



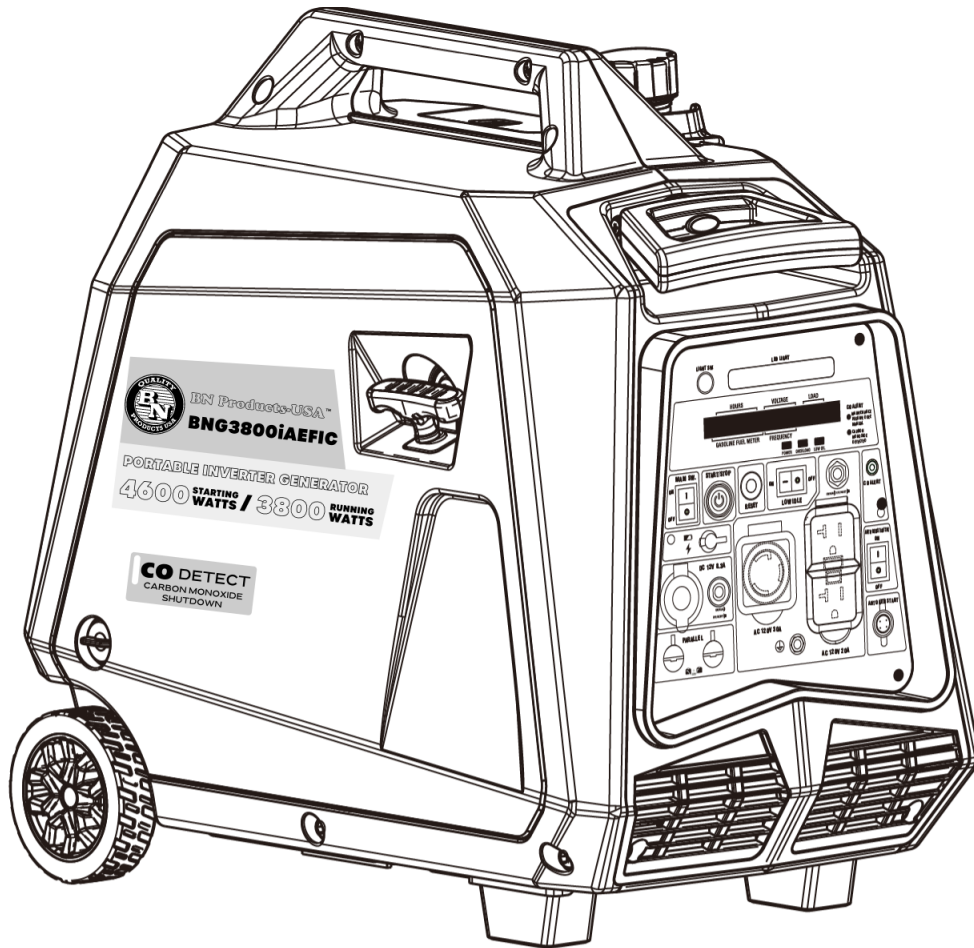
**BN Products-USA™**

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# INVERTER GENERATOR BNG3800iAEFIC

## Product Parts Guide



BNG3800iAEFIC INVERTER GENERATOR | SERIAL NUMBER

S/N #

MODEL  
INFO

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### GENERATOR PARTS GUIDE

This manual lists service replacement parts for the generator set model as listed on this document. Information in this publication represents data available at the time of print. BN Products-USA™, a division of Benner-Nawman, Inc., reserves the right to change this publication and the products represented, without notice and without any obligation or liability, real or implied.



**BN Products-USA™**

3450 N Sabin Brown Road  
Wickenburg, AZ 85390

(800) 992-3833  
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## Customer Service Information

### **BN Products-USA™** **Customer Service**

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Replacement parts can be purchased from BN Products-USA™ by calling our customer service at 1-800-992-3833, M-F 8:00am-4:30pm MST. Parts and accessories that wear down over the course of normal use are **not** covered by the limited manufacturer warranty.

### **Product Part Numbers**

Benner-Newman companies operate in United States, Canada, Central America and the Caribbean.

Our corporate offices and warehouse facilities are located in a 56,000 square foot location in Wickenburg, Arizona. There is ample room within the facility for maintaining product inventory, parts, and performing warranty services and equipment repairs.

Part Numbers contained within this Guide are unique to BN Products-USA™. Such part numbers are not universal identifiers that can to be directly referenced by non-OEM, third-party, or after-market parts suppliers.

## Modules: Parts Listings & Drawings

### 1 - Crankcase

| # | Part Number | Description       | Qty | #  | Part Number | Description          | Qty |
|---|-------------|-------------------|-----|----|-------------|----------------------|-----|
| 1 | 102873      | Crankcase         | 1   | 7  | 102875      | Lower wind deflector | 1   |
| 2 | 102803      | Dipstick assembly | 1   | 8  | 102238      | Crimping board       | 1   |
| 3 | 102233      | Locating pin 8×12 | 2   | 9  | 102170      | Bolt M6×12           | 2   |
| 4 | 102234      | Crankcase gasket  | 1   | 10 | 102239      | Oil seal 25×41.25×6  | 1   |
| 5 | 102806      | Bearing 6205      | 1   | 11 | 102240      | Bolt M6×25           | 7   |
| 6 | 102874      | Crankcase cover   | 1   | 12 | 102804      | Temperature Sensor   | 1   |

