



Service Manual



GA 531



GA 541

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Product: *Golden Avenger™ Model GA 531*

Golden Avenger™ Model GA 541

Avenger Tech Service Manual

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TruCharge Display Diagnostics:

Status Indicator Steady : This indicates the scooter is operating properly.

Status.Indicator flashes slowly: The controller is functioning correctly, but you should charge the batteries as soon as possible.

Status Indicator Flashes Rapidly (even with throttle released) The controller safety circuits have operated and the controller has been prevented from moving the scooter. This indicates that there is a fault. Please follow this procedure.

- 1) Switch off scooter.
- 2) Make sure that all connectors on the scooter are mated securely.
- 3) Check the condition of the batteries.

Self Help Guide:

1 Bar flashing: The battery needs charging or there is a bad connection to the battery. Check all connections between the controller and the batteries. If the connections are good try charging the batteries.

2 Bars flashing: There is a bad connection to the motor. Check all connections between the motor and the controller.

3 Bars flashing: The motor has a short circuit to a battery connection. Contact your service agent.

4 Bars flashing: Not used.

5 Bars: Not used.

6 Bars flashing: The controller is being inhibited from driving, this may be because the battery charger is connected.

7 Bars flashing: A throttle fault is indicated. Make sure the throttle is in the neutral position before switching on the scooter.

8 Bars flashing: A controller fault is indicated. Contact your service agent.

9 Bars flashing: There is a bad connection to the parking brake. Check all connections between the parking brake and the controller. Or the brake is in the (forward) freewheel position.

10 Bars flashing: An excessive voltage has been applied to the controller. This is usually caused by a poor battery connection. Check all connections between the batteries and the controller.

Avenger cabling and replacement:

Main cable replacement and charger/lights cable.

The main cable goes from J1 and J4 on the tiller PCB, and the 3 pin connector in the tiller that connects to the charger input. (Cable 7-08) to Cable 7-09.



WARNING

Unplug and remove batteries.

- A) Remove the phillips screw on tiller dashboard and pull dashboard off.
- B) Remove 4 phillips screws from back of tiller and remove front half of tiller clamshell.
- C) Remove carpet from scooter pan and remove 6 phillips screws.
- D) Cut tie wraps as needed.
- E) Unplug connectors from J1 and J4 on tiller PCB and unplug the white 3 pin connector that connects to the charger input connector.
- F) Remove (unwind) helical bundling wrap.
- G) Lift tiller base rubber boot and thread cable through front body.
- H) Lift front body of scooter.
- I) Cut remaining tie wraps.
- J) With needle nose pliers bend metal cable retaining clips.
- K) Lift cable from frame and unplug from cable 7-09.
- L) Replace in reverse order, resecure cable with tie wraps and bend metal cable retaining clips back to original shape.

Avenger cabling and replacement:

Lights and charging cable:

This cable goes from a white 6 conductor plug that mates with J2 on the tiller PCB board, and a white single conductor plug, in the front of the cable, the middle of the cable has a 3 pin gray connector for the 2 front blinkers/turn indicators, and a white 2 conductor connector for the front main headlight. On the rear of the cable is a gray 4 conductor connector for the rear lighting system and a 3 pin white connector for the charging system. .



WARNING

Unplug and remove batteries.

- A) Remove the phillips screw on tiller dashboard and pull dashboard off.
- B) Remove 4 phillips screws from back of tiller and remove the front half of tiller clamshell.
- C) Remove carpet from scooter pan and remove 6 phillips screws.
- D) Cut tie wraps as needed.
- E) Unplug connector from J2 on tiller PCB board, unplug white single conductor plug.
- F) Remove blinkers from holders.
- G) Lift tiller base rubber boot and thread cable through front body.
- H) Lift front body of scooter.
- I) Cut remaining tie wraps.
- J) Unplug front head light connector.
- K) Unplug blinker/turn indicator connector.
- L) Unplug rear light connector from rear light assembly and charger from cable assembly.
- M) Replace in reverse order, resecure cable with tie wraps and bend metal cable retaining clips back to original shape

Troubleshooting Motor/Brushes

If you are unsure if the motor / transaxle is functioning you may do the following:

- 1) Remove seat, rear shroud and batteries.
- 2) Separate scooter into front and rear halves.
- 3) Unplug motor / brake connector from controller.
- 4) Lay rear half of scooter on its left side.
- 5) Push the brake release handle forward to the freewheel position.
- 6) The motor / brake connector has 4 female connectors, the large pair of connectors are for the motor.
- 7) Using 1 charged battery, run wire jumpers from motor connectors to the battery terminals. The right wheel should spin. If you reverse the polarity of the wires on the battery the tire should turn in the opposite direction.



WARNING

**BE CAREFULL NOT TO SHORT
THE WIRES AS THIS MAY
CAUSE BURNS.**

If motor does not operate remove and inspect brushes (4) and check for wear or poor seating. If no problem can be found please contact Golden Technologies Technical Service.

Changing Transaxle:



WARNING

Unplug batteries.

- A) Remove seat, shroud, and separate frame.
- A) Unplug motor/brake cable from controller.
- B) Remove the 4 nyloc nuts that capture the transaxle.
- C) Remove center nut of right tire and remove wheel.
- D) Pull transaxle out from left side.
- E) Re-install in reverse order.

Light bulb replacement:

Blinker/turn indicator light replacement



WARNING

Unplug batteries.

- A) To replace blinker/turn indicator unscrew the 2 phillips screws that hold amber lens in place.
- B) Remove rubber cover.
- C) Pull bulb straight out.
- D) Replace bulb.
- E) Replace rubber cover.
- F) Screw amber lens back into place.

Head light bulb replacement

- A) Remove the 2 phillips screws on either side of lamp.
- B) Pull off clear lens.
- C) Unscrew bulb.
- D) Repace bulb.
- E) Replace lens making sure rubber gasket remains in place.

Paddle Potentiometer Replacement



WARNING

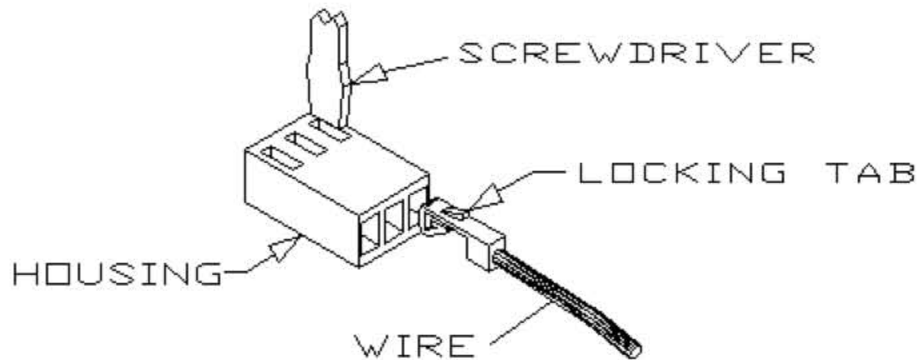
Unplug batteries.

- A) Remove 1 phillips head screw from tiller dashboard and remove dashboard.
- B) Remove 4 phillips screws from rear of tiller.
- C) Remove front of tiller.
- D) Remove 4 nuts that secure tiller PCB.
- E) Remove PCB.
- F) Remove hot glue from J5 connector and unplug from PCB.
- G) Remove 2 screws and washers from potentiometer plate.
- H) Remove 2 screws and lock washers on either side of potentiometer.
- I) Using a 2.5mm allen wrench remove the 2 allen screws from paddle.
- J) Remove paddle.
- K) Replace in reverse order.



WARNING

When reinstalling paddle use Loctite 243 on allen set screws. Make certain paddle is properly centered or full forward or reverse speed will not be obtained.

Pin Removal and Replacement**WARNING**

Always disconnect batteries before performing electrical service.

The connector and housing pictured above are representative of the housings that connect to the tiller PCB ports J7 and J8. The connector removal method shown above will be needed when replacing the following components.

- A) Emergency flasher switch
- B) Horn button
- C) Turn indicator switch
- D) Left emergency flasher/turn indicator L.E.D.
- E) Headlight switch
- F) Keyswitch

The replacement of the paddle potentiometer, right emergency flasher/ turn indicator L.E.D., voltmeter/ diagnostics PCB, and speed potentiometer can be replaced by unplugging and re-plugging the components.

Avenger Wheels and Tires:

Your Avenger tires are pneumatic. The maximum rated air pressure on all Avenger tires is 50 p.s.i. The use of foam filled or solid tires will greatly reduce scooter range and available power.



WARNING

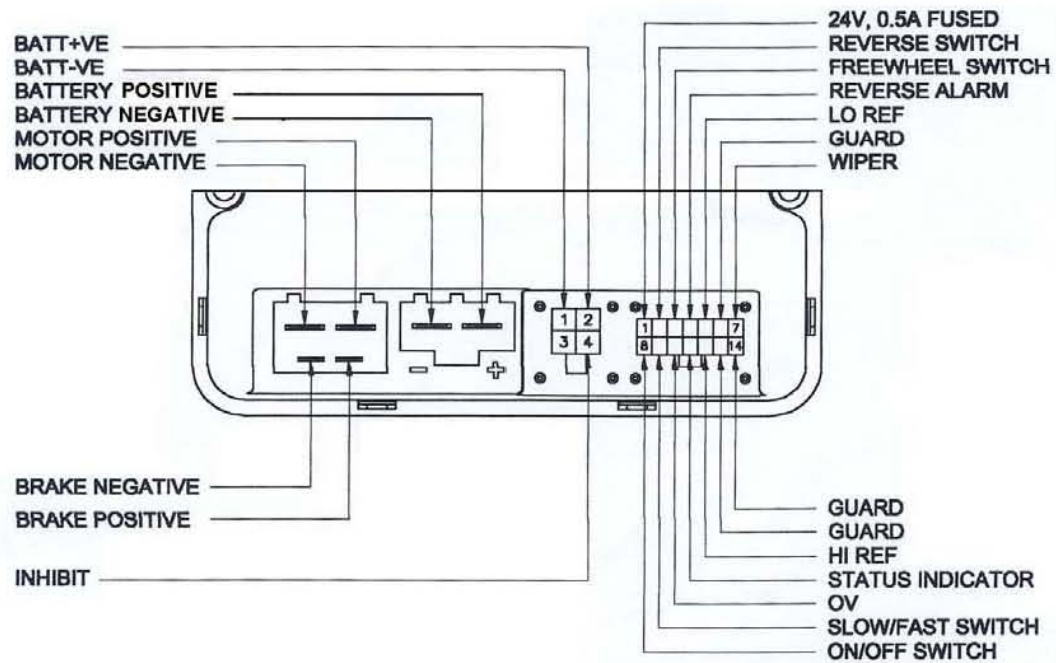
Never disassemble the tires unless all air has been released through the valve stems.

