

# Kawasaki

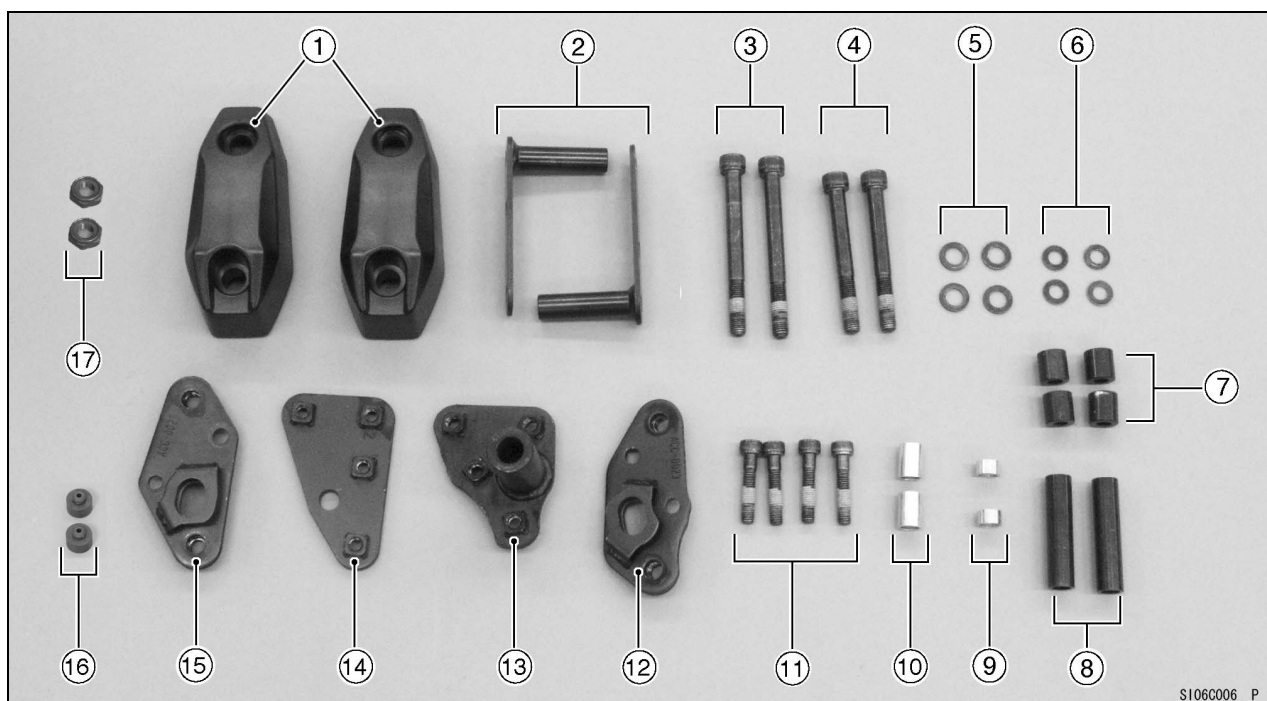
## Assembly Instructions

|              |                                                              |
|--------------|--------------------------------------------------------------|
| Model:       | EX-6f/Ninja 650 (EX650E)<br>EX-6f ABS/Ninja 650 ABS (EX650F) |
| Description: | Engine Guard                                                 |
| Part Number: | 99994-0234                                                   |

**Before you begin installation, read through the installation instructions and check to be sure all parts are present.**

**If you are in doubt as to any part of the installation, please ask your authorized Kawasaki dealer to complete the installation. Please note that Kawasaki cannot assume any responsibility for damage resulting from incorrect installation.**