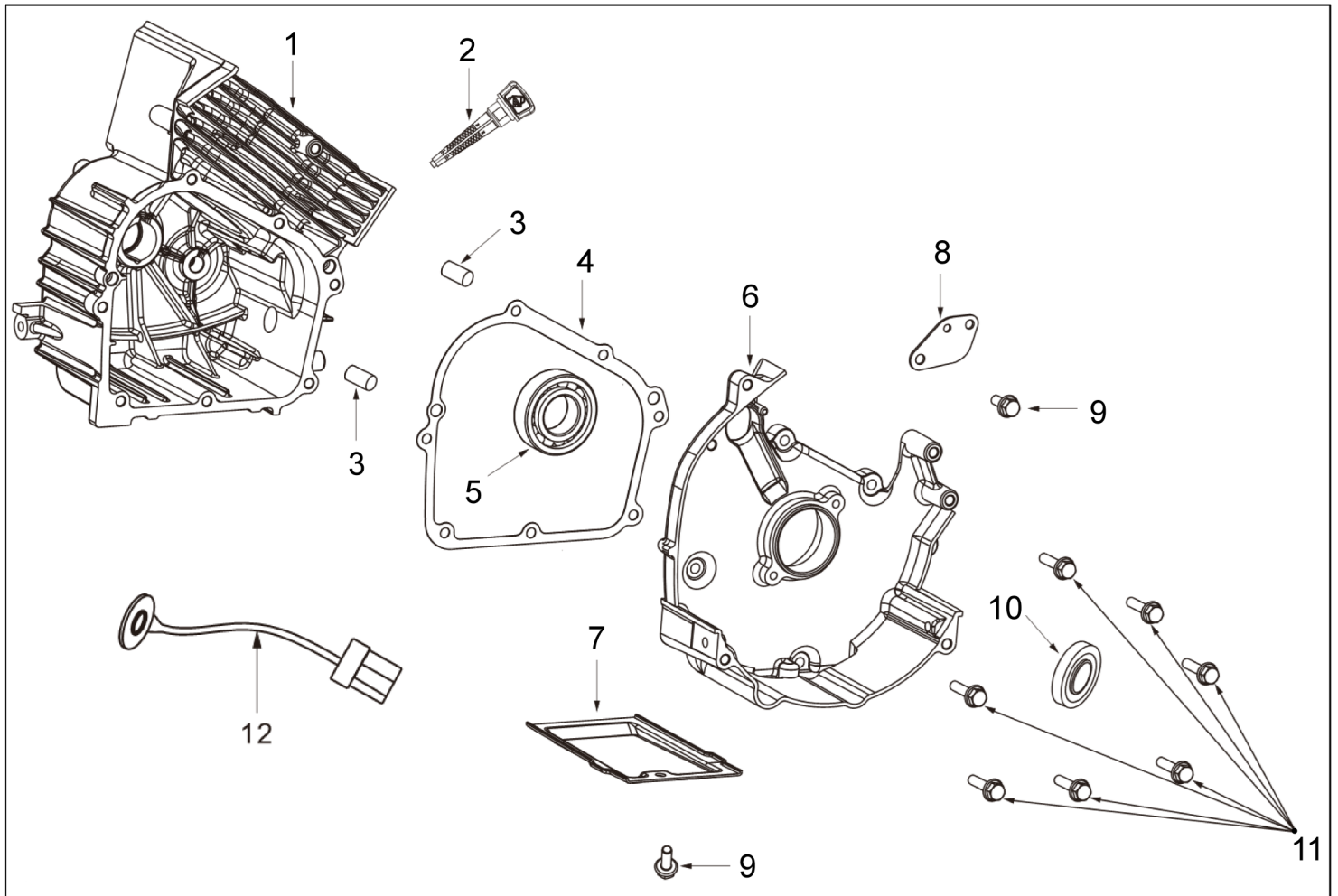


Figure 1 - Crankcase

## 2 - Cylinder Head Cover

| # | Part Number | Description                | Qty | #  | Part Number | Description          | Qty |
|---|-------------|----------------------------|-----|----|-------------|----------------------|-----|
| 1 | 102191      | Bolt M6×18                 | 4   | 10 | 102180      | PISTON ROD CLIP      | 1   |
| 2 | 102172      | Cylinder head cover        | 1   | 11 | 102876      | Cylinder head        | 1   |
| 3 | 102173      | Oil screen 45×25×12.5      | 1   | 12 | 102877      | STUD BOLT M6X102     | 2   |
| 4 | 102174      | Gasket Seal                | 1   | 13 | 102878      | Gasket,Cylinder head | 1   |
| 5 | 102175      | Breather valve cover plate | 1   | 14 | 102184      | PIN 10X14            | 2   |
| 6 | 102176      | Cross head screw 4×8       | 4   | 15 | 102879      | Exhaust port gasket  | 1   |
| 7 | 102177      | Cylinder head cover pad    | 1   | 16 | 102880      | Stud Bolt M8 x 95    | 2   |
| 8 | 102811      | Bolt M8×60                 | 4   | 17 | 102187      | AIR DEFLECTOR        | 1   |
| 9 | 102179      | Spark plug                 | 1   |    |             |                      |     |

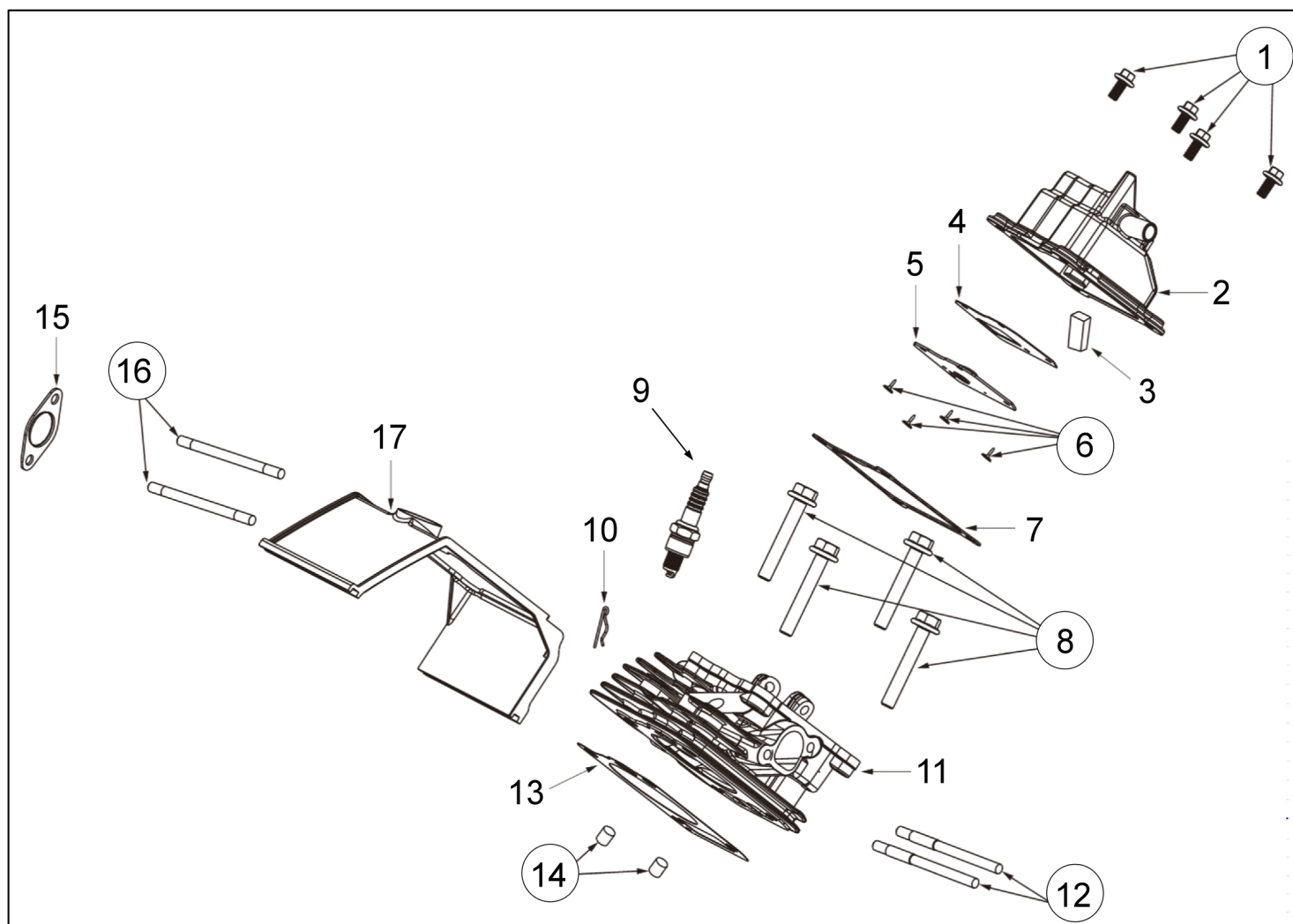


Figure 2 - Cylinder Head Cover



### 3 - Rotor and Stator

| # | Part Number | Description  | Qty | # | Part Number | Description     | Qty |
|---|-------------|--------------|-----|---|-------------|-----------------|-----|
| 1 | 102881      | Motor stator | 1   | 5 | 102168      | Impeller        | 1   |
| 2 | 102816      | Bolt         | 2   | 6 | 102169      | Starting sleeve | 1   |
| 3 | 102882      | Motor rotor  | 1   | 7 | 102170      | BOLT M6X12      | 2   |
| 4 | 102167      | Locking Nut  | 1   |   |             |                 |     |

