

## How to use this manual

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# A Few Words About Safety

## SERVICE INFORMATION

The service and repair information contained in this manual is intended for use by qualified, professional technicians. Attempting service or repairs without the proper training, tools, and equipment could cause injury to you and/or others. It could also damage this Honda product or create an unsafe condition.

This manual describes the proper methods and procedures for performing service, maintenance, and repairs. Some procedures require the use of a special tools. Any person who intends to use a replacement part, service procedure, or a tool that is not recommended by Honda must determine the risks to their personal safety and the safe operation of this product.

If you need to replace a part, use Honda Genuine parts with the correct part number or an equivalent part. We strongly recommend that you do not use replacement parts of inferior quality.

## For Your Customer's Safety

Proper service and maintenance are essential to the customer's safety and the reliability of this product. Any error or oversight while servicing this product can result in faulty operation, damage to the product, or injury to others.

### **⚠ WARNING**

Improper service or repairs can create an unsafe condition that can cause your customer or others to be seriously hurt or killed.

Follow the procedures and precautions in this manual and other service materials carefully.

## For Your Safety

Because this manual is intended for the professional service technician, we do not provide warnings about many basic shop safety practices (e.g., Hot parts-wear gloves). If you have not received shop safety training or do not feel confident about your knowledge of safe servicing practices, we recommend that you do not attempt to perform the procedures described in this manual.

Some of the most important general service safety precautions are given below. However, we cannot warn you of every conceivable hazard that can arise in performing service and repair procedures. Only you can decide whether or not you should perform a given task.

### **⚠ WARNING**

Failure to properly follow instructions and precautions can cause you to be seriously hurt or killed.

Follow the procedures and precautions in this manual carefully.

## Important Safety Precautions

Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and using safety equipment. When performing any service task, be especially careful of the following:

- Read all of the instructions before you begin, and make sure you have the tools, the replacement or repair parts, and the skills required to perform the tasks safely and completely.
- Protect your eyes by using proper safety glasses, goggles, or face shields anytime you hammer, drill, grind, or work around pressurized air, pressurized liquids, springs, or other stored-energy components. If there is any doubt, put on eye protection.
- Use other protective wear when necessary, for example gloves or safety shoes. Handling hot or sharp parts can cause severe burns or cuts. Before you grab something that looks like it can hurt you, stop and put on gloves.
- Protect yourself and others whenever you have equipment hoisted in the air. Anytime you lift this product with a hoist, make sure that the hoist hook is securely attached to the product.

Make sure the engine is off before you begin any servicing procedures, unless the instruction tells you to do otherwise. This will help eliminate several potential hazards:

- Carbon monoxide poisoning from engine exhaust. Be sure there is adequate ventilation whenever you run the engine.
- Burns from hot parts. Let the engine and exhaust system cool before working in those areas.
- Injury from moving parts. If the instruction tells you to run the engine, be sure your hands, fingers, and clothing are out of the way.

Gasoline vapors and hydrogen gasses from batteries are explosive. To reduce the possibility of a fire or explosion, be careful when working around gasoline or batteries.

- Use only a nonflammable solvent, not gasoline, to clean parts.
  - Never store gasoline in an open container.
  - Keep all cigarettes, sparks, and flames away from the battery and all fuel-related parts.
-

## INTRODUCTION

This supplement covers the construction, function, and servicing procedures of the Honda HF2317/HF2417K5/HF2625 lawn tractors.

For service information that is not covered in this supplement, please refer to the HF2315K2/HF2417K3/HF2622 base shop manual (part number 62VK100) and supplement (part number 62VK100Z).

All information contained in this manual is based on the latest product information available at the time of printing. We reserve the right to make changes at anytime without notice.

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As you read this manual, you will find information that is preceded by a **NOTICE** symbol. The purpose of this message is to help prevent damage to this Honda product, other property, or the environment.

## SAFETY MESSAGES

Your safety and the safety of others are very important. To help you make informed decisions, we have provided safety messages and other safety information throughout this manual. Of course, it is not practical or possible to warn you about all the hazards associated with servicing these products. You must use your own good judgement.

You will find important safety information in a variety of forms, including:

- Safety Labels – on the product.
- Safety Messages – preceded by a safety alert symbol  and one of three signal words, DANGER, WARNING, or CAUTION.

These signal words mean:



You **WILL** be KILLED or SERIOUSLY HURT if you don't follow instructions.



You **CAN** be KILLED or SERIOUSLY HURT if you don't follow instructions.



You **CAN** be HURT if you don't follow instructions.

- Instructions – how to service these products correctly and safely.