| Parts List |                                         |            |     |             |
|------------|-----------------------------------------|------------|-----|-------------|
| No.        | Component Name                          | Part No.   | Qty | Remark      |
| 1          | Engine Guard                            | 39156-0758 | 2   |             |
| 2          | Stay                                    | 55020-0763 | 2   |             |
| 3          | Bolt with a Non-permanent Locking Agent | 92154-1027 | 2   | M10 × 100   |
| 4          | Bolt with a Non-permanent Locking Agent | 92154-1028 | 2   | M10 × 80    |
| 5          | Washer                                  | 410AB1000  | 4   |             |
| 6          | Washer                                  | 410AB0800  | 4   |             |
| 7          | Collar                                  | 92152-1636 | 4   | L = 18 mm   |
| 8          | Collar                                  | 92152-1547 | 2   | L = 57.2 mm |
| 9          | Collar                                  | 92152-1661 | 2   | L = 7.8 mm  |
| 10         | Collar                                  | 92152-1662 | 2   | L = 19.8 mm |
| 11         | Bolt with a Non-permanent Locking Agent | 92154-1001 | 4   | M8 × 40     |
| 12         | Right Engine Guard Bracket              | 11056-1399 | 1   |             |
| 13         | Right Engine Bracket                    | 32190-0611 | 1   |             |
| 14         | Left Engine Bracket                     | 32190-0589 | 1   |             |
| 15         | Left Engine Guard Bracket               | 11056-1398 | 1   |             |
| 16         | Damper                                  | 92075-1876 | 2   |             |
| 17         | Nut                                     | 92015-1188 | 2   |             |



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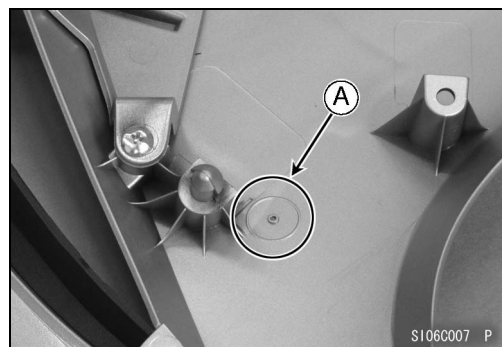
## Installation Instructions

### Assembly Procedure

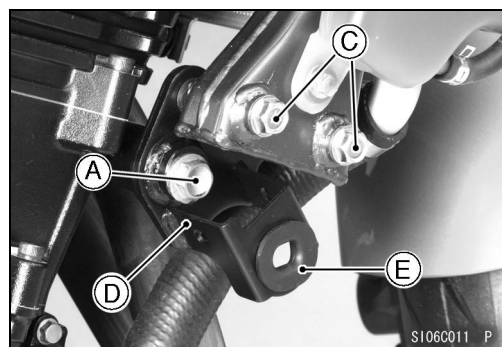
- Remove the middle fairing [A] (refer to the Service Manual).



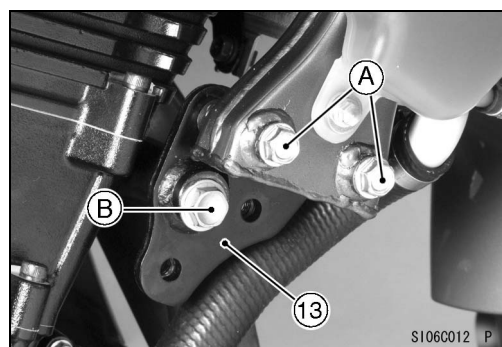
- Drill the middle fairing along a circle [A].  
Diameter: about  $\phi 17$  mm
- When installing the engine guard assy, if the clearance between the hole and collar is too narrow, widen the hole.



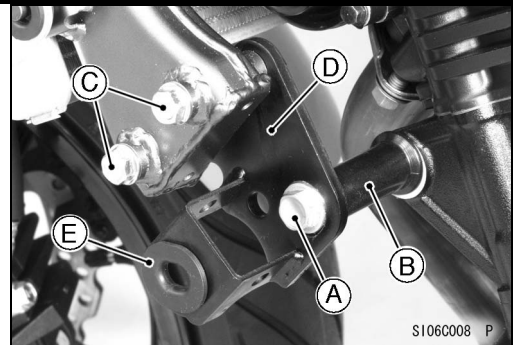
- Remove:  
Right Engine Mounting Bolt [A] and Nut  
Right Engine Bracket Bolts [C]  
Right Engine Bracket [D]  
Grommet [E]