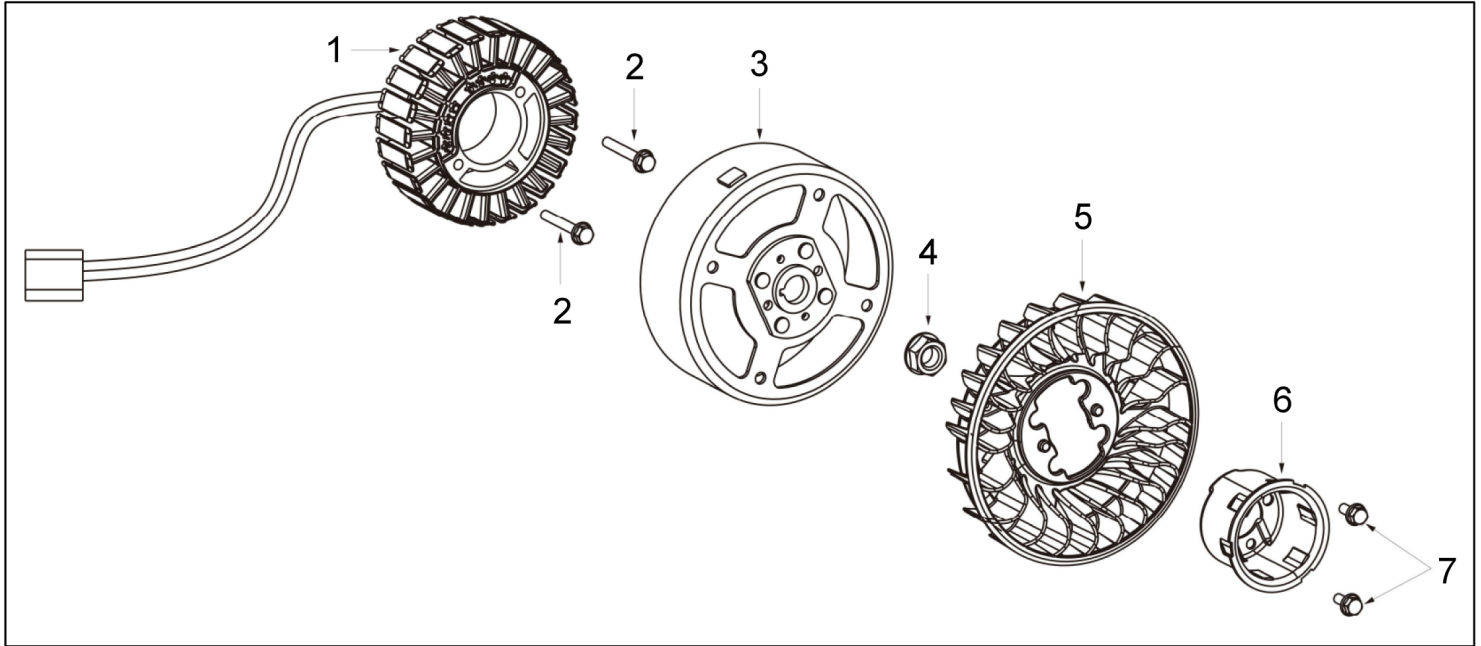


Figure 3 - Rotor and Stator

### 4 - Recoil Starter

| # | Part Number | Description         | Qty |
|---|-------------|---------------------|-----|
| 1 | 102883      | Air Shroud Assembly | 1   |
| 2 | 102820      | Starting handle     | 1   |
| 3 | 102821      | Handle cover plate  | 1   |
| 4 | 102191      | BOLT M6X18          | 7   |
| 5 | 102822      | Pulling plate       | 1   |
| 6 | 102884      | Crimping board      | 1   |

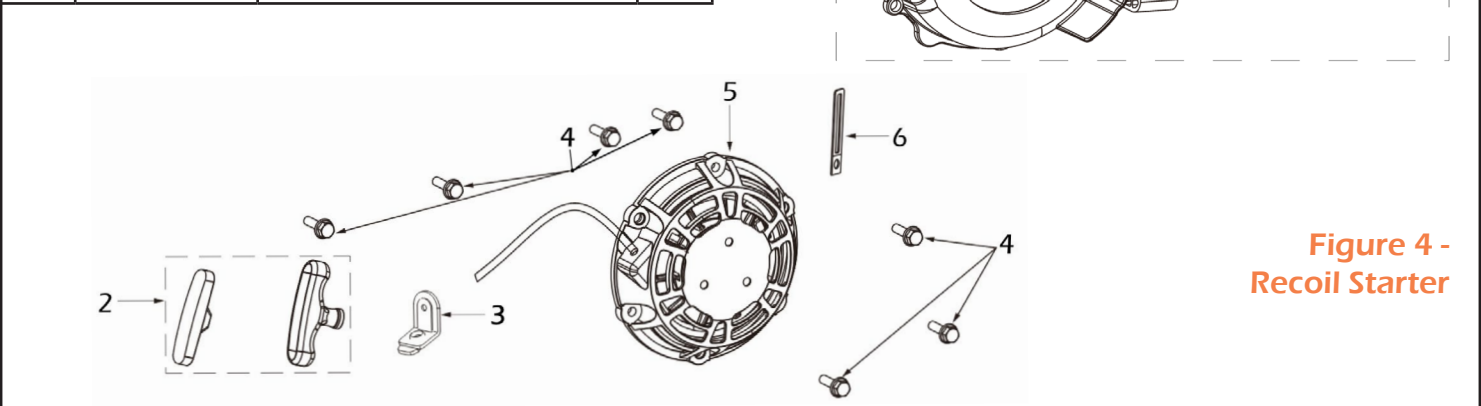


Figure 4 - Recoil Starter

## 5 - Ignition Coil

| # | Part Number | Description           | Qty | # | Part Number | Description      | Qty |
|---|-------------|-----------------------|-----|---|-------------|------------------|-----|
| 1 | 102885      | Bolt                  | 1   | 4 | 102224      | Oil Alarm Sensor | 1   |
| 2 | 102222      | Ignition coil         | 1   | 5 | 102225      | Bolt             | 2   |
| 3 | 102886      | Trigger coil assembly | 1   | 6 | 102170      | Bolt             | 2   |

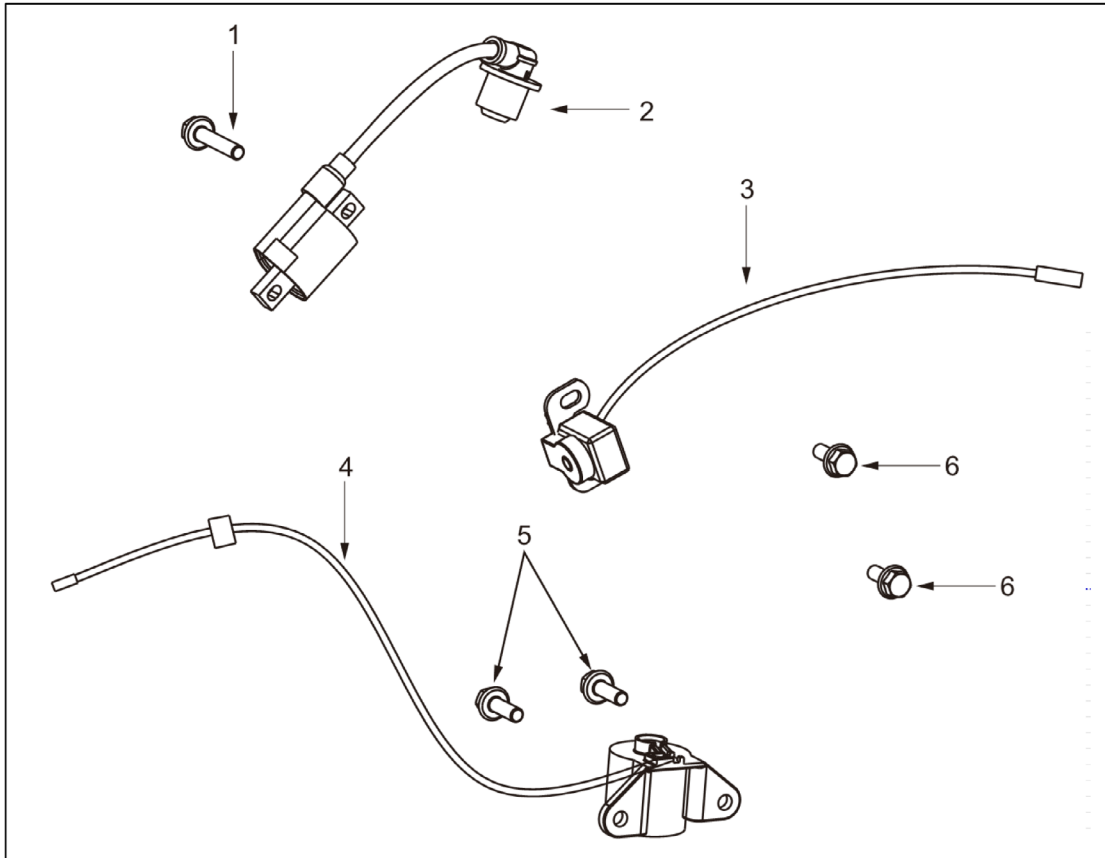


Figure 5 - Ignition Coil

## 6 - Camshaft Parts

| # | Part Number | Description         | Qty | #                       | Part Number | Description                | Qty |
|---|-------------|---------------------|-----|-------------------------|-------------|----------------------------|-----|
| 1 | 102194      | Bolt M6 X 10        | 1   | 9                       | 102208      | Exhaust valve              | 1   |
| 2 | 102826      | Rocker shaft stop   | 1   | 10                      | 102209      | Intake valve               | 1   |
| 3 | 102827      | Rocker pin          | 2   | 11                      | 102210      | Tappet                     | 2   |
| 4 | 102887      | Rocker arm assembly | 2   | 12                      | 102211      | Wear resistant gasket      | 1   |
| 5 | 102198      | Valve spring seat   | 2   | 13                      | 102888      | Camshaft components        | 1   |
| 6 | 102828      | Valve spring        | 2   | 14                      | 102213      | Valve clamp lock           | 4   |
| 7 | 102206      | Oil baffle          | 1   | 15                      | 102830      | Oil baffle (exhaust valve) | 1   |
| 8 | 102207      | PUSH ROD            | 2   | See Figure 6, Next Page |             |                            |     |