Avenger Charger/Batteries:

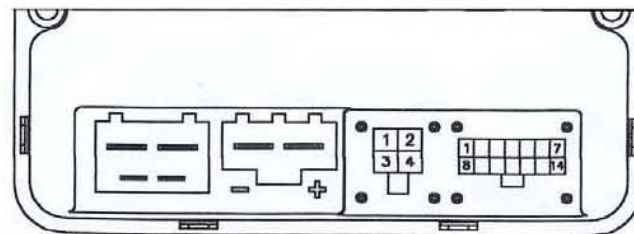
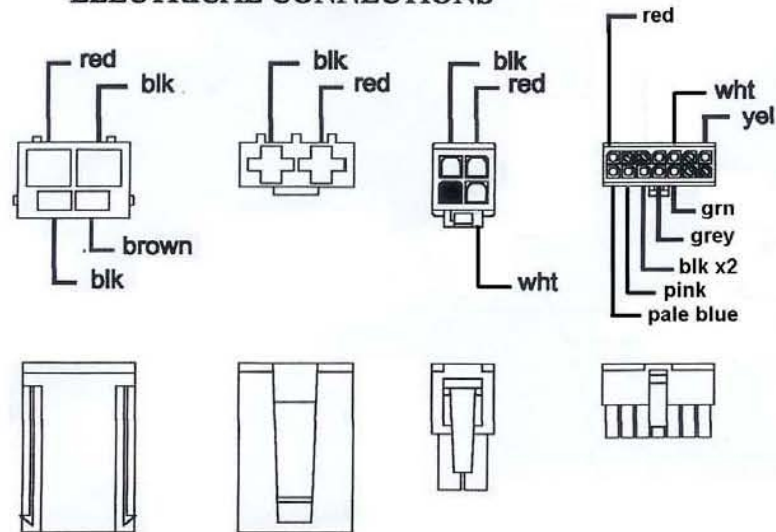
The Avenger charger is designed to charge Nf22 – 55Ah batteries. The charger has an output of 5 amps. When the charger is plugged in to the tiller port and switched on and plugged in to a 120VAC outlet 2 L.E.D.s will illuminate. The power on L.E.D. is red. The charger L.E.D. is amber until the charge is complete, when charge is complete the amber L.E.D. will turn green. If the charger L.E.D. does not illuminate the batteries are not connected.

The use of any battery other than Nf22's is not recommended. U1 type batteries are not suitable for a scooter of this size and power. When batteries are drained to 20% of their capacity they may require 8 hours to fully charge.

PG 110 AMP EGIS CONTROLLER



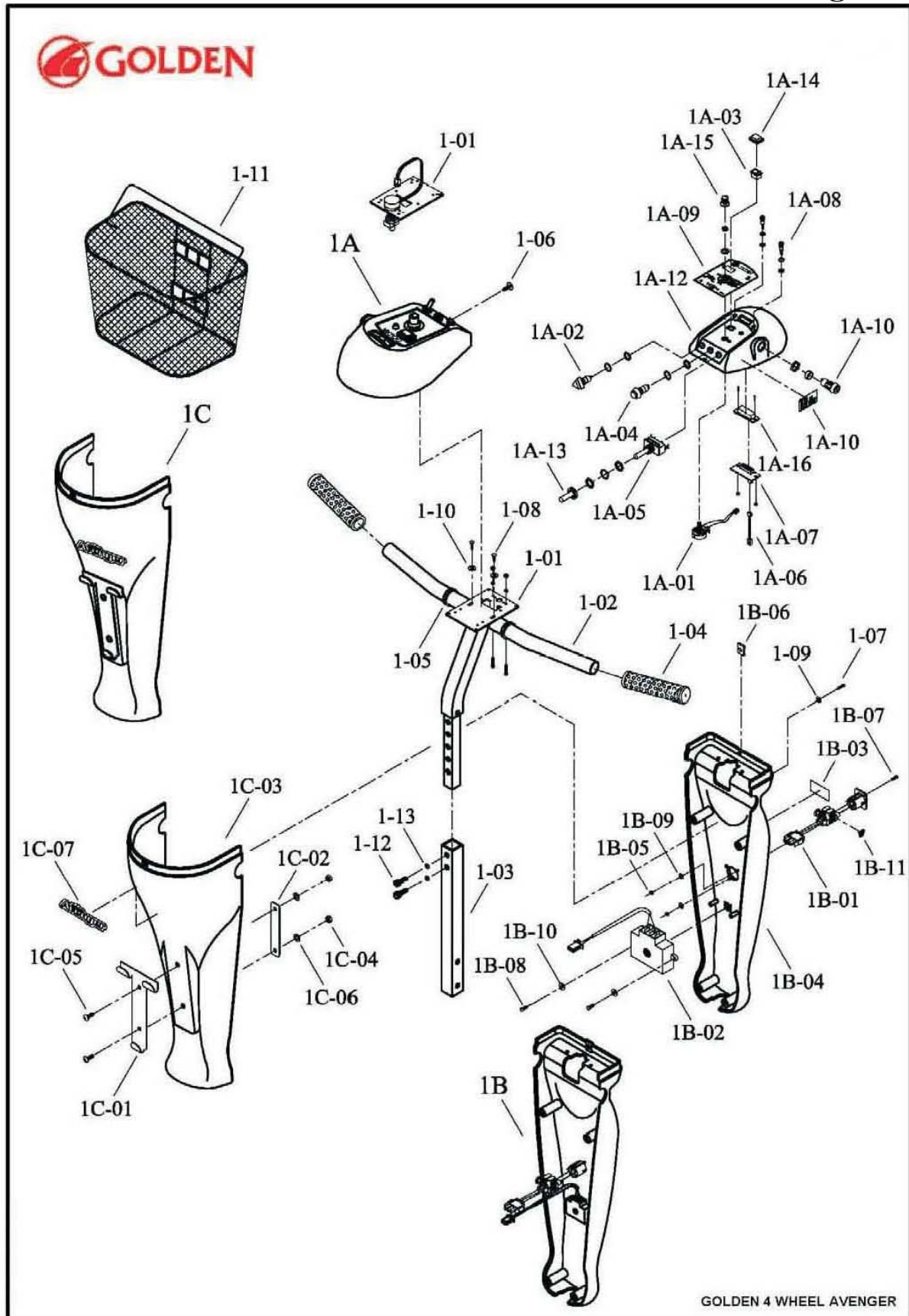
ELECTRICAL CONNECTIONS



P&G 110 CONTROLLER CONFIGURATION

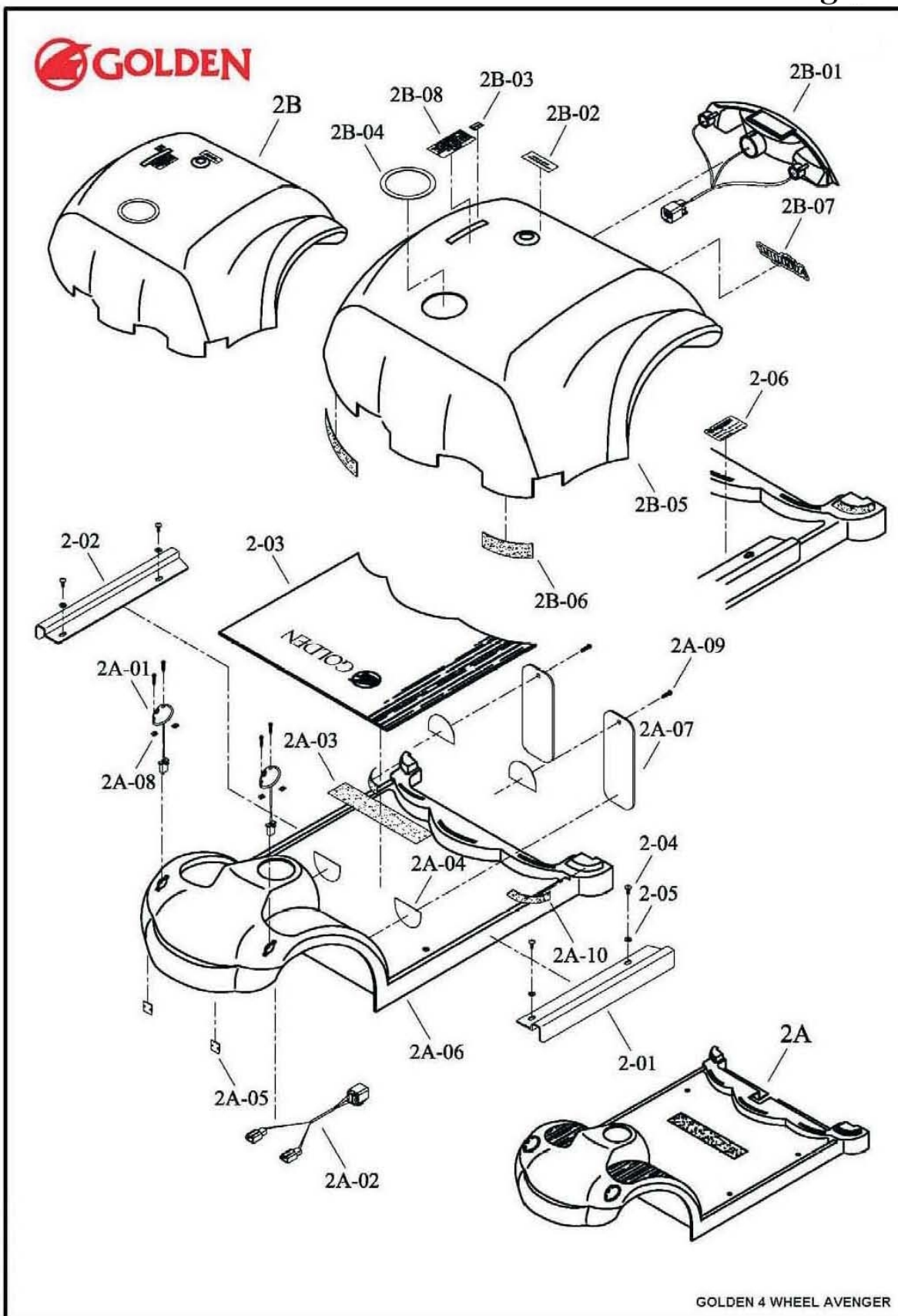
TECHNICAL SPECIFICATIONS

LENGTH	57.5"
WIDTH	25"
TIRES	
FRONT	13"X4"
REAR	13"X4"
WEIGHT CAPACITY	500 POUNDS
MAXIMUM SPEED	7.5 mph
GROUND CLEARANCE	4.25"
OPERATING RANGE	10-15 mph
TURNING RADIUS	48 1/2"
BATTERIES (2)	Nf22 12VDC 55Ah
OVERALL WEIGHT	269 pounds
WEIGHT w/o BATTERIES	191 pounds
SEAT	62.5 pounds
SEAT w/o ARMS	45.5 pounds
FREEWHEEL MODE	YES
MAXIMUM SAFE INCLINE	8 DEGREES
BRAKE	ELECTRO-MECHANICAL
CHARGER	5 AMP OFF-BOARD
REAR WHEEL DRIVE	SEALED TRANSAXLE, 24VDC 4-POLE
CONTROLLER	PG EGIS 110 AMP PROGRAMMABLE
WARRANTY-FRAME	LIMITED LIFETIME
WARRANTY-TRANSAXLE/ELECTRONICS	2 YEARS
BATTERY WARRANTY	6 MONTHS
FRONT AND REAR FLASHERS/TURN INDICATORS	YES