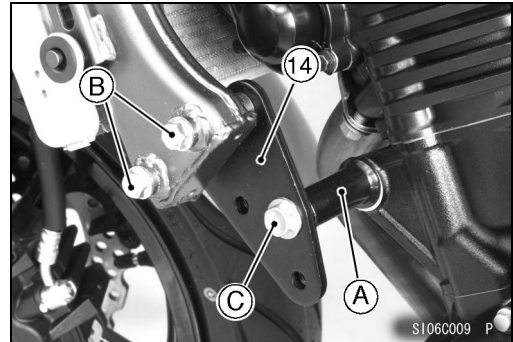
- Replace the engine mounting nut with a new one.
- Install (Temporarily):  
Right Engine Bracket [13]  
Right Engine Bracket Bolts [A]  
Right Engine Mounting Bolt [B] and Nut [17]



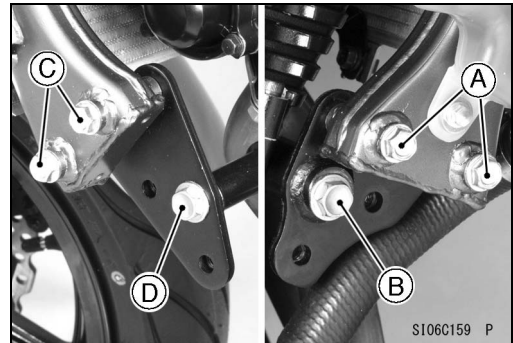
- Remove:  
Left Engine Mounting Bolt [A] and Nut  
Collar [B]  
Left Engine Bracket Bolts [C]  
Left Engine Bracket [D]  
Grommet [E]



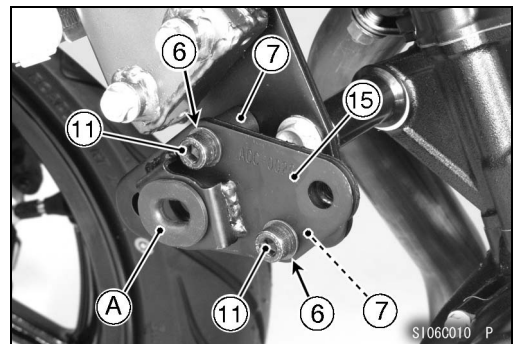
- Replace the engine mounting nut with a new one.
- Install (Temporarily):  
Left Engine Bracket [14]  
Collar [A]  
Left Engine Bracket Bolts [B]  
Left Engine Mounting Bolt [C] and Nut [17]



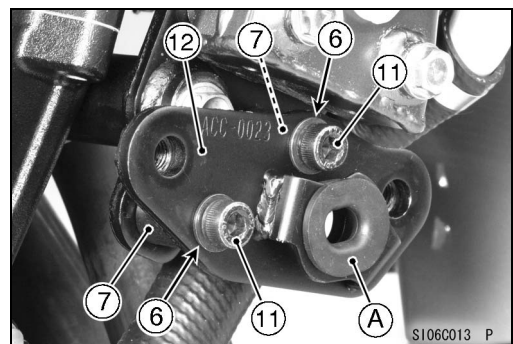
- Tighten the bolts in alphabetical order (A to D) as shown in the figure.
- Tighten the right side bolts and nut.  
**Torque - Right Engine Bracket Bolts [A]: 30 N·m (3.1 kgf·m, 22 ft·lb)**  
**Right Engine Mounting Bolt [B]: 49 N·m (5.0 kgf·m, 36 ft·lb)**
- Tighten the left side bolts and nut.  
**Torque - Left Engine Bracket Bolts [C]: 25 N·m (2.5 kgf·m, 18 ft·lb)**  
**Left Engine Mounting Bolt [D]: 44 N·m (4.5 kgf·m, 32 ft·lb)**