## OUTLINE OF CHANGES

### SPECIFICATIONS

1

### SERVICE INFORMATION

2

### MAINTENANCE

3

### TROUBLESHOOTING

4

### COVER

5

### FUEL SYSTEM

6

### GOVERNOR SYSTEM

7

### CHARGING SYSTEM

8

### IGNITION SYSTEM

9

### STARTING SYSTEM

10

### OTHER ELECTRICAL

11

### LUBRICATION SYSTEM (GXV660H ONLY)

12

### MUFFLER

13

### ENGINE REMOVAL/INSTALLATION

14

### CYLINDER/CRANKCASE (GCV520/530)

15

### CYLINDER/CRANKCASE (GXV660H)

16

### MOWER SYSTEM

17

### BRAKE SYSTEM

18

### STEERING SYSTEM

19

### TRANSMISSION SYSTEM

20

### WIRING DIAGRAMS

21

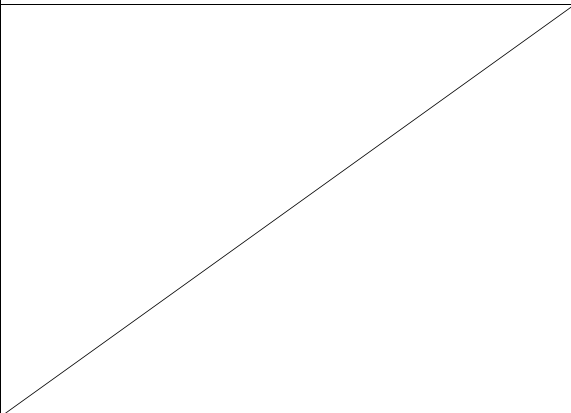
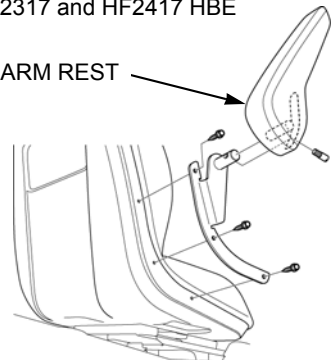
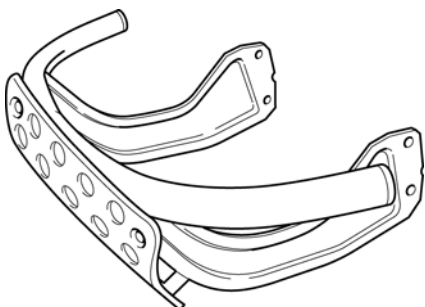
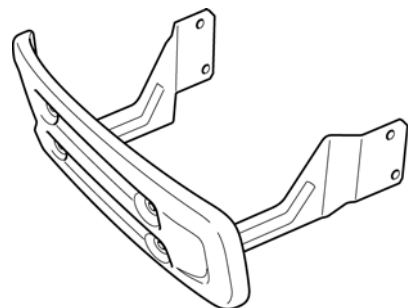
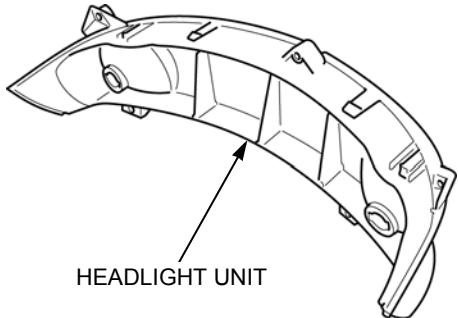
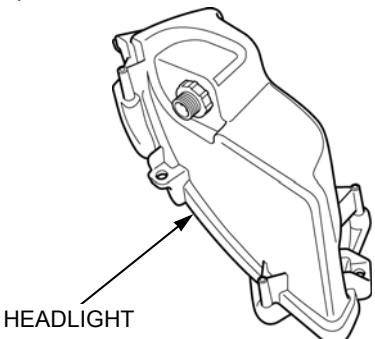
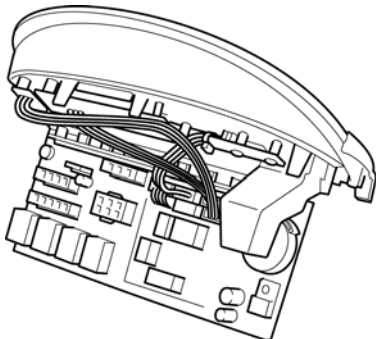
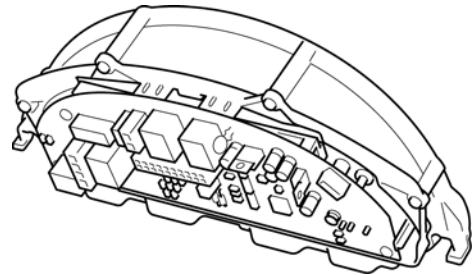
### INDEX