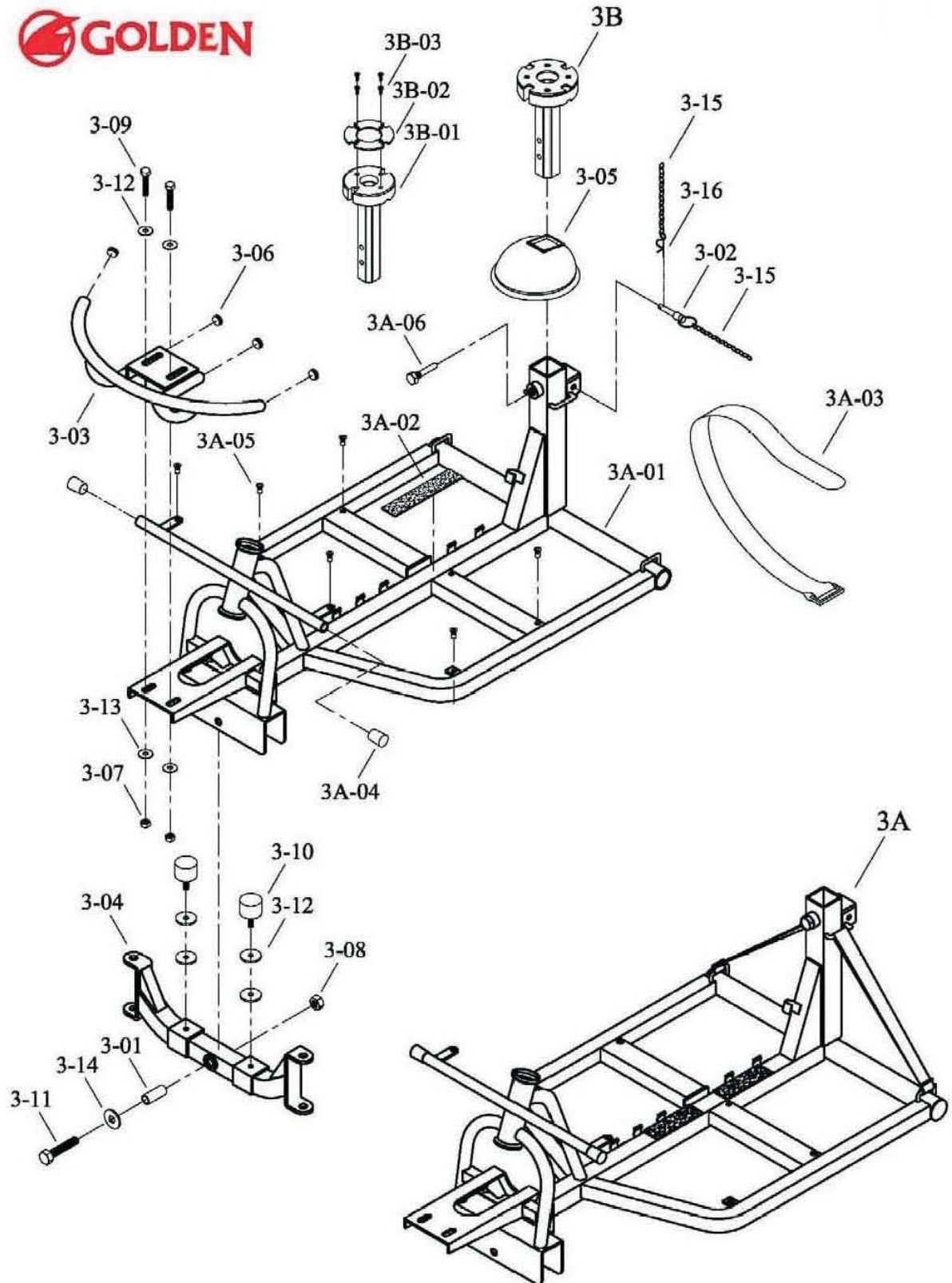


GOLDEN 4 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
1A	GAAA01-0600-S1	TOP CONSOLE COVER ASSY.
1A-01	GAPAE1-0100	VARIABLE RESISTOR 20K ASSY.
1A-02	GAPKE1-0101	WARNING SWITCH
1A-03	GAPKE1-0102	HEADLIGHT SWITCH
1A-04	GAPKE1-0103	HORN BUTTON
1A-05	GAPKE1-0105	INDICATOR SWITCH
1A-06	GAPKE1-0210	3 PIN CABLE (PG)
1A-07	GAPKE1-0701	BATTERY METER (PG)
1A-08	GAPKE1-0800	INDICATOR LED (GREEN)
1A-09	GAPL01-0110	LABEL FOR TOP CONSOLE COVER
1A-10	GAPL01-0402	CAUTION LABEL FOR TOP CONSOLE COVER
1A-11	GAPM01-0100	KEY SWITCH
1A-12	GAPP01-0106-S1	TOP CONSOLE COVER
1A-13	GAPP01-0200	INDICATOR SWITCH COVER
1A-14	GAPP01-0400	HEADLIGHT SWITCH COVER
1A-15	GAPP01-0500	SPEED KNOB
1A-16	GAPP01-0600	TILLER MODULE COVER
1B	GAAA02-0202-S1	TILLER COVER REAR ASSY.
1B-01	GAPAE1-0403-F2	CHARGER SOCKET ASSY.
1B-02	GAPKE1-0602	HORN
1B-03	GAPL02-0100	LABEL "CHARGE"
1B-04	GAPP02-0100-S1	TILLER COVER REAR
1B-05	GAPU00-0300	M3 NUT
1B-06	GAPU00-0500	M5 SPRING NUT (BLACK)
1B-07	GAPV00-0302	M3 'P0.5' 8L SCREW
1B-08	GAPV00-0306	M3.2 '19L SCREW
1B-09	GAPW00-0301	M3.1 SPRING WASHER
1B-10	GAPW00-0302	M3.4 WASHER (STEEL)
1B-11	GAPKE1-1002-1	10A FUSE
1C	GAAA03-0402-S1	TILLER COVER FRONT ASSY.
1C-01	GAPM03-0300	BASKET BRACKET
1C-02	GAPM03-0301	BASKET BRACKET BACK PLATE
1C-03	GAPP03-0100-S1	TILLER COVER FRONT
1C-04	GAPU00-0600	M6 NUT
1C-05	GAPV00-0602	M6 'P1.0' 16L SCREW

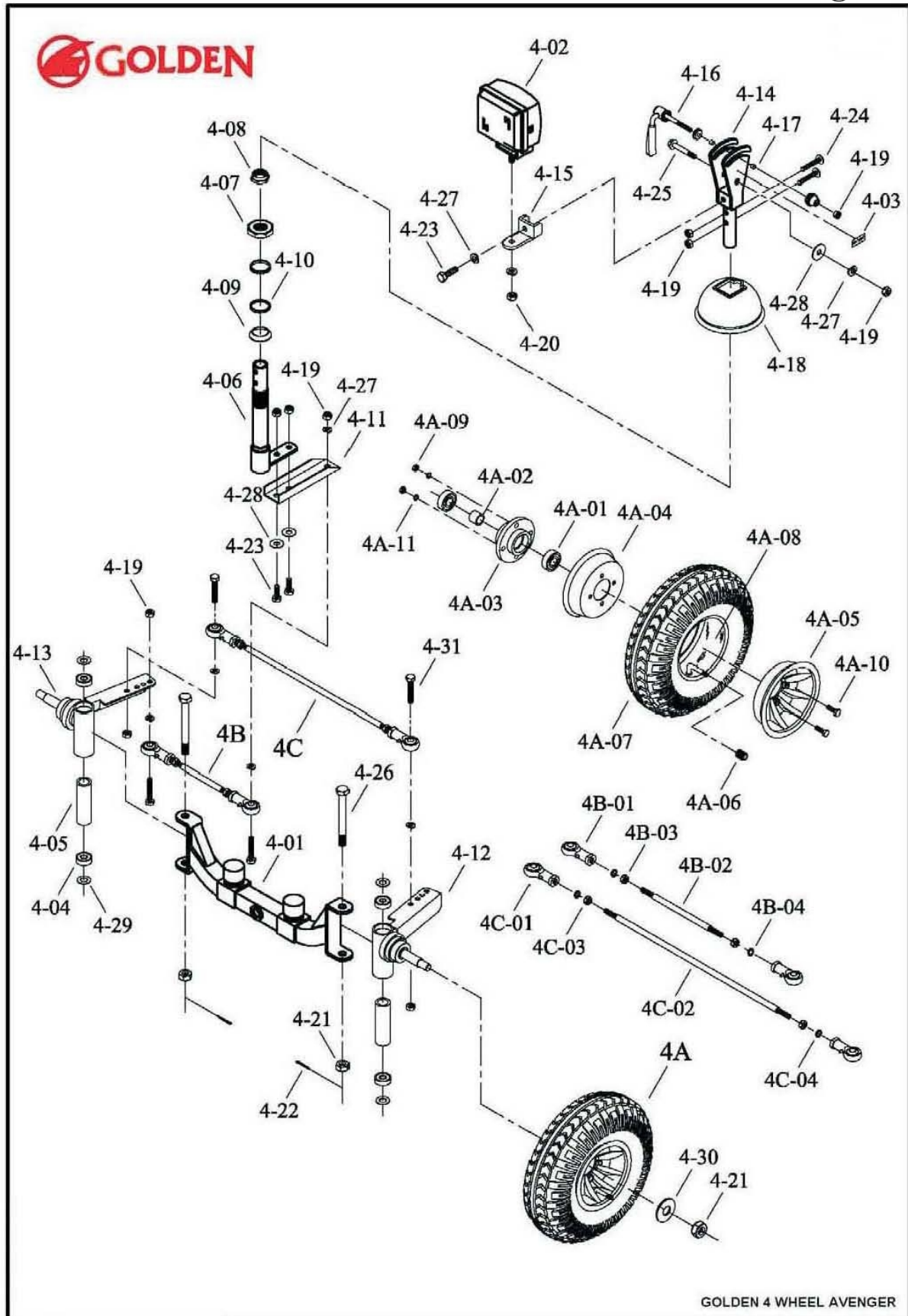
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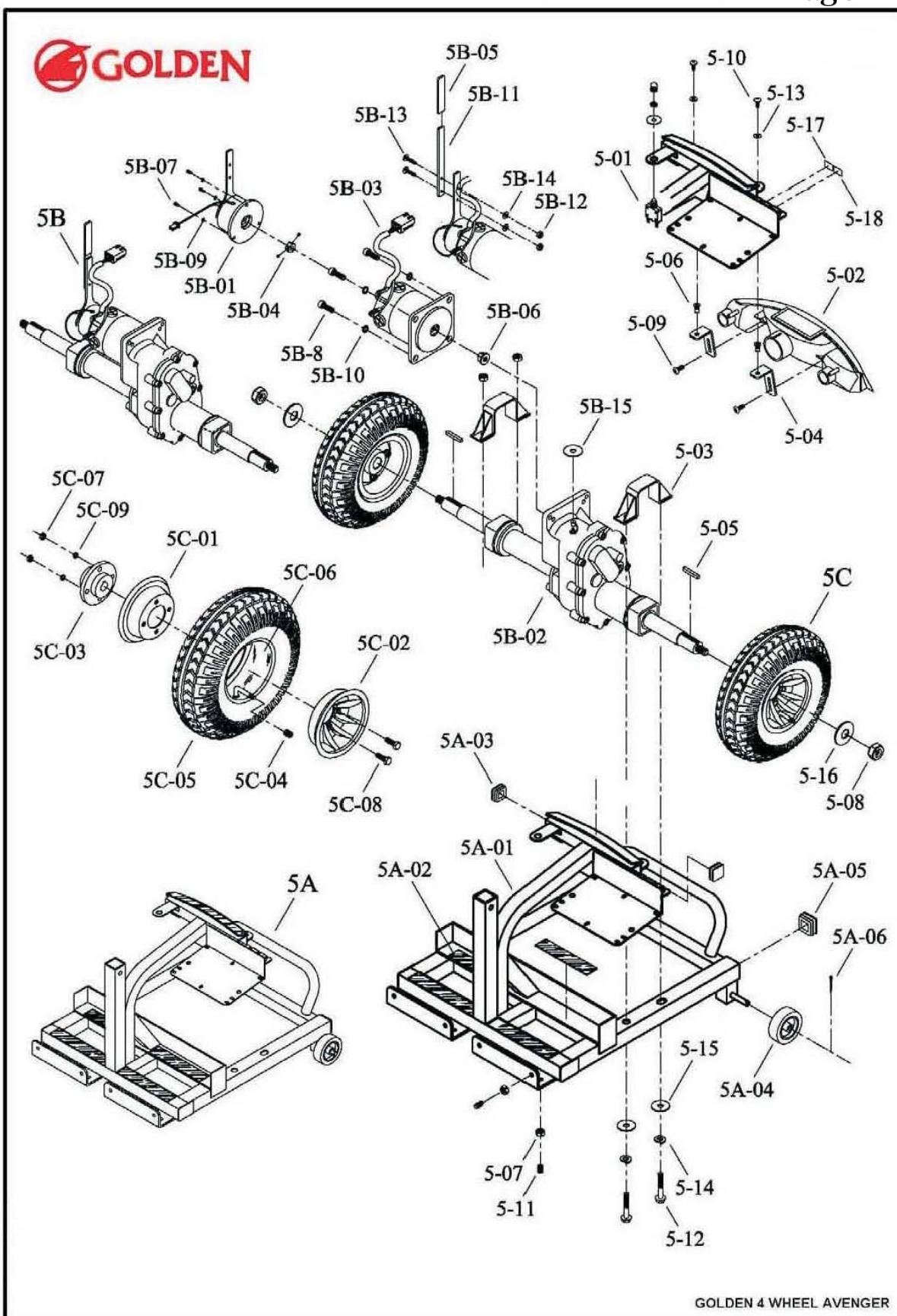