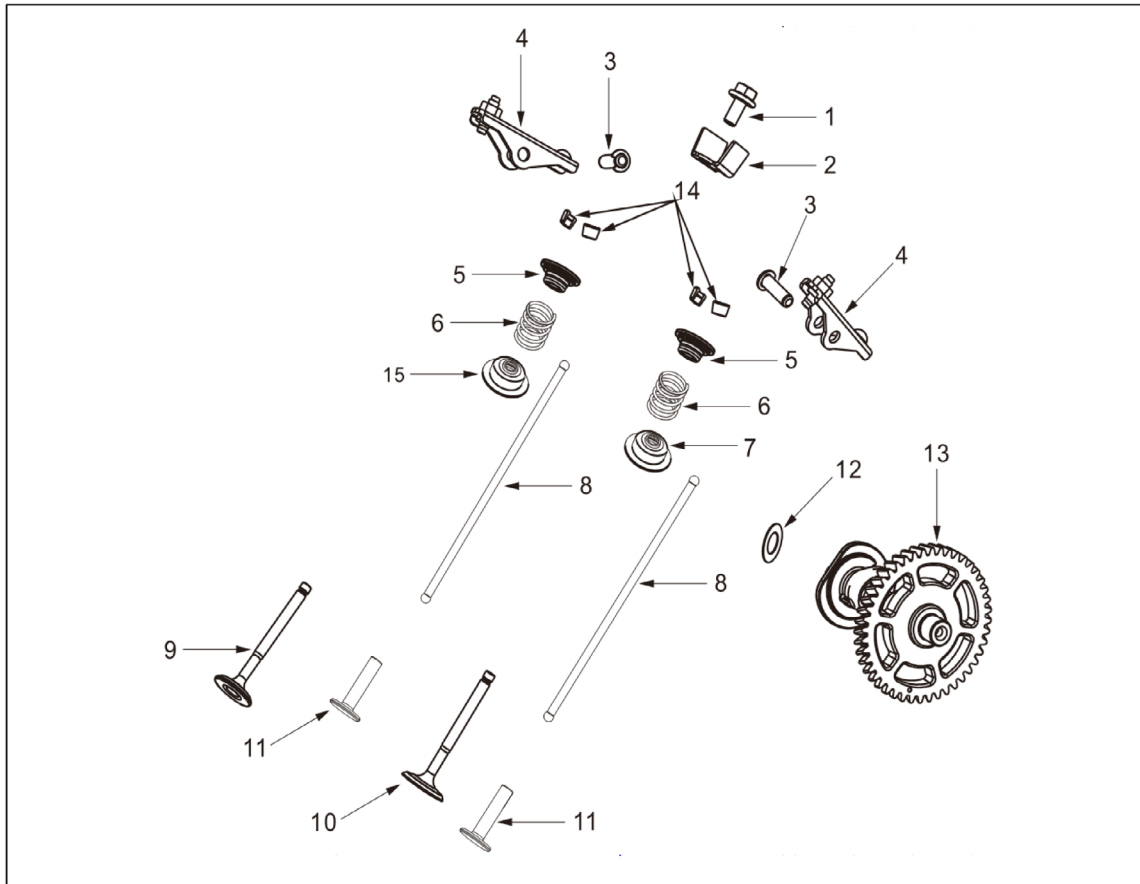


Figure 6 - Camshaft Parts

## 7 - Piston, Crankshaft

| # | Part Number | Description          | Qty | # | Part Number | Description       | Qty |
|---|-------------|----------------------|-----|---|-------------|-------------------|-----|
| 1 | 102892      | PISTON RING Assembly | 1   | 5 | 102894      | Connecting rod    | 1   |
| 2 | 102838      | Piston pin circlip   | 2   | 6 | 102219      | WASHER 36X25.3X.5 | 1   |
| 3 | 102893      | Piston               | 1   | 7 | 102895      | Crankshaft        | 1   |
| 4 | 102217      | Piston pin           | 1   |   |             |                   |     |

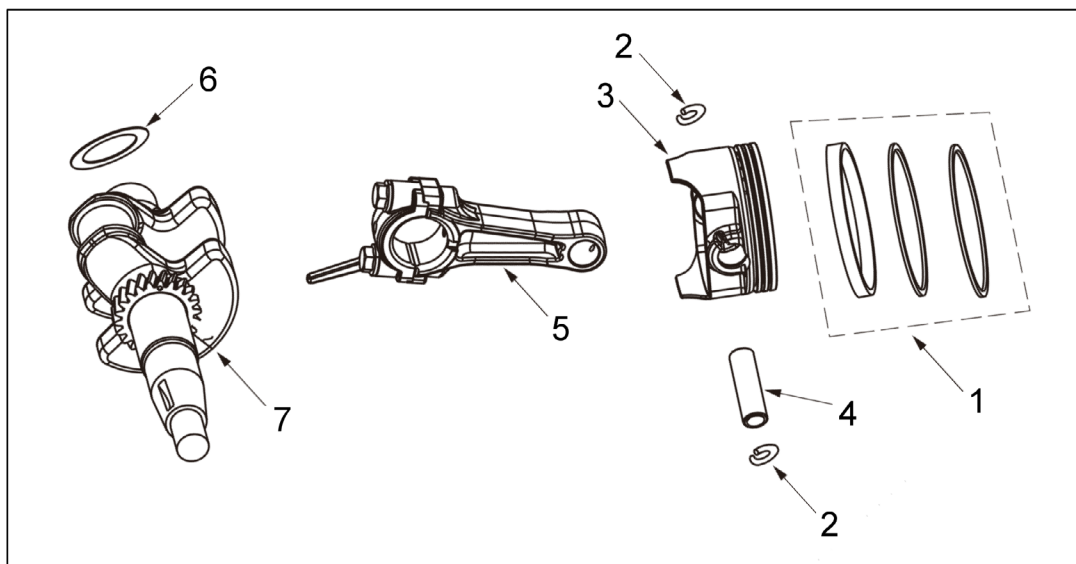


Figure 7 - Piston, Crankshaft

## 8 - Muffler Parts

| # | Part Number | Description           | Qty | # | Part Number | Description          | Qty |
|---|-------------|-----------------------|-----|---|-------------|----------------------|-----|
| 1 | 102896      | Muffler cover (front) | 1   | 5 | 102103      | NUT M6               | 2   |
| 2 | 102191      | BOLT M6X18            | 3   | 6 | 102898      | Muffler cover (rear) | 1   |
| 3 | 102897      | Muffler components    | 1   | 7 | 102230      | SCREW 4.2X16         | 5   |
| 4 | 102228      | BOLT M6X40            | 1   |   |             |                      |     |

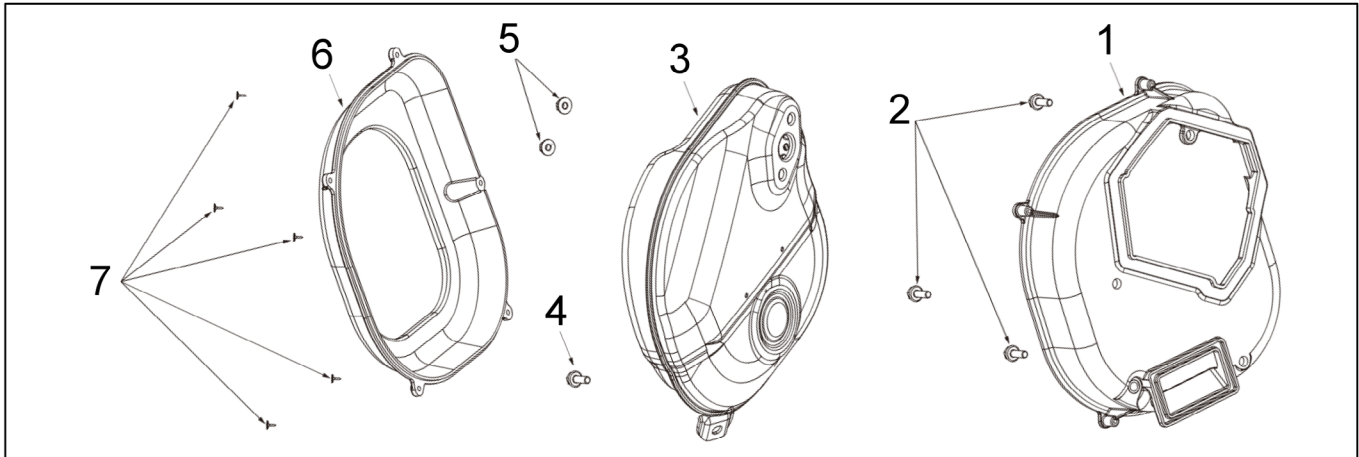


Figure 8 - Muffler Parts

## 9 - Muffler Shield

| # | Part Number | Description    | Qty | # | Part Number | Description            | Qty |
|---|-------------|----------------|-----|---|-------------|------------------------|-----|
| 1 | 102903      | Muffler shield | 1   | 8 | 102904      | Muffler sealant sleeve | 1   |
| 2 | 102117      | SCREW 5X16     | 8   | 9 | 102119      | Plumb ring             | 4   |