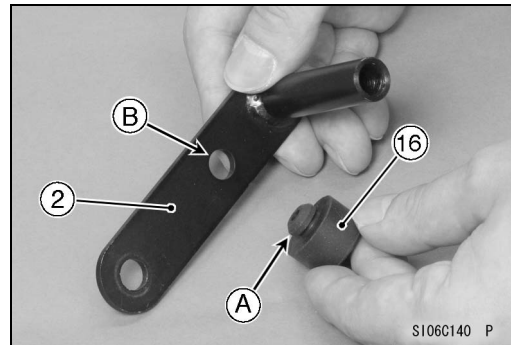
- Install:  
Left Engine Guard Bracket [15]  
Collars [7]  
Washers [6]  
Engine Guard Bracket Bolts [11]  
Grommet [A]  
**Torque - Engine Guard Bracket Bolts: 28 N·m (2.9 kgf·m, 21 ft·lb)**



- Install:  
Right Engine Guard Bracket [12]  
Collars [7]  
Washers [6]  
Engine Guard Bracket Bolts [11]  
Grommet [A]  
**Torque - Engine Guard Bracket Bolts: 28 N·m (2.9 kgf·m, 21 ft·lb)**



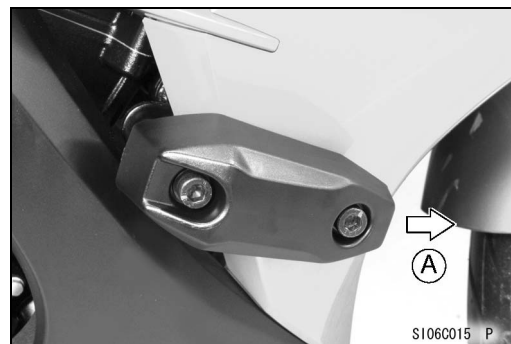
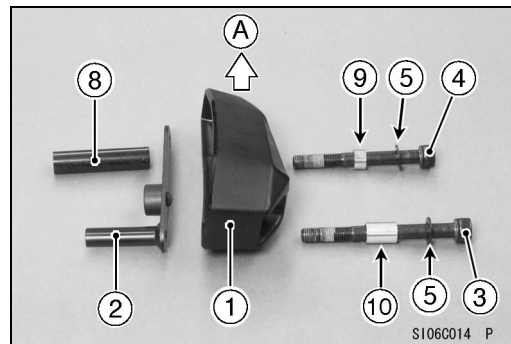
- Install the middle fairing (refer to the Service Manual).
- Insert the projection [A] of the damper [16] into the hole [B] on the stay [2].



- Set the following parts to install the engine guard as shown in the figure, and install the engine guard assy on both side.

Engine Guard [1]  
 Stay [2] with Damper  
 Engine Guard Bolt [3]  
 Engine Guard Bolt [4]  
 Washers [5]  
 Collar [8]  
 Collar [9]  
 Collar [10]  
 Front Side [A]

**Torque - Engine Guard Bolt: 33 N·m (3.4 kgf·m, 24 ft·lb)**



### Basic Torque for General Fasteners

The table below, relating tightening torque to thread diameter, lists the basic torque for the bolts and nuts. Use this table for only the bolts and nuts which do not require a specific torque value. All of the values are for use with dry solvent-cleaned threads.

| Threads dia. (mm) | Torque    |             |               |
|-------------------|-----------|-------------|---------------|
|                   | N·m       | kgf·m       | ft·lb         |
| 5                 | 3.4 ~ 4.9 | 0.35 ~ 0.50 | 30 ~ 43 in·lb |
| 6                 | 5.9 ~ 7.8 | 0.60 ~ 0.80 | 52 ~ 69 in·lb |
| 8                 | 14 ~ 19   | 1.4 ~ 1.9   | 10 ~ 13.5     |
| 10                | 25 ~ 34   | 2.6 ~ 3.5   | 19 ~ 25       |
| 12                | 44 ~ 61   | 4.5 ~ 6.2   | 33 ~ 45       |
| 14                | 73 ~ 98   | 7.4 ~ 10.0  | 54 ~ 72       |
| 16                | 115 ~ 155 | 11.5 ~ 16.0 | 83 ~ 115      |
| 18                | 165 ~ 225 | 17.0 ~ 23.0 | 125 ~ 165     |
| 20                | 225 ~ 325 | 23.0 ~ 33.0 | 165 ~ 240     |

**Please check / adjust all screws in regular intervals.**