050707	HELLA	1

DEVICES

DESCRIPTION	BRAMMO P/N#
THROTTLE, MAGURA CONN.	58513538
CONTROLS, RH, CONN.	29743475
CONTROLS, LH/CTRL. CONN	89018894
LAMP, TURN-R, CONN	15443334
LAMP, TURN-L, CONN	42283835
LAMP, TAIL, CONN	85151272
LAMP, PLATE, REAR	63502298
HEADLIGHT, END, ELC. CONN	73404175
HEADLIGHT, END, FC CONN	99091388
IGNITION, CONN	24118858
ASSY, DASH, FRU, KPH	81226545
ASSY, DASH, FRU, MPH	54567617
ASSY, VCU, FRU	99751424
CONVERTER, DCDC, SEVCON, 30W	15315127
SWITCH, KICKSTAND, CONN	31705213
CONTACTOR, ALBRIGHT	43375078
CONTROLLER, COTOR, SEVCON	90046221
ASSY, MOTOR, PM/LSY	46588845
BATTERY, VALENCE, U1, 12	TBD
ASSY, CHARGER, FRU	41767867
IMMOBILISER, IGNITION	67532274
HORN, DELUXE, COMPACT	75692820
EXCITER, AUDIO, CONN	48831848
FAN, CHARGER, CONN	5397734
MC, FRONT, CONN	44242128
FAN, 150MM, CONN	80898216
FUSE, ANN, MAIN	99394577
SWITCH, BRAKE, HONEYWELL	13747585
ASSY, DIODE, EU	24988959

General Notes

Dotted components are not part of any harness. They appeared on a wiring diagram just to show full electric system.

Wiring diagram shows pin to pin connection between devices.

Where two or more wires are joined together an ultrasonic waterproof splice has to be used (splice symbol shown in Legend table).

Harness connector PN is shown in Connector List table

All terminals are Tin plated unless otherwise specified.

LEGEND

- Twisted Pair
- Splice
- Device with flying lead
- Multicore Shield
- C-XX — Connector ID
- SP#- — Splice ID
- F-XX — Littelfuse ID
- 12V Architecture
- 72V Architecture
- Object does not belong to harness

REV.	CHANGE RECORD	DATE	AUTHOR
1	INITIAL ISSUE	10/01/12	M.Kokes
	WIRE W104 RE-ROUTED FROM C-24 PIN C TO C-01 PIN 36.		
	WIRE W231 RE-ROUTED FROM C-59 PIN B TO C-24 PIN F.		
	WIRE W230 RE-ROUTED FROM C-59 PIN A TO C-24 PIN C.		
	CONNECTOR C-59 FROM MOTOR CYLINDERS HAS BEEN DELETED.		
	CONNECTOR C-45 CHANGED FROM 4-WAY TO 6-WAY.		
	WIRE W067 RE-ROUTED FROM C-32 PIN #6 TO C-45 PIN 3.		
	NEW WIRE ADDED FROM C-55 PIN 2 TO C-45 PIN 4.		
	W065 RE-ROUTED/ADDED IN CONNECTOR C-11.		
	WIRE W053_5 DELETED. WIRE W061 ADDED FROM C-57 PIN 1 TO C-39 PIN #6.		
	WIRE W062_6 DELETED. WIRE W062 ADDED FROM C-57 PIN 2 TO C-39 PIN #5.		
	PIN LABELS CHANGED FOR CONN. C-59 PINS #5 & #6.	28/02/12	M.Kokes
	ANN-150 FUSE AND ASSOCIATED WIRES HAVE BEEN DELETED.		
	NEW ANN-150 FUSE HAS BEEN CREATED.		
	WIRE W033_5 HAS BEEN DELETED.		
	WIRES W033_4 & W033_6 RE-ROUTED FROM FUSES F1 & F2 PIN 2 TO SP8.		
	FUSE F2 HAS BEEN DELETED.		
	WIRE W033_2 HAS BEEN RE-ROUTED FROM SP8 TO FUSE F1 PIN1.		
	CONN. C-29 DISCONNECTED FROM CONTACTOR. PIN "POSITIVE"		
	AND RECONNECTED TO ANN-150 FUSE PIN1.		
	BUS BARS HAVE BEEN ADDED BETWEEN LOWER BATTERY +,		
	ANN-150 FUSE AND CONTACTOR "POSITIVE".		
	PANJIT CHANGED FOR USB CONNECTOR		
	BSC DEVICES/COMPONENTS TABLE HAS BEEN REMOVED		
	ALTERNATIVE HARNESS CONN. COLUMN ADDED TO HARNESS CONNECTOR LIST		
	ASSEMBLY TABLE & FUSEBLOCK INFO TABLE HAVE BEEN UPDATED.	21/03/12	M.Kokes
	FLASHER RELAY PN NAMES UPDATED: WIRES SWAPPED IN PINS 2 1&49		
	AUX 12V PIN NAMES CHANGED TO CORRESPOND TO ACTUAL ASSEMBLY		

PROPRIETARY & CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BRAMMO INC.
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF BRAMMO INC. IS PROHIBITED.

PROJECT: ENERTIA PLUS

FORMAT	DESCRIPTION	DRAWN BY	DATE
A2+	SCHEMATIC, HARNESS, PLUS	Nishant Kotia	27/03/2012
SHEET NO.	ITEM NUMBER	REV.	CHECKED BY	DATE
1 of 1	19218645	3	Danny Watson	4/6/12

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN MILIMETERS
DO NOT SCALE DRAWING.
THIRD ANGLE PROJECTION

930 CLOVER LN.
ROCHESTER HILLS, MICHIGAN 87035, USA
PHONE: 847 - 462 - 8545
FAX: 847 - 488 - 8888

BRAMMO

Print Region(Diagram_Frame)