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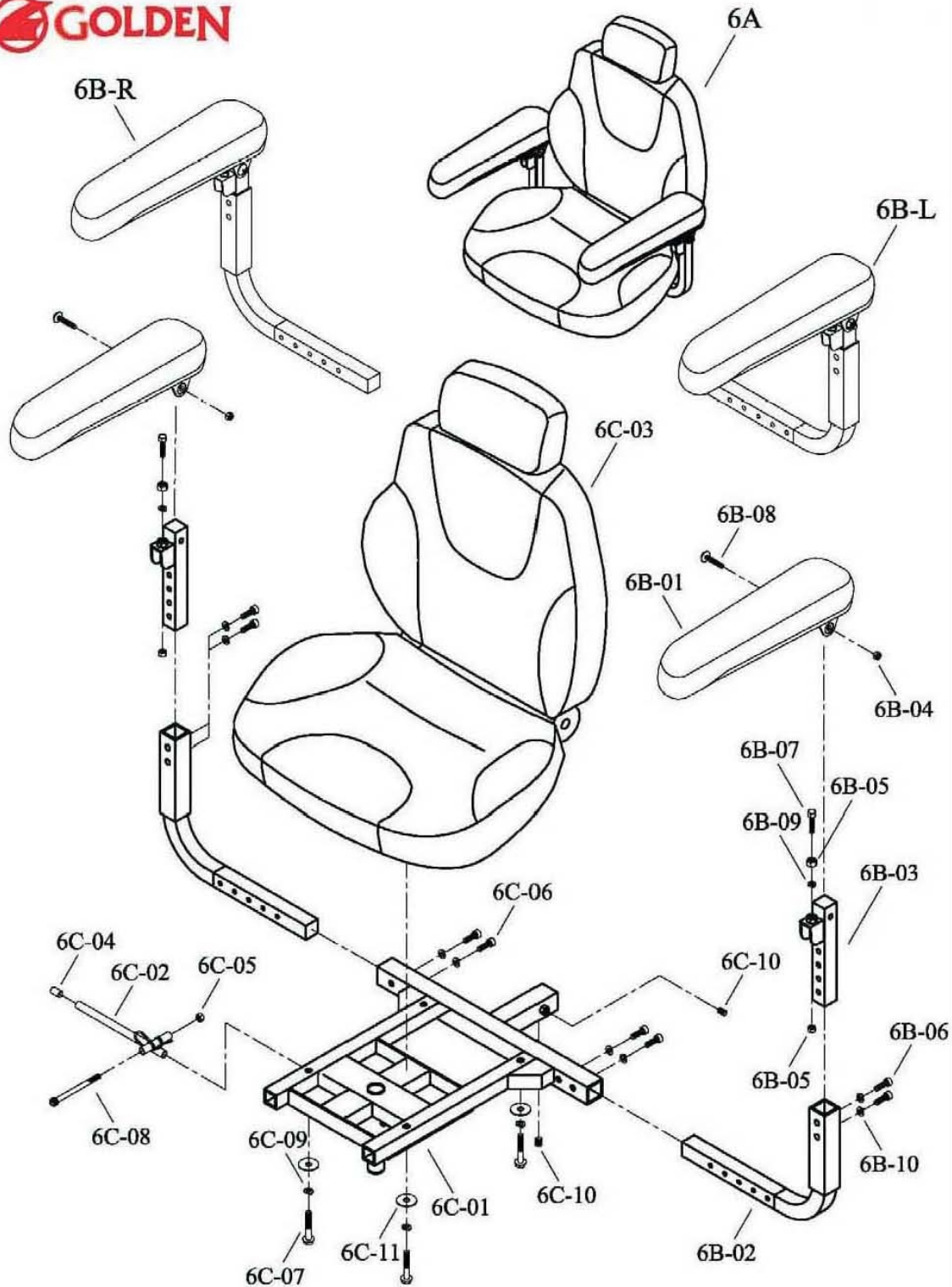
GOLDEN 4 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
4A	GAAC12-0100	FRONT WHEEL ASSY.
4A-01	GAPM00-0303	BEARING “6202ZZ”
4A-02	GAPM00-0500	SPACER
4A-03	GAPM12-0100	HUB (FRONT)
4A-04	GAPM12-0300	RIM 13"
4A-05	GAPM12-0406	RIM OUTER (AL., BLACK) 13"
4A-06	GAPP92-0001	VALVE CAP
4A-07	GAPP92-0400-GC	(4.00-5 C-154) TIRE
4A-08	GAPP93-0400-C	(4.00-5) TUBE
4A-09	GAPU00-0801	M8 NUT
4A-10	GAPV00-0806-C	M8×P1.25×25L SCREW
4A-11	GAPW00-0806	8.4 SPRING WASHER
4B	GAPA09-A201	CONNECTING ROD SHORT ASSY.
4B-01	GAPM00-0304	STEERING ROD BALL JOINT
4B-02	GAPM09-0302	CONNECTING ROD SHORT
4B-03	GAPU00-0801	M8 NUT
4B-04	GAPW00-0806	8.4 SPRING WASHER
4C	GAPA09-A203	CONNECTING ROD LONG ASSY.
4C-01	GAPM00-0304	STEERING ROD BALL JOINT
4C-02	GAPM09-0304	CONNECTING ROD LONG
4C-03	GAPU00-0801	M8 NUT
4C-04	GAPW00-0806	8.4 SPRING WASHER
4-01	GAAC09-0600	FRONT AXLE ASSY.
4-02	GAPKE3-0101	12V HEADLIGHT ASSY.
4-03	GAPL10-0100	DECAL “PATENT”
4-04	GAPM00-0302	BEARING “6001ZZ”
4-05	GAPM00-0305	SPACER LONG
4-06	GAPM08-0304	STEERING SHAFT
4-07	GAPM08-0600	BEARING CAP NUT
4-08	GAPM08-0700	BEARING CONE ADJUSTABLE
4-09	GAPM08-0800	CONE
4-10	GAPM08-0900	BEARING
4-11	GAPM08-1003-D1	PLATE
4-12	GAPM09-0103-L	STEERING SHAFT LEFT
4-13	GAPM09-0103-R	STEERING SHAFT RIGHT

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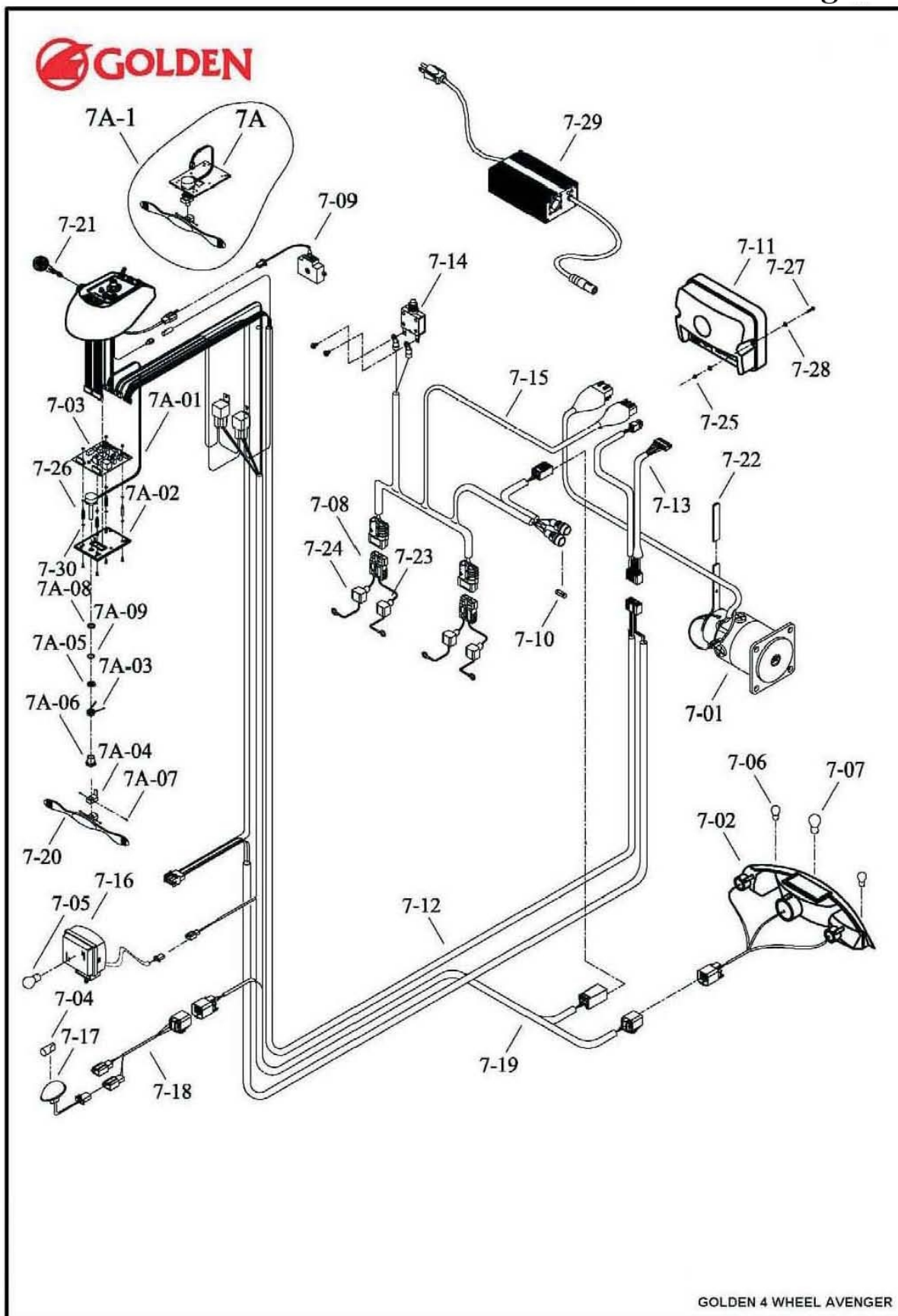


GOLDEN 4 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
5A	GAAB07-1200	REAR FRAME ASSY.
5A-01	GAPM07-0112	REAR FRAME ASSY.
5A-02	GAPP00-0100	PAD
5A-03	GAPP91-2501	SQUARE TUBE PLUG
5A-04	GAPP07-0101	ANTI-TIP WHEEL 76MM
5A-05	GAPP91-3001	30x30 SQUARE TUBE PLUG
5A-06	GAPV00-0003	SPLIT PIN
5B	GAAC11-0900	103 TRANS AXLE ASSY. (22MM)
5B-01	GAPM11-0104	ELECTRO MAGNETIC BRAKE
5B-02	GAPM11-0209	103 TRANS AXLE (22MM)
5B-03	GAPM11-0308-S53	MOTOR
5B-04	GAPM11-0802	MOTOR HEX NUT
5B-05	GAPP11-0301	BRAKE HANDLE COVER
5B-06	GAPP11-0500	SHAFT BUSHING
5B-07	GAPV00-0401	M4xP0.7x12L SCREW
5B-08	GAPV00-0805-D	M8xP1.25x20L BOLT SOCKET
5B-09	GAPW00-0401	4 . 2 SPRING WASHER
5B-10	GAPW00-0806	8 . 4 SPRING WASHER
5B-11	GAPM11-0503	FREE WHEEL HANDLE
5B-12	GAPU00-0402	M4 NUT
5B-13	GAPV00-0403	M4xP0.7x15L SCREW
5B-14	GAPW00-0404	M5 WASHER (STEEL)
5B-15	GAPL05-0402-1	LABEL
5C	GAAC13-0101	D22 REAR WHEEL ASSY.
5C-01	GAPM12-0300	RIM 13"
5C-02	GAPM12-0406	RIM OUTER (AL., BLACK)
5C-03	GAPM13-0103	HUB 22mm (REAR)
5C-04	GAPP92-0001	VALVE CAP
5C-05	GAPP92-0400-GC	TIRE
5C-06	GAPP93-0400-C	TUBE
5C-07	GAPU00-0801	M8 NUT
5C-08	GAPV00-0806-C	M8'P1.25'25L SCREW
5C-09	PW00-0806	M8.4 SPRING WASHER
5-01	PKE2-0402	CIRCUIT BREAKER 50A
5-02	PA07-A200	REAR LIGHT ASSY.