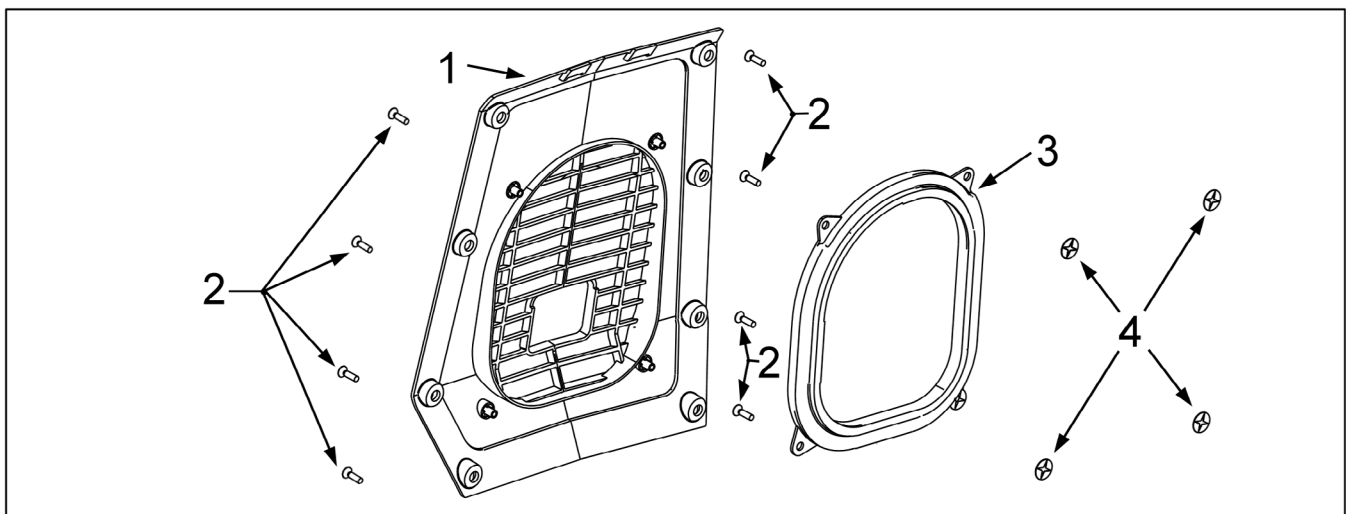


Figure 9 - Muffler Shield

## 10 - Generator Base and Inverter

| #  | Part Number | Description        | Qty | #  | Part Number | Description     | Qty |
|----|-------------|--------------------|-----|----|-------------|-----------------|-----|
| 1  | 102905      | Base plate         | 1   | 12 | 102117      | SCREW 5X16      | 1   |
| 2  | 102906      | Supporting seat    | 2   | 13 | 102103      | NUT M6          | 4   |
| 3  | 102841      | Shock pad          | 4   | 14 | 102909      | Wheel           | 2   |
| 4  | 102240      | BOLT M6X25         | 1   | 15 | 102910      | WHEEL PIN       | 2   |
| 5  | 102127      | Nut                | 4   | 16 | 102180      | PISTON ROD CLIP | 2   |
| 6  | 102147      | Nut                | 6   | 17 | 102911      | Lithium battery | 1   |
| 7  | 102907      | Inverter           | 1   | 18 | 102912      | BATTERY BOX     | 1   |
| 8  | 102908      | Ground wire        | 1   | 19 | 102816      | BOLT M6X35      | 1   |
| 9  | 102150      | INVERTER BRACKET A | 1   | 20 | 102913      | Nut             | 1   |
| 10 | 102151      | INVERTER BRACKET B | 1   | 21 | 102914      | Battery strap   | 1   |
| 11 | 102102      | BOLT M6X12         | 3   |    |             |                 |     |

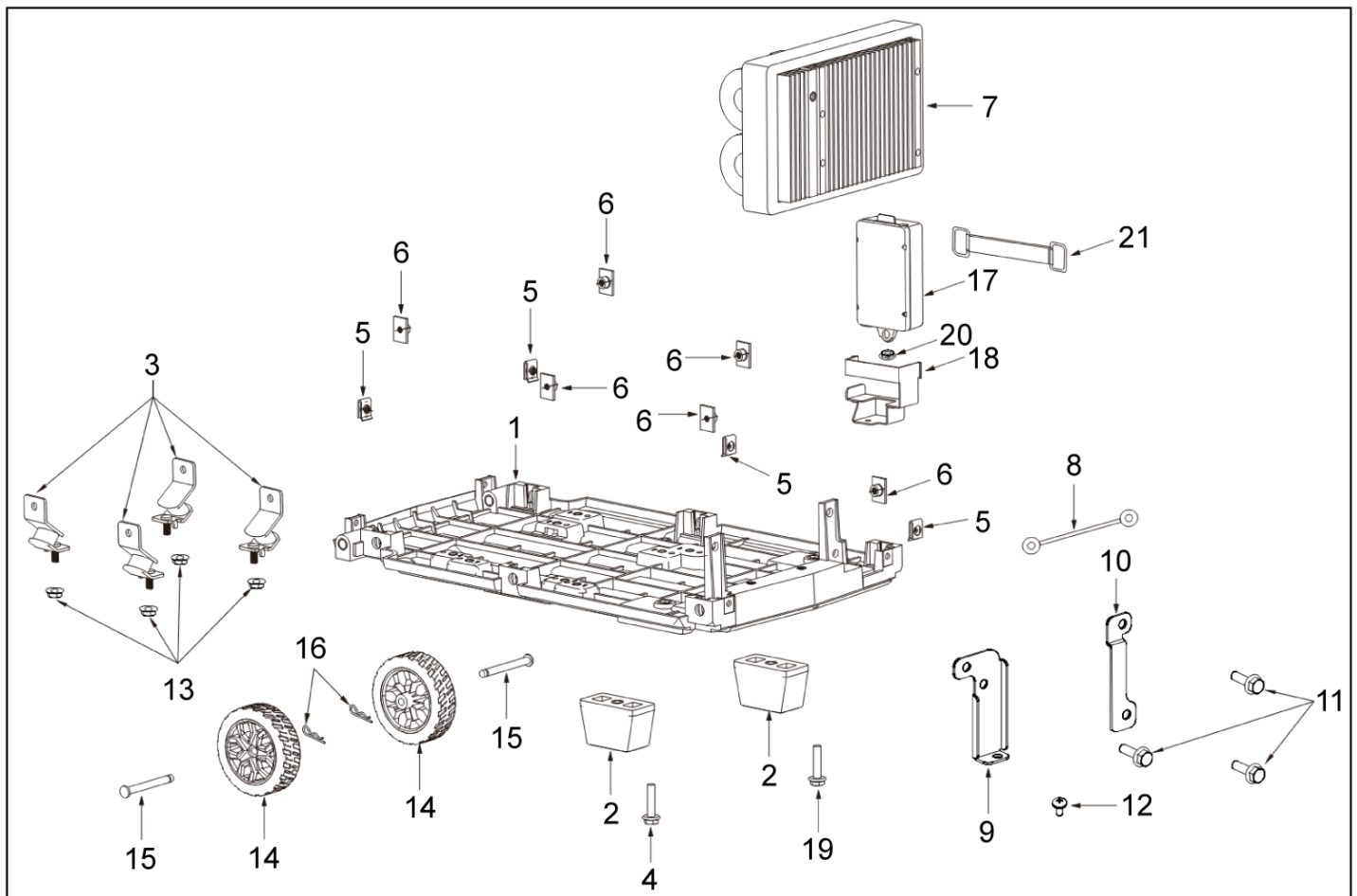
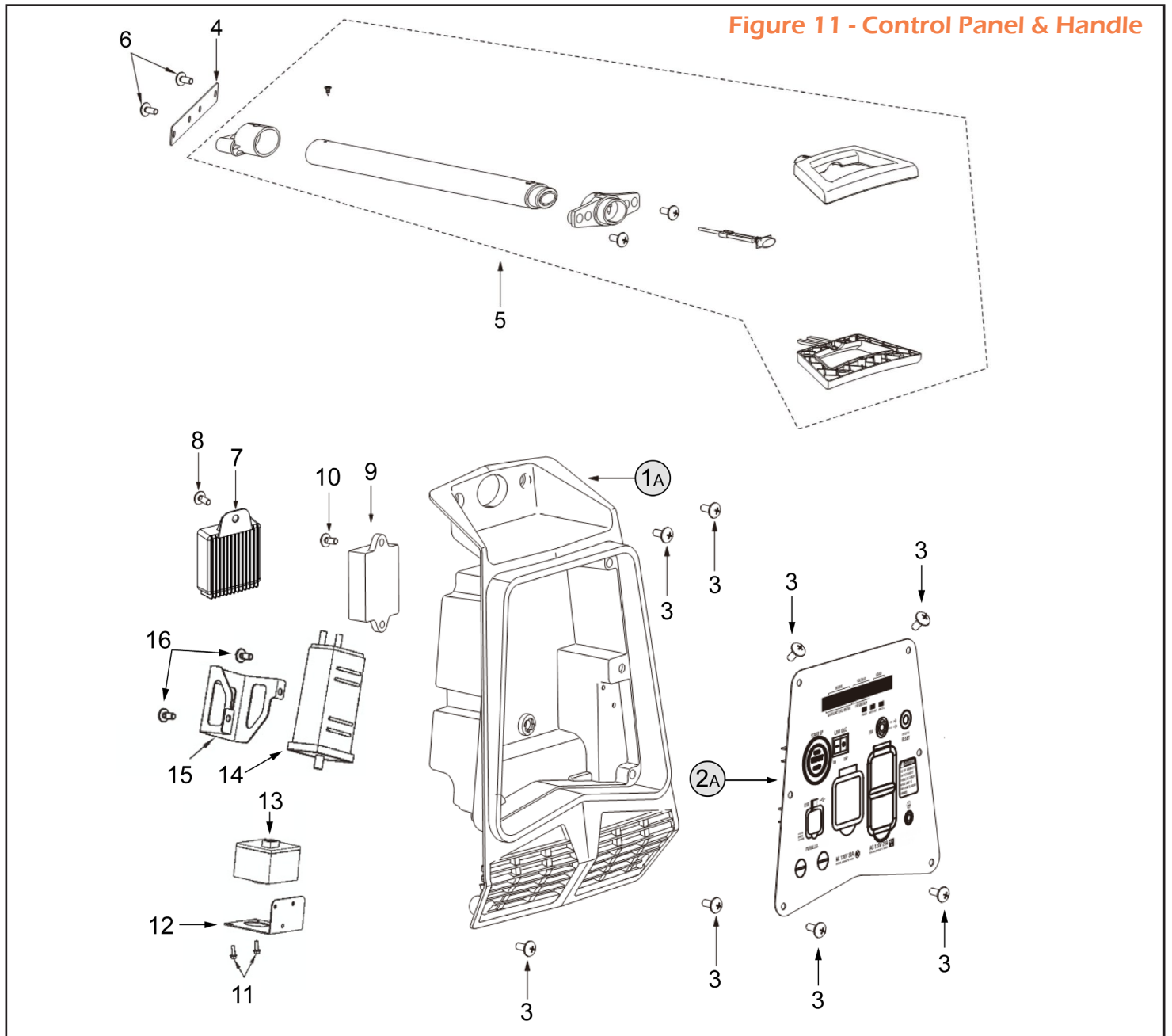