The marked sections contain no changes.  
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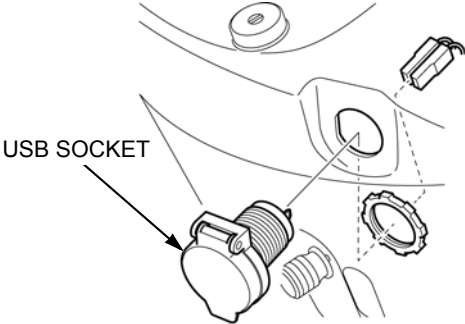
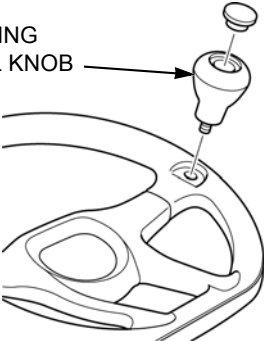
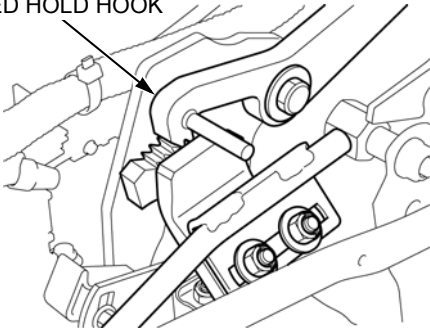
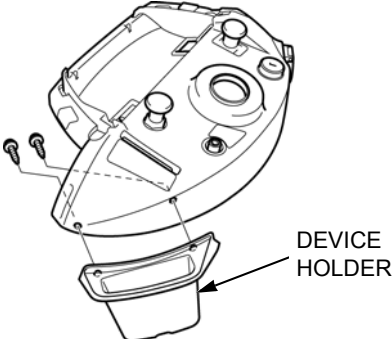
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## MEMO

# OUTLINE OF CHANGES

| ITEM          | MODEL                                                                             |                                                                                                                                                                                                                                                      |
|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | HF2315K3/HF2417K4/HF2622K1                                                        | HF2317/HF2417K5/HF2625                                                                                                                                                                                                                               |
| Arm rest      |  | <p>Except HF2317 and HF2417 HBE</p>  <p>ARM REST</p>                                                                                                              |
| Bumper        |                                                                                   | <p>Except HF2625 HTEH</p>                                                      |
| Headlight     |                                                                                   | <p>Except HF2317 and HF2417 HBE</p>  <p>HEADLIGHT UNIT</p>  <p>HEADLIGHT</p> |
| Control panel |                                                                                   | <p>HF2417 HTE shown</p>                                                      |

How to use this manual

| ITEM                | MODEL                      |                                                                                                                                          |
|---------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                     | HF2315K3/HF2417K4/HF2622K1 | HF2317/HF2417K5/HF2625                                                                                                                   |
| USB socket          |                            | <div>Except HF2317 and HF2417 HBE</div> <div></div>    |
| Steering wheel knob |                            | <div>HF2625 only</div> <div></div>                   |
| Speed hold hook     |                            | <div>Except HF2317 and HF2417 HBE</div> <div></div>  |
| Device holder       |                            | <div>Except HF2317 and HF2417 HBE</div> <div></div> |

SPECIFICATIONS .....1-2      DIMENSIONAL DRAWINGS ..... 1-4

## SPECIFICATIONS

## SPECIFICATIONS

### DIMENSIONS AND WEIGHTS

|                                                   |       |                    |                    |                  |                  |                    |                  |
|---------------------------------------------------|-------|--------------------|--------------------|------------------|------------------|--------------------|------------------|
| Model                                             |       | HF2317             | HF2417K5           |                  |                  | HF2625             |                  |
| Description code                                  |       | MBVF               | MAPF               |                  |                  | MBWF               |                  |
| Type                                              |       | HME                | HBE                | HME              | HTE              | HMEH               | HTEH             |
| Overall length (with rear bar of grass bag)       |       | 2,460 mm (96.9 in) |                    |                  |                  |                    |                  |
| Overall width                                     |       | 960 mm (37.8 in)   | 1,060 mm (41.7 in) |                  |                  | 1,250 mm (49.2 in) |                  |
| Overall height (with seat at fully rear position) |       | 1,290 mm (50.8 in) |                    |                  |                  |                    |                  |
| Wheel base                                        |       | 1,150 mm (45.3 in) |                    |                  |                  |                    |                  |
| Tread width                                       | Front | 700 mm (27.6 in)   | 730 mm (28.7 in)   |                  |                  |                    |                  |
|                                                   | Rear  | 760 mm (30.0 in)   |                    |                  |                  |                    |                  |
| Dry weight                                        |       | 220 kg (485 lbs)   | 242 kg (534 lbs)   | 244 kg (538 lbs) | 255 kg (562 lbs) | 265 kg (584 lbs)   | 274 kg (604 lbs) |
| Operating weight                                  |       | 225 kg (496 lbs)   | 247 kg (545 lbs)   | 251 kg (553 lbs) | 262 kg (578 lbs) | 273 kg (602 lbs)   | 282 kg (622 lbs) |