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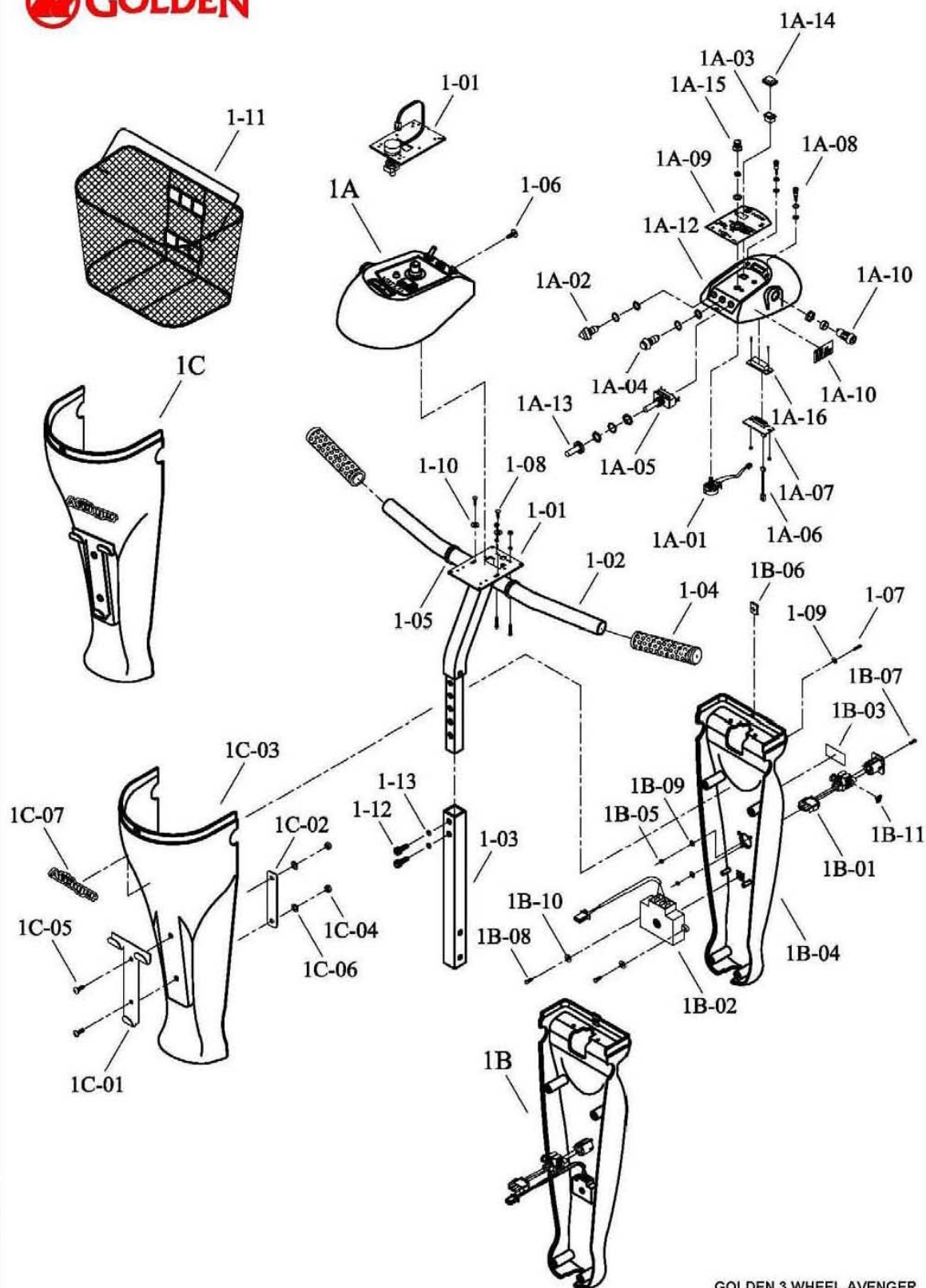


GOLDEN 4 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
7A-1	GAPA02-A100-A	5KVR POTENTIOMETER ASSY (COMPLETE)
7A	GAPA02-A100	5KVR POTENTIOMETER ASSY.
7A-01	GAPAE1-0201	POTENTIOMETER ASSY.
7A-02	GAPM02-0100	POTENTIOMETER MOUNTING PLATE
7A-03	GAPM02-0200	SPRING
7A-04	GAPM02-0600	5KVR FORK
7A-05	GAPU00-0900	M9.5×P0.7 NUT
7A-06	GAPV00-0005	5KVR SPACER
7A-07	GAPV00-0501	M5×P0.8 SOCKET SCREW
7A-08	GAPW00-0901	9.2 WAVE WASHER
7A-09	GAPW00-1002	9.75 SPRING WASHER
7-01	GAPA05-A105	5300RPM MOTOR ASSY.
7-02	GAPA07-A200	REAR LIGHT ASSY.
7-03	GAPAE1-0304-B1	P.C.B
7-04	GAPK00-0103	12V/5W INDICATOR LIGHT BULB
7-05	GAPK00-0106	12V/21W HEAD LIGHT BULB
7-06	GAPK00-0107	12V/5W INDICATOR LIGHT BULB
7-07	GAPK00-0108	12V/ 21/5W REAR LIGHT BULB
7-08	GAPK90-0303	BATTERY CABLE
7-09	GAPKE1-0602	HORN
7-10	GAPKE1-1003	5A FUSE
7-11	GAPKE2-0101	CONTROLLER PG 110 EGIS
7-12	GAPKE2-0208	MAIN CABLE ASSY. PG110
7-13	GAPKE2-0306	CONTROLLER PIGTAIL
7-14	GAPKE2-0402	CIRCUIT BREAKER 50AMP
7-15	GAPKE2-0506	CONNECTING CABLE
7-16	GAPKE3-0102	HEAD LIGHT ASSY.
7-17	GAPKE3-0303	INDICATOR LIGHT (ELLIPSE)
7-18	GAPKE3-0402	HEAD LIGHT CONNECTING WIRE
7-19	GAPKE3-0608-1	LIGHT CABLE
7-20	GAPM02-0303-D	WIGWAG PADDLE
7-21	GAPM90-0903	KEY
7-22	GAPP11-0301	HANDLE BAR COVER
7-23	GAPP90-0601-D	BATTERY TERMINAL (BLACK)
7-24	GAPP90-0601-R	BATTERY TERMINAL (RED)
7-25	GAPU00-0402	M4 NUT

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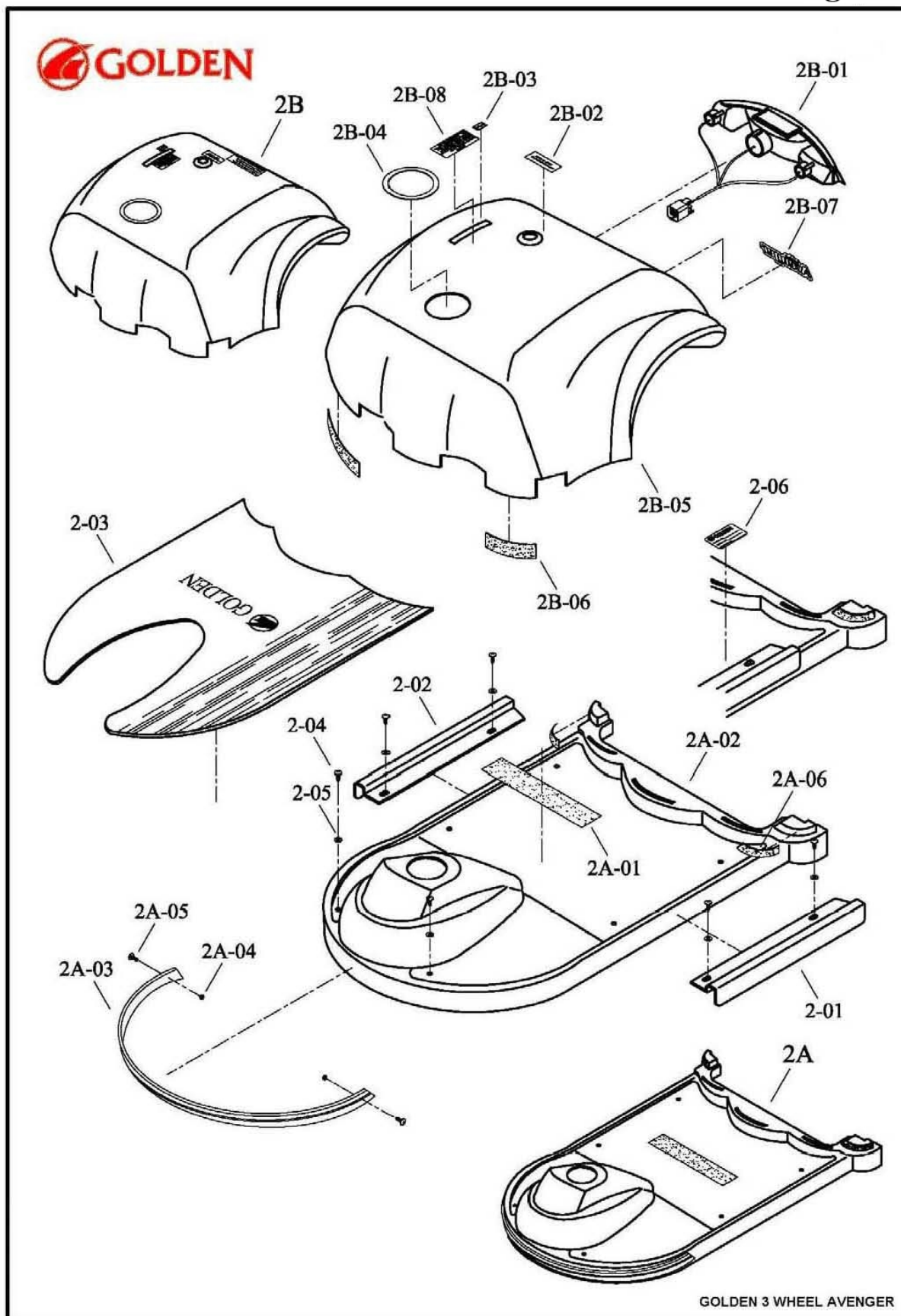
TECHNICAL SPECIFICATIONS