Figure 10 - Generator Base and Inverter

# 11 - Control Panel & Handle

| #  | Part Number | Description                    | Qty | #  | Part Number | Description            | Qty |
|----|-------------|--------------------------------|-----|----|-------------|------------------------|-----|
| 1A | 102937      | Control (Front) Panel Assembly | 1   | 9  | 102918      | One-click start module | 1   |
| 2A |             |                                |     | 10 | 102917      | BOLT M5X14             | 2   |
| 3  | 102117      | SCREW 5X16                     | 8   | 11 | 102856      | BOLT M5X25             | 2   |
| 4  | 102915      | PULL HANDLE MOUNT PLATE        | 1   | 12 | 102919      | CO alarm bracket       | 1   |
| 5  | 102916      | PULL HANDLE ASSEMBLY           | 1   | 13 | 102920      | CO alarm               | 1   |
| 6  | 102120      | SCREW 5X10                     | 2   | 14 | 102921      | Carbon tank            | 1   |
| 7  | 102854      | Voltage regulating rectifier   | 1   | 15 | 102922      | Carbon tank support    | 1   |
| 8  | 102917      | BOLT M5X14                     | 1   | 16 | 102120      | SCREW 5X10             | 2   |

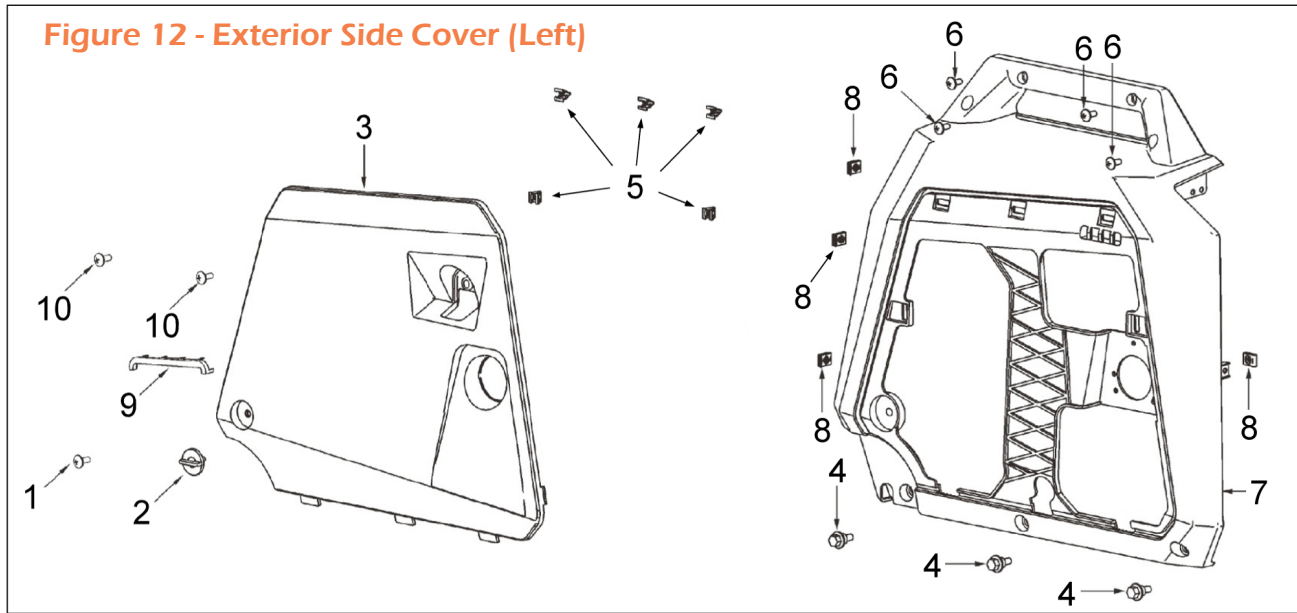




## 12 - Exterior Side Cover (Left)

| # | Part Number | Description | Qty | #  | Part Number | Description | Qty |
|---|-------------|-------------|-----|----|-------------|-------------|-----|
| 1 | 102858      | Screw       | 3   | 6  | 102117      | SCREW 5X16  | 4   |
| 2 | 102923      | Rotary knob | 1   | 7  | 102925      | Left shell  | 1   |
| 3 | 102924      | LEFT PANEL  | 1   | 8  | 102127      | Nut         | 4   |
| 4 | 102862      | Bolt        | 3   | 9  | 102857      | Handle trim | 1   |
| 5 | 102861      | PANEL CLIP  | 5   | 10 | 102858      | Screw       | 3   |

Figure 12 - Exterior Side Cover (Left)



## 13 - Exterior Side Cover (Right)

| # | Part Number | Description            | Qty | # | Part Number | Description            | Qty |
|---|-------------|------------------------|-----|---|-------------|------------------------|-----|
| 1 | 102926      | Right shell            | 1   | 6 | 102133      | Anti loss rubber strip | 1   |
| 2 | 102923      | Rotary knob            | 1   | 7 | 102861      | PANEL CLIP             | 5   |
| 3 | 102127      | Nut                    | 4   | 8 | 102862      | Bolt                   | 3   |
| 4 | 102131      | sheath                 | 1   | 9 | 102928      | RIGHT PANEL            | 1   |
| 5 | 102927      | Spark-plug outer cover | 1   |   |             |                        |     |