LENGTH	51.5"
WIDTH	25"
TIRES	
FRONT	10"X3.5"
REAR	13"X4"
WEIGHT CAPACITY	500 POUNDS
MAXIMUM SPEED	7.5 mph
GROUND CLEARANCE	4.75"
OPERATING RANGE	10-15 mph
TURNING RADIUS	42"
BATTERIES (2)	Nf22 12VDC 55Ah
OVERALL WEIGHT	245 pounds
WEIGHT w/o BATTERIES	167 pounds
SEAT	62.5 pounds
SEAT w/o ARMS	45.5 pounds
FREEWHEEL MODE	YES
MAXIMUM SAFE INCLINE	8 DEGREES
BRAKE	ELECTRO-MECHANICAL
CHARGER	5 AMP OFF-BOARD
REAR WHEEL DRIVE	SEALED TRANSAXLE, 24VDC 4-POLE
CONTROLLER	PG EGIS 110 AMP PROGRAMMABLE
WARRANTY-FRAME	LIMITED LIFETIME
WARRANTY-TRANSAXLE/ELECTRONICS	2 YEARS
BATTERY WARRANTY	6 MONTHS
REAR FLASHER/TURN INDICATORS	YES

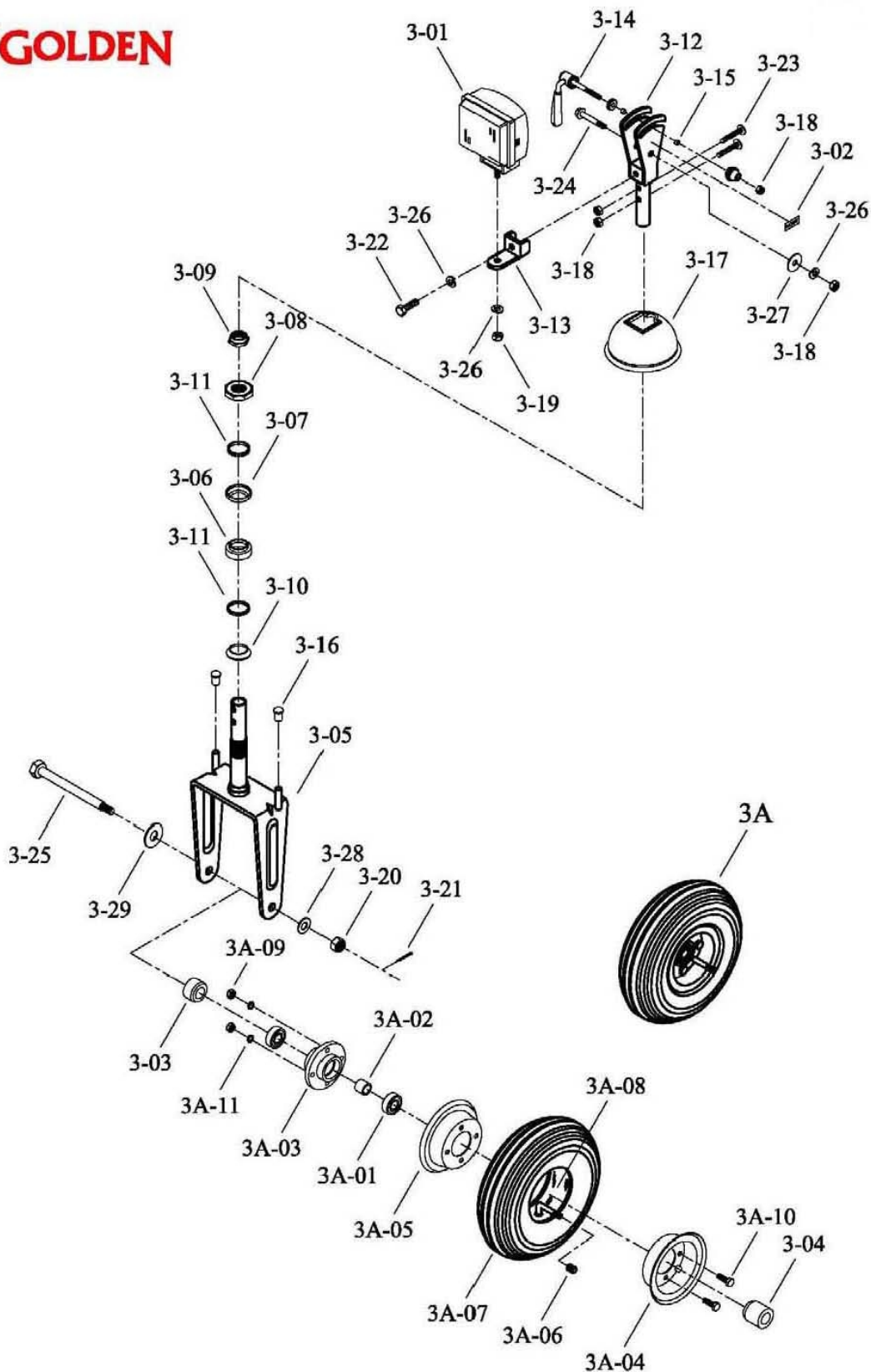


GOLDEN 3 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
1A	GAAA01-0600-S1	TOP CONSOLE COVER ASSY.
1A-01	GAPAE1-0100	VARIABLE RESISTOR 20K ASSY.
1A-02	GAPKE1-0101	WARNING SWITCH
1A-03	GAPKE1-0102	HEADLIGHT SWITCH
1A-04	GAPKE1-0103	HORN BUTTON
1A-05	GAPKE1-0105	INDICATOR SWITCH
1A-06	GAPKE1-0210	3 PIN CABLE (PG)
1A-07	GAPKE1-0701	BATTERY METER (PG)
1A-08	GAPKE1-0800	INDICATOR LED (GREEN)
1A-09	GAPL01-0110	LABEL FOR TOP CONSOLE COVER
1A-10	GAPL01-0402	CAUTION LABEL FOR TOP CONSOLE COVER
1A-11	GAPM01-0100	KEY SWITCH
1A-12	GAPP01-0106-S1	TOP CONSOLE COVER
1A-13	GAPP01-0200	INDICATOR SWITCH COVER
1A-14	GAPP01-0400	HEADLIGHT SWITCH COVER
1A-15	GAPP01-0500	SPEED KNOB
1A-16	GAPP01-0600	TILLER MODULE COVER
1B	GAAA02-0202-S1	TILLER COVER REAR ASSY.
1B-01	GAPAE1-0403-F2	CHARGER SOCKET ASSY.
1B-02	GAPKE1-0602	HORN
1B-03	GAPL02-0100	LABEL "CHARGE"
1B-04	GAPP02-0100-S1	TILLER COVER REAR
1B-05	GAPU00-0300	M3 NUT
1B-06	GAPU00-0500	M5 SPRING NUT (BLACK)
1B-07	GAPV00-0302	M3'P0.5'8L SCREW
1B-08	GAPV00-0306	M3.2'19L SCREW
1B-09	GAPW00-0301	M3.1 SPRING WASHER
1B-10	GAPW00-0302	M3.4 WASHER (STEEL)
1B-11	GAPKE1-1002-1	10A FUSE
1C	GAAA03-0402-S1	TILLER COVER FRONT ASSY.
1C-01	GAPM03-0300	BASKET BRACKET
1C-02	GAPM03-0301	BASKET BRACKET BACK PLATE
1C-03	GAPP03-0100-S1	TILLER COVER FRONT
1C-04	GAPU00-0600	M6 NUT
1C-05	GAPV00-0602	M6'P1.0'16L SCREW

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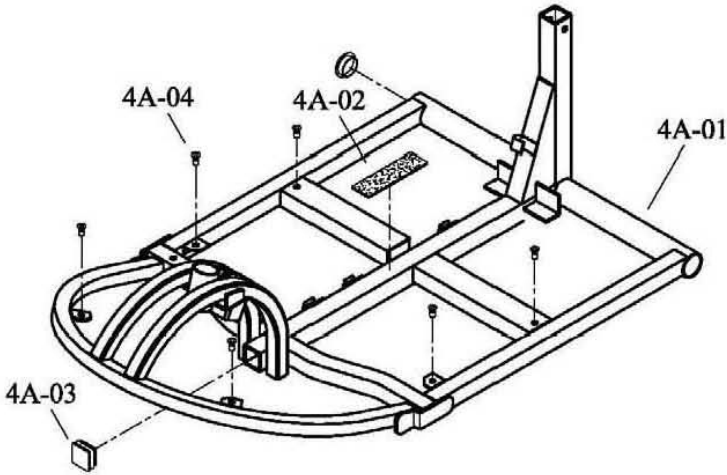
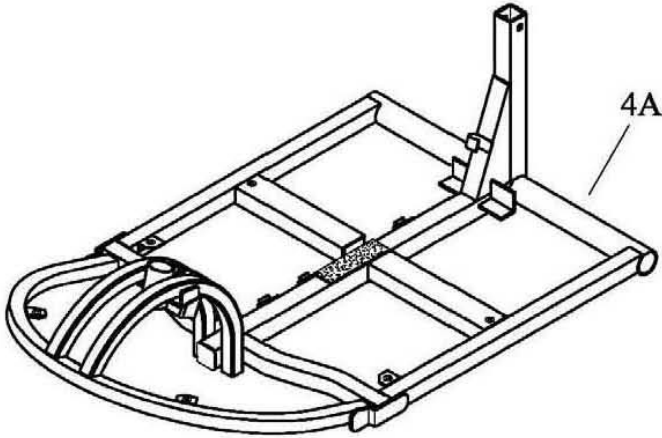


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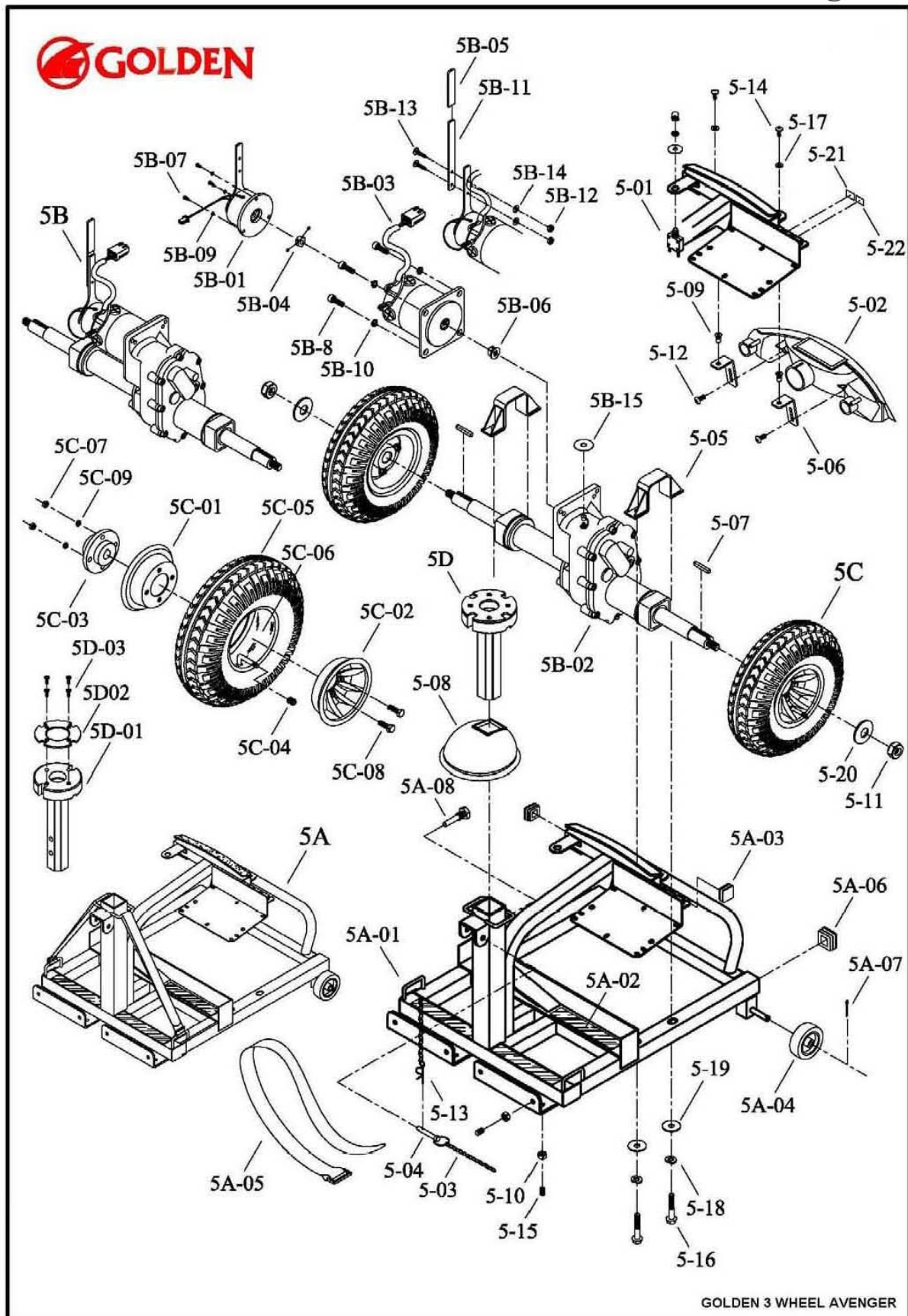


GOLDEN 3 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
3A	GAAC12-0400	FRONT WHEEL ASSY.
3A-01	GAPM00-0303	BEARING"6202ZZ"
3A-02	GAPM00-0500	BUSHING
3A-03	GAPM12-0100	HUB (FRONT)
3A-04	GAPM12-0302	RIM 10"
3A-05	GAPM12-0301	RIM OUTER 10"
3A-06	GAPP92-0001	VALVE CAP
3A-07	GAPP92-0300	(3.00~4 C-179N) TYRE
3A-08	GAPP93-0300	(3.00~4) TUBE
3A-09	GAPU00-0801	M8 NUT
3A-10	GAPV00-0805-C	M8'P1.25'20L SCREW
3A-11	GAPW00-0806	M8.4 SPRING WASHER
3-01	GAPKE3-0101	12V HEAD LIGHT ASSY.
3-02	GAPL10-0100	DECAL "PATENT"
3-03	GAPM00-0102	(Do30'Di15'15L) STEEL SPACER
3-04	GAPM00-0104	(Do30'Di15'36L) STEEL SPACER
3-05	GAPM08-0101	STEERING SHAFT
3-06	GAPM08-0400	BEARING CUP (DOWN)
3-07	GAPM08-0500	BEARING CUP (UP)
3-08	GAPM08-0600	BEARING CAP NUT
3-09	GAPM08-0700	BEARING CONE ADJUSTABLE
3-10	GAPM08-0800	CONE
3-11	GAPM08-0900	BEARING
3-12	GAPM10-0103	HANDLEBAR JOINT BASE
3-13	GAPM10-0403	HEAD LIGHT BRACKET
3-14	GAPM10-0501	M8 TIGHTENING HANDLE
3-15	GAPP00-0401	M8 TIGHTENING RING
3-16	GAPP08-0100	RUBBER COVER
3-17	GAPP10-0101	RUBBER COVER FRONT
3-18	GAPU00-0800	M8 SELF-LOCKING NUT
3-19	GAPU00-0801	M8 NUT
3-20	GAPU00-1202	M12 SELF-LOCKING NUT
3-21	GAPV00-0003	SPLIT PIN
3-22	GAPV00-0805-C	M8'P1.25'20L SCREW
3-23	GAPV00-0807-A	M8'P1.25'35L SCREW

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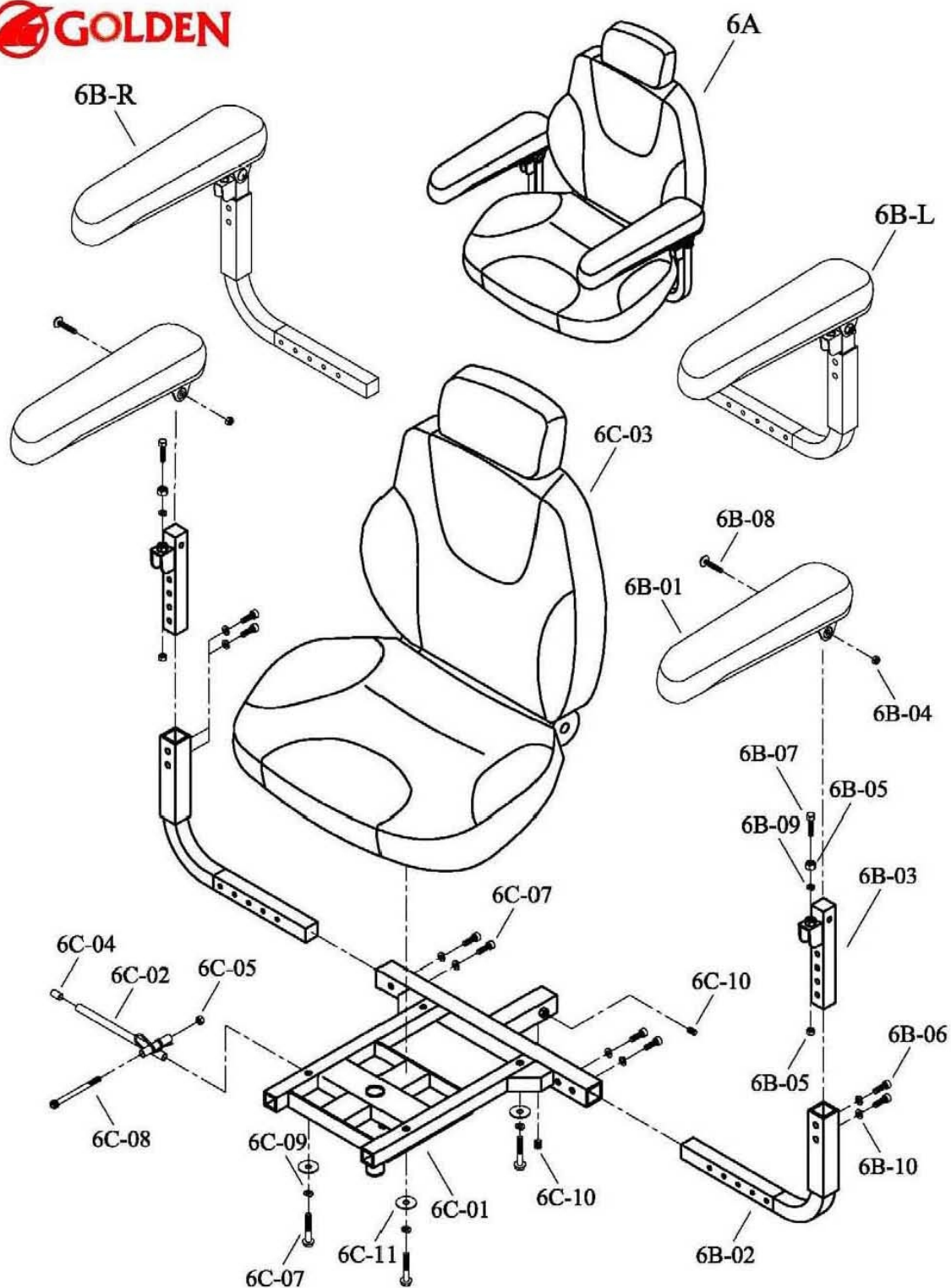


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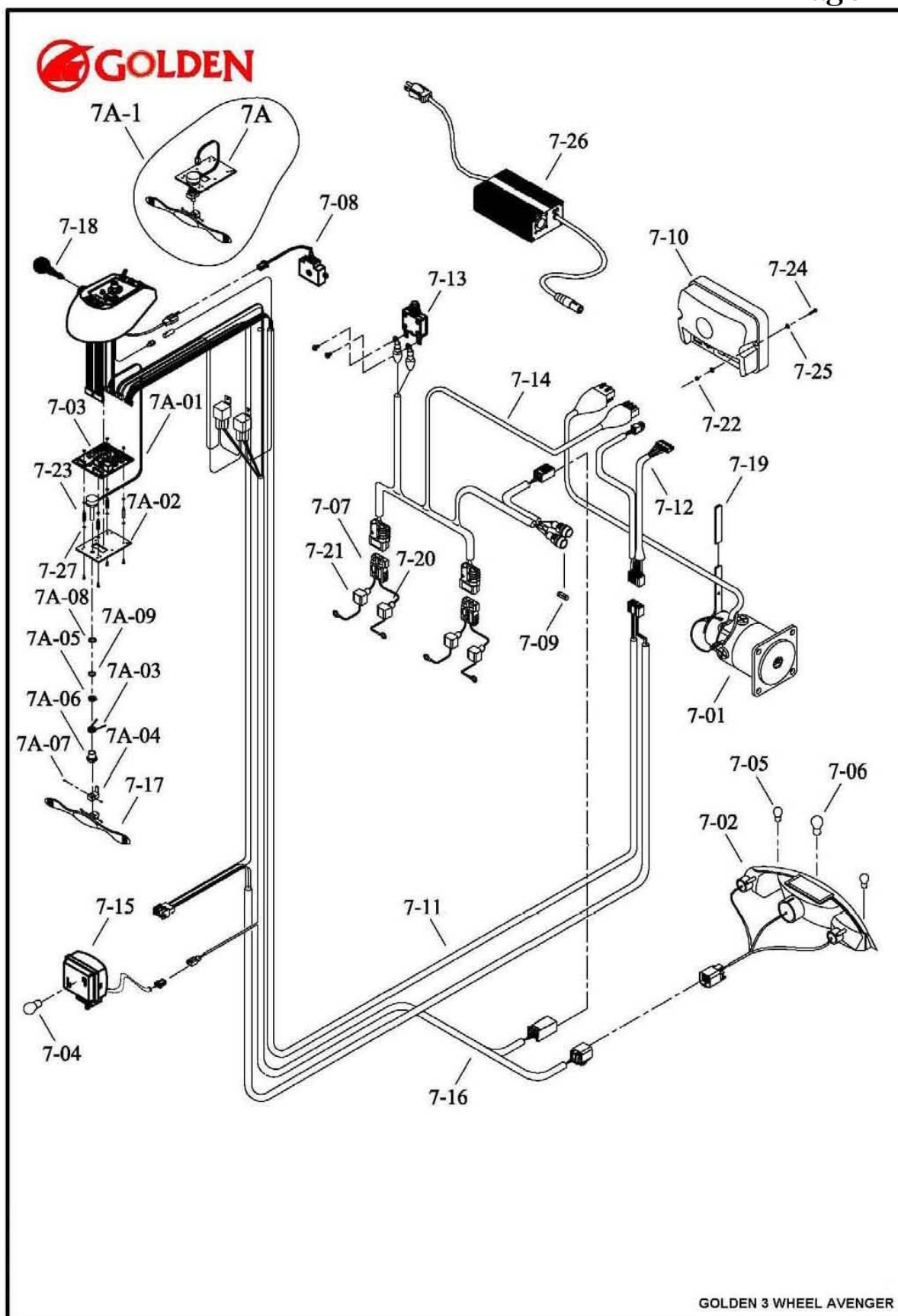