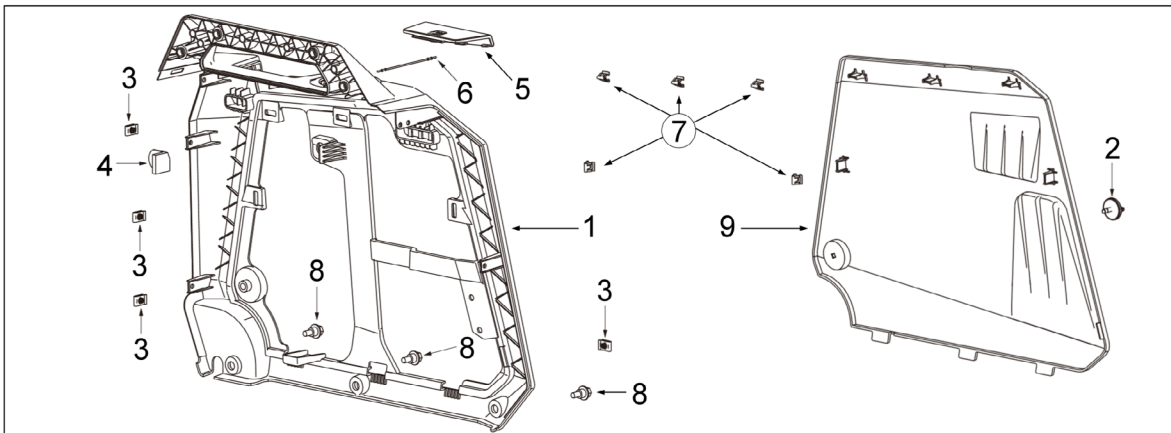


Figure 13 - Exterior Side Cover (Right)

14 - Fuel Tank

| # | Part Number | Description               | Qty | #  | Part Number | Description                | Qty |
|---|-------------|---------------------------|-----|----|-------------|----------------------------|-----|
| 1 | 102929      | Fuel Tank w/ Sediment Cup | 1   | 7  | 102836      | RIBBON TUBING CLAMP M10    | 2   |
| 2 | 102935      | FUEL EVAP COLLECTION PIPE | 1   | 8  | 102932      | Oil tube                   | 1   |
| 3 | 102930      | FUEL NECK SHEATH          | 1   | 9  | 102933      | SHEATH 10X50               | 1   |
| 4 | 102107      | Tank cap                  | 1   | 10 | 102870      | FERRULE 8MM                | 2   |
| 5 | 102108      | Sheath                    | 3   | 11 | 102934      | RUBBER SLEEVE FOR OIL TANK | 1   |
| 6 | 102931      | Oil pump                  | 1   |    |             |                            |     |

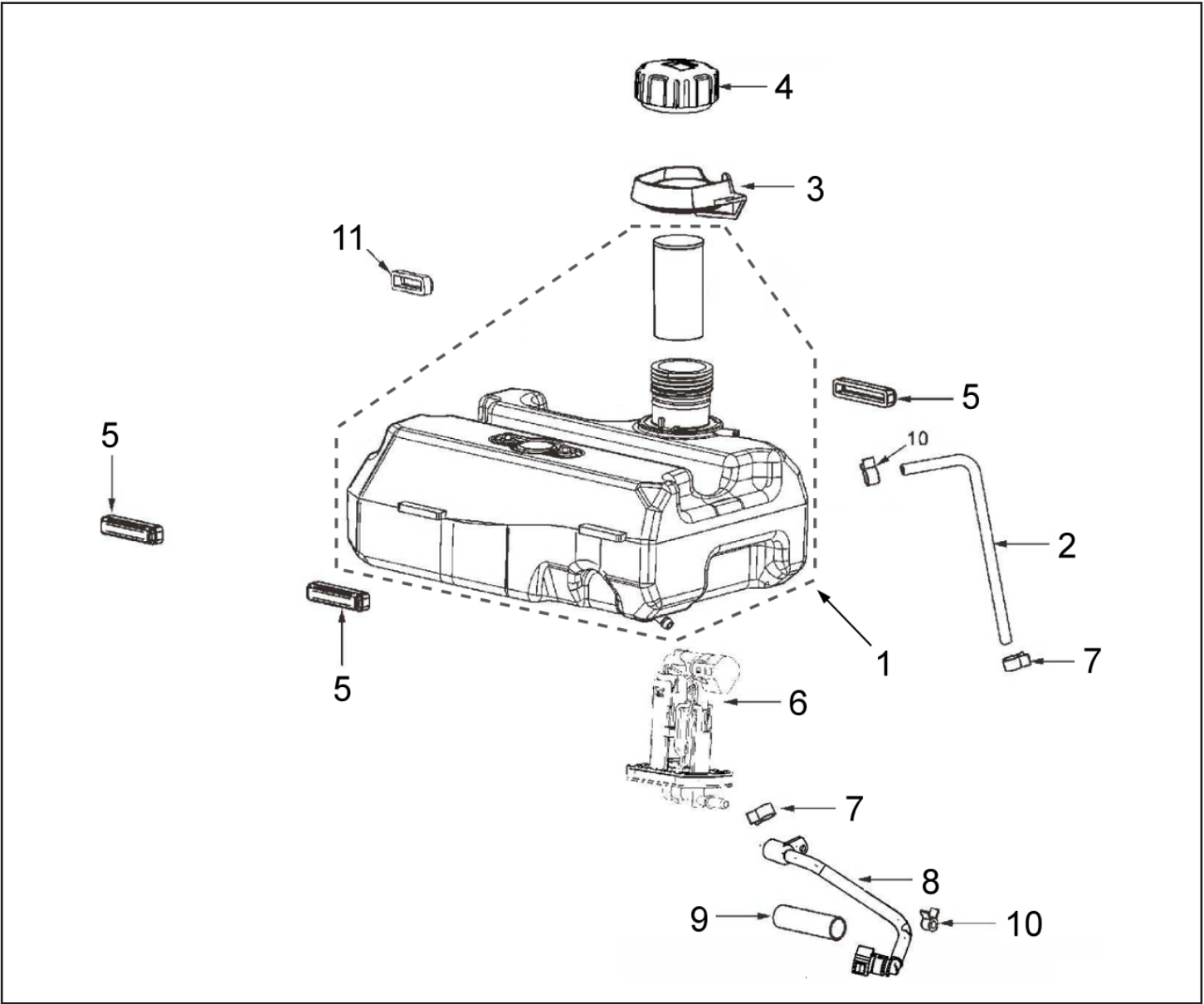


Figure 14 - Fuel Tank

15 - Fuel Injection Parts

| # | Part Number | Description            | Qty | # | Part Number | Description          | Qty |
|---|-------------|------------------------|-----|---|-------------|----------------------|-----|
| 1 | 102241      | Cross head mount screw | 2   | 6 | 102890      | THROTTLE BODY GASKET | 1   |
| 2 | 102938      | Wiring harness         | 1   | 7 | 102891      | THROTTLE BODY        | 1   |
| 3 | 102243      | VENT PIPE              | 1   | 8 | 102835      | Intake elbow         | 1   |
| 4 | 102832      | Air inlet gasket       | 1   | 9 | 102103      | NUT M6               | 2   |
| 5 | 102889      | THROTTLE BODY BLOCK    | 1   |   |             |                      |     |

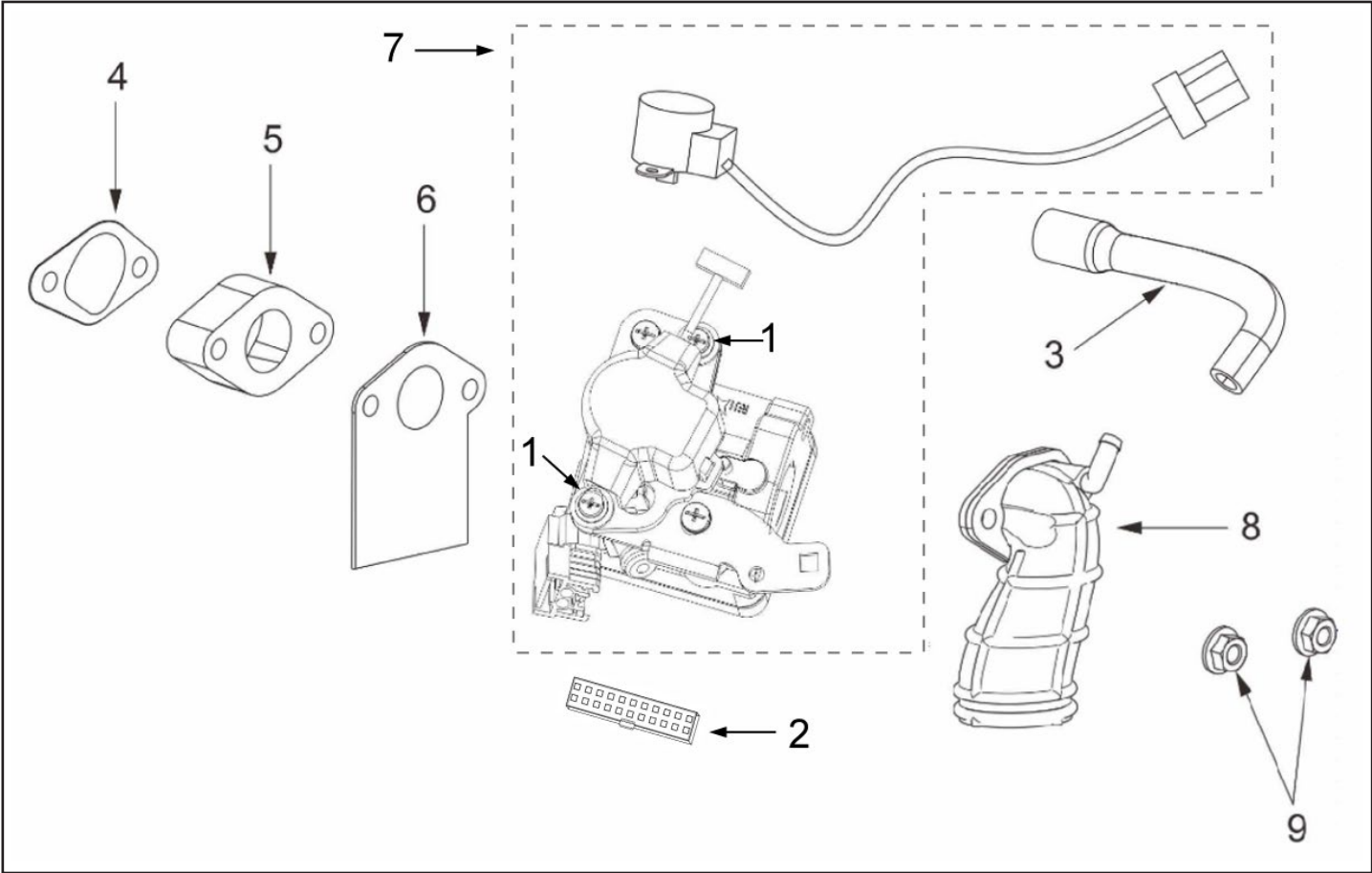
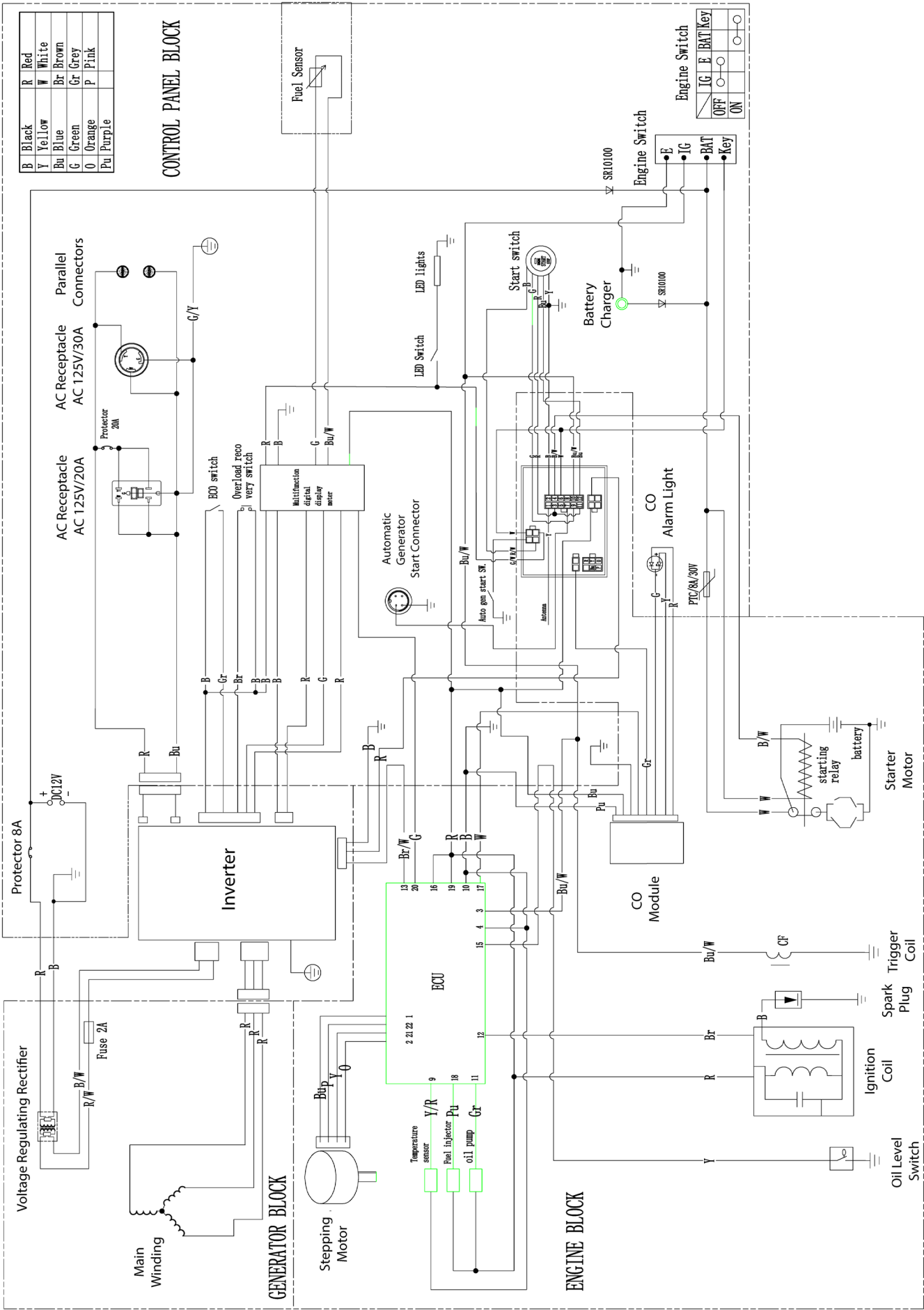


Figure 15 - Fuel Injection Parts

Electrical Diagram: BNG3800iAEFIC



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## BNG3800iAEFIC Inverter Generator Specifications

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| Power (Max)               | 4600 Watts                                                          |
| Power (Rated)             | 3800 Watts                                                          |
| Engine Displacement       | 159 cc                                                              |
| Rated Speed               | 4850 RPM                                                            |
| Cooling                   | Air-Cooled                                                          |
| Voltage & Frequency       | 120V 60Hz single-phase                                              |
| Outlets & Receptacles     | (1) 120V GFCI (20A) NEMA 5-20R                                      |
|                           | (1) 120V (30A)                                                      |
|                           | (1) DC 12V                                                          |
| Parallel Connection       | Yes                                                                 |
| Auto Start/Stop Interface | Two-Wire start-stop integration supported; interface cable included |
| Portability Features      | Wheel Kit                                                           |
|                           | Telescoping/Retractable Handle                                      |
| Runtime                   | 9 Hours (25% Load)                                                  |
| Fuel Requirements         | 87 or greater octane; LESS THAN 10% ethanol                         |
| Fuel Capacity             | 1.5 Gallons (5.8 L)                                                 |
| Engine Oil Weight/Type    | SAE 10W/30                                                          |
| Oil Capacity              | 0.12 G (0.45 L)                                                     |
| Dimensions                | [LxWxH] 21.2" x 12.2" x 19.9"                                       |
| Unit Weight               | 58.5 lbs. (27 kg)                                                   |
| EPA/CARB Certified        | Yes                                                                 |
| Safety                    | CO Shutoff / Electronic Device-safe                                 |
| Fire Protection           | Spark Arrestor Included                                             |
| Sound Level               | 62.0 dBA @ 23' (7m)                                                 |
| Starter Type              | Electric / Remote / Recoil                                          |



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