GOLDEN 3 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
5A	GAAB07-1100	REAR FRAME ASSY.
5A-01	GAPM07-0114	REAR FRAME
5A-02	GAPP00-0100	PAD
5A-03	GAPP91-2501	SQUARE TUBE PLUG
5A-04	GAPP07-0101	ANTI-TIP WHEEL 76MM
5A-05	GAPP90-0401	BATTERY HOLD DOWN STRAP (S)
5A-06	GAPP91-3001	30×30 SQUARE TUBE PLUG
5A-07	GAPV00-0003	SPLIT PIN
5A-08	GAPV00-0702-1	7/16×8×48L BOLT
5B	GAAC11-0900	103 TRANSAXLE ASSY. (22MM)
5B-01	GAPM11-0104	ELECTRO MAGNETIC BRAKE
5B-02	GAPM11-0209	103 TRANSAXLE (22MM)
5B-03	GAPM11-0308-S53	MOTOR
5B-04	GAPM11-0802	MOTOR BRAKE HEX NUT
5B-05	GAPP11-0301	BRAKE HANDLE COVER
5B-06	GAPP11-0500	SHAFT BUSHING
5B-07	GAPV00-0401	M4×P0.7×12L SCREW
5B-08	GAPV00-0805-D	M8×P1.25×20L BOLT SOCKET
5B-09	GAPW00-0401	4.2 SPRING WASHER
5B-10	GAPW00-0806	8.4 SPRING WASHER
5B-11	GAPM11-0503	BRAKE HANDLE EXTENSION
5B-12	GAPU00-0402	M4 NUT
5B-13	GAPV00-0403	M4×P0.7×15L SCREW
5B-14	GAPW00-0404	M5 WASHER (STEEL)
5B-15	GAPL05-0402-1	LABEL
5C	GAAC13-0101	D22 REAR WHEEL ASSY.
5C-01	GAPM12-0300	RIM 13"
5C-02	GAPM12-0406	RIM OUTER (AL., BLACK)
5C-03	GAPM13-0103	HUB 22mm (REAR)
5C-04	GAPP92-0001	VALVE CAP
5C-05	GAPP92-0400-GC	TIRE
5C-06	GAPP93-0400-C	TUBE
5C-07	GAPU00-0801	M8 NUT
5C-08	GAPV00-0806-C	M8'P1.25'25L SCREW

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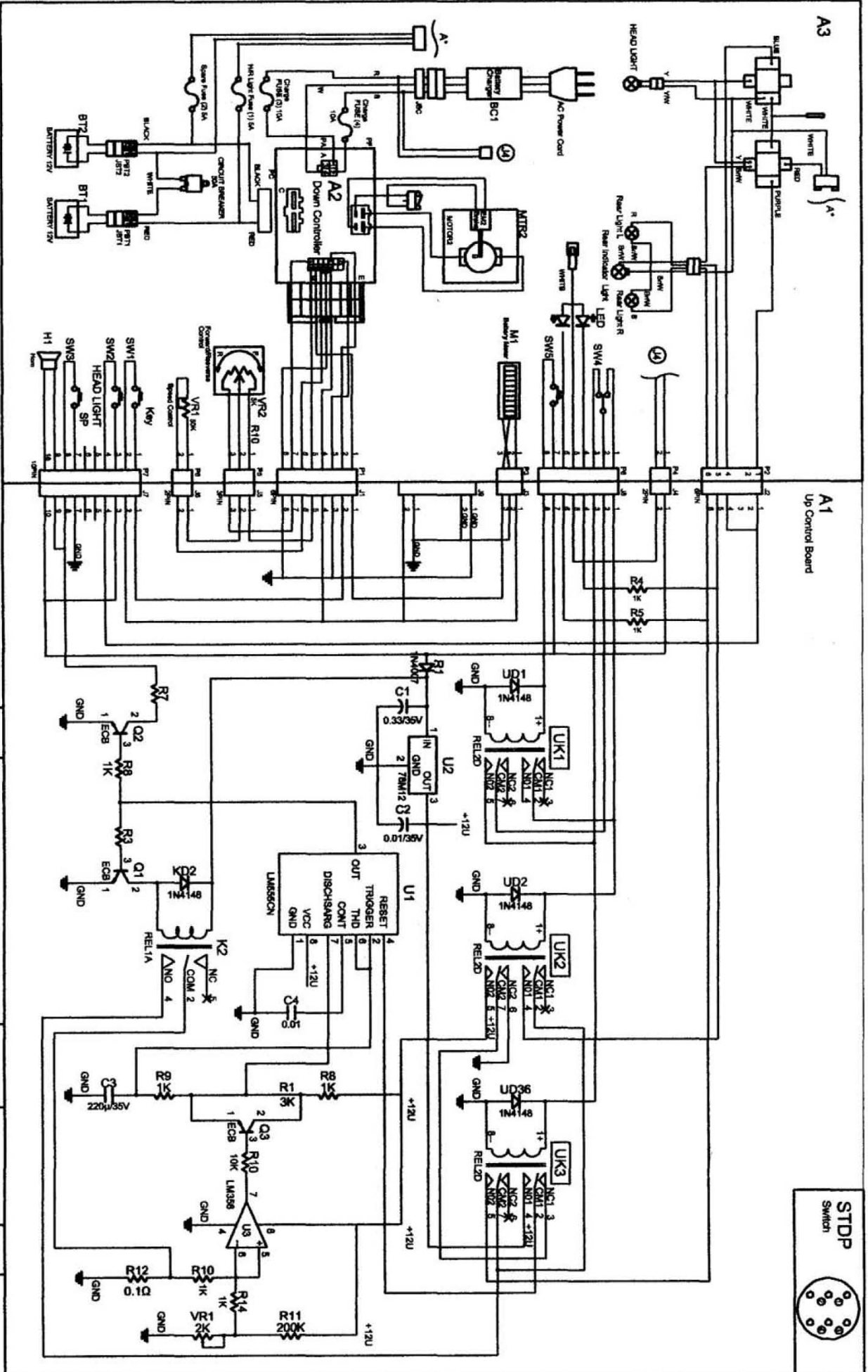
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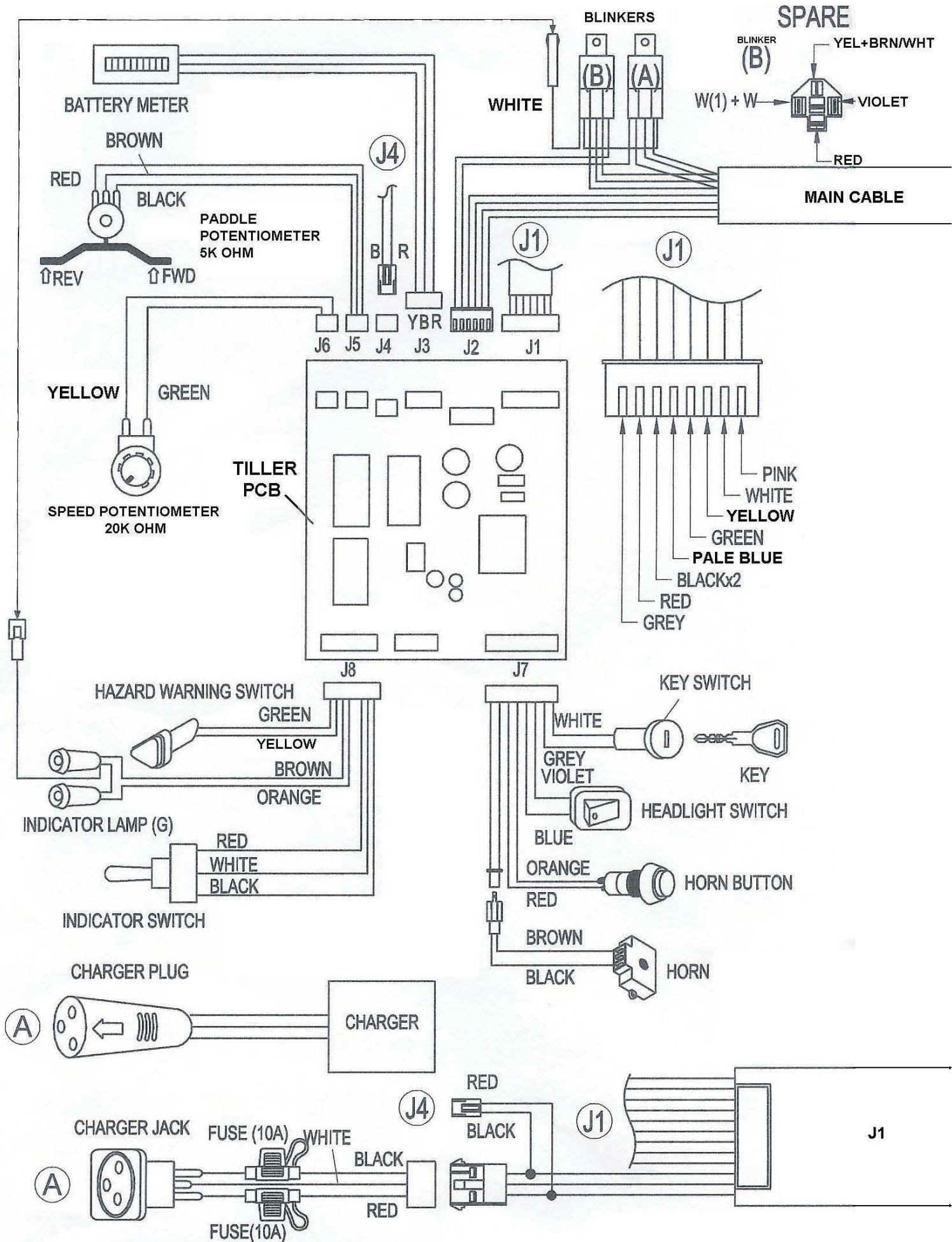


GOLDEN 3 WHEEL AVENGER		
DRAWING NO.	PART NO.	PARTS NAME
7A-1	GAPA02-A100-A	5KVR POTENTIOMETER ASSY.
7A	GAPA02-A100	5KVR POTENTIOMETER
7A-01	GAPAE1-0201	POTENTIOMETER ASSY.
7A-02	GAPM02-0100	POTENTIOMETER MOUNTING PLATE
7A-03	GAPM02-0200	SPRING
7A-04	GAPM02-0600	5KVR FORK
7A-05	GAPU00-0900	M9.5×P0.7 NUT
7A-06	GAPV00-0005	5KVR SPACER
7A-07	GAPV00-0501	M5×P0.8 SOCKET SCREW
7A-08	GAPW00-0901	9.2 WAVE WASHER
7A-09	GAPW00-1002	9.75 SPRING WASHER
7-01	GAPA05-A105	5300RPM MOTOR ASSY.
7-02	GAPA07-A200	REAR LIGHT ASSY.
7-03	GAPAE1-0304-B1	P.C.B
7-04	GAPK00-0106	12V/21W HEADLIGHT BULB
7-05	GAPK00-0107	12V/5W INDICATOR LIGHT BULB
7-06	GAPK00-0108	12V 21/5W REAR LIGHT BULB
7-07	GAPK90-0303	BATTERY CABLE
7-08	GAPKE1-0602	HORN
7-09	GAPKE1-1003	5A FUSE
7-10	GAPKE2-0101	CONTROLLER PG 110 EGIS
7-11	GAPKE2-0208	MAIN CABLE ASSY. PG110
7-12	GAPKE2-0306	MAIN CABLE FOR CONTROLLER
7-13	GAPKE2-0402	CIRCUIT BREAKER 50AMP
7-14	GAPKE2-0506	CONNECTING CABLE
7-15	GAPKE3-0101	HEADLIGHT ASSY.
7-16	GAPKE3-0608-2	LIGHT CABLE
7-17	GAPM02-0303-D	WIG-WAG PADDLE
7-18	GAPM90-0903	KEY
7-19	GAPP11-0301	BRAKE HANDLE COVER
7-20	GAPP90-0601-D	BATTERY TERMINAL (BLACK)
7-21	GAPP90-0601-R	BATTERY TERMINAL (RED)
7-22	GAPU00-0402	M4 NUT
7-23	GAPV00-0301	M3×20×6 COPPER SCREW
7-24	GAPV00-0404	M4×P0.7×25L SCREW

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GOLDEN AVENGER 3 AND 4 WHEELER





GOLDEN AVENGER 3 AND 4 WHEELER

HEAD / REAR BLINKER/FLASHER