### ENGINE

| Model                          |                      | HF2317                                                           | HF2417K5 |     |                                        | HF2625 |                                                                  |
|--------------------------------|----------------------|------------------------------------------------------------------|----------|-----|----------------------------------------|--------|------------------------------------------------------------------|
| Type                           |                      | HME                                                              | HBE      | HME | HTE                                    | HMEH   | HTEH                                                             |
| Engine model                   |                      | GCV530                                                           |          |     |                                        |        | GXV690H                                                          |
| Engine description code        |                      | GJAJM                                                            |          |     |                                        |        | GJARH                                                            |
| Engine type                    |                      | 4 stroke, overhead camshaft, 90° V-twin                          |          |     |                                        |        | 4 stroke, overhead valve, 90° V-twin                             |
| Displacement                   |                      | 530 cm <sup>3</sup> (32.3 cu-in)                                 |          |     |                                        |        | 688 cm <sup>3</sup> (42.0 cu-in)                                 |
| Bore x stroke                  |                      | 77.0 x 57.0 mm (3.03 x 2.24 in)                                  |          |     |                                        |        | 78.0 x 72.0 mm (3.07 x 2.83 in)                                  |
| Net power (SAE J1349)          |                      | 11.3 kW (15.4 PS)/3,600 min <sup>-1</sup> (rpm)                  |          |     |                                        |        | 16.5 kW (22.4 PS)/3,600 min <sup>-1</sup> (rpm)                  |
| Nominal power                  |                      | 9.7 kW (13.2 PS)/2,800 min <sup>-1</sup> (rpm)                   |          |     |                                        |        | 13.9 kW (18.9 PS)/2,800 min <sup>-1</sup> (rpm)                  |
| Maximum net torque (SAE J1349) |                      | 33.1 N·m (3.38 kgf·m, 24.4 lbf·ft)/2,500 min <sup>-1</sup> (rpm) |          |     |                                        |        | 48.3 N·m (4.93 kgf·m, 35.6 lbf·ft)/2,500 min <sup>-1</sup> (rpm) |
| Compression ratio              |                      | 7.9:1                                                            |          |     |                                        |        | 9.3:1                                                            |
| Ignition system                |                      | Transistorized magneto ignition                                  |          |     |                                        |        | C.D.I.(Capacitor Discharge Ignition) type magneto                |
| Ignition timing (at no load)   |                      | B.T.D.C. 20°                                                     |          |     |                                        |        | B.T.D.C. 4°/1,000 min <sup>-1</sup> (rpm)                        |
| Spark plug                     |                      | BPR5ES (NGK)/W16EPR-U (DENSO)                                    |          |     |                                        |        | ZFR5F (NGK)                                                      |
| Lubrication system             |                      | Forced splash                                                    |          |     |                                        |        | Forced feed                                                      |
| Oil capacity                   | At draining          | 1.1 Liter (1.2 US qt, 1.0 Imp qt)                                |          |     |                                        |        | 1.7 Liters (1.8 US qt, 1.5 Imp qt)                               |
|                                | At oil filter change | —                                                                |          |     |                                        |        | 1.9 Liters (2.0 US qt, 1.7 Imp qt)                               |
| Recommended oil                |                      | SAE 10W-30 API service classification SE or later                |          |     |                                        |        |                                                                  |
| Cooling system                 |                      | Forced air                                                       |          |     |                                        |        |                                                                  |
| Starting system                |                      | Electric starter                                                 |          |     |                                        |        |                                                                  |
| Stopping system                |                      | Primary circuit ground                                           |          |     |                                        |        | Ignition circuit open                                            |
| Carburetor                     |                      | Horizontal type, two barrels, butterfly valve                    |          |     |                                        |        |                                                                  |
| Air cleaner                    |                      | Dual element type                                                |          |     |                                        |        |                                                                  |
| Governor                       |                      | Mechanical centrifugal                                           |          |     |                                        |        |                                                                  |
| Fuel used                      |                      | Unleaded gasoline E10                                            |          |     |                                        |        |                                                                  |
| Fuel capacity                  |                      | 5.4 Liters (1.43 US gal, 1.19 Imp gal)                           |          |     | 8.5 Liters (2.25 US gal, 1.87 Imp gal) |        |                                                                  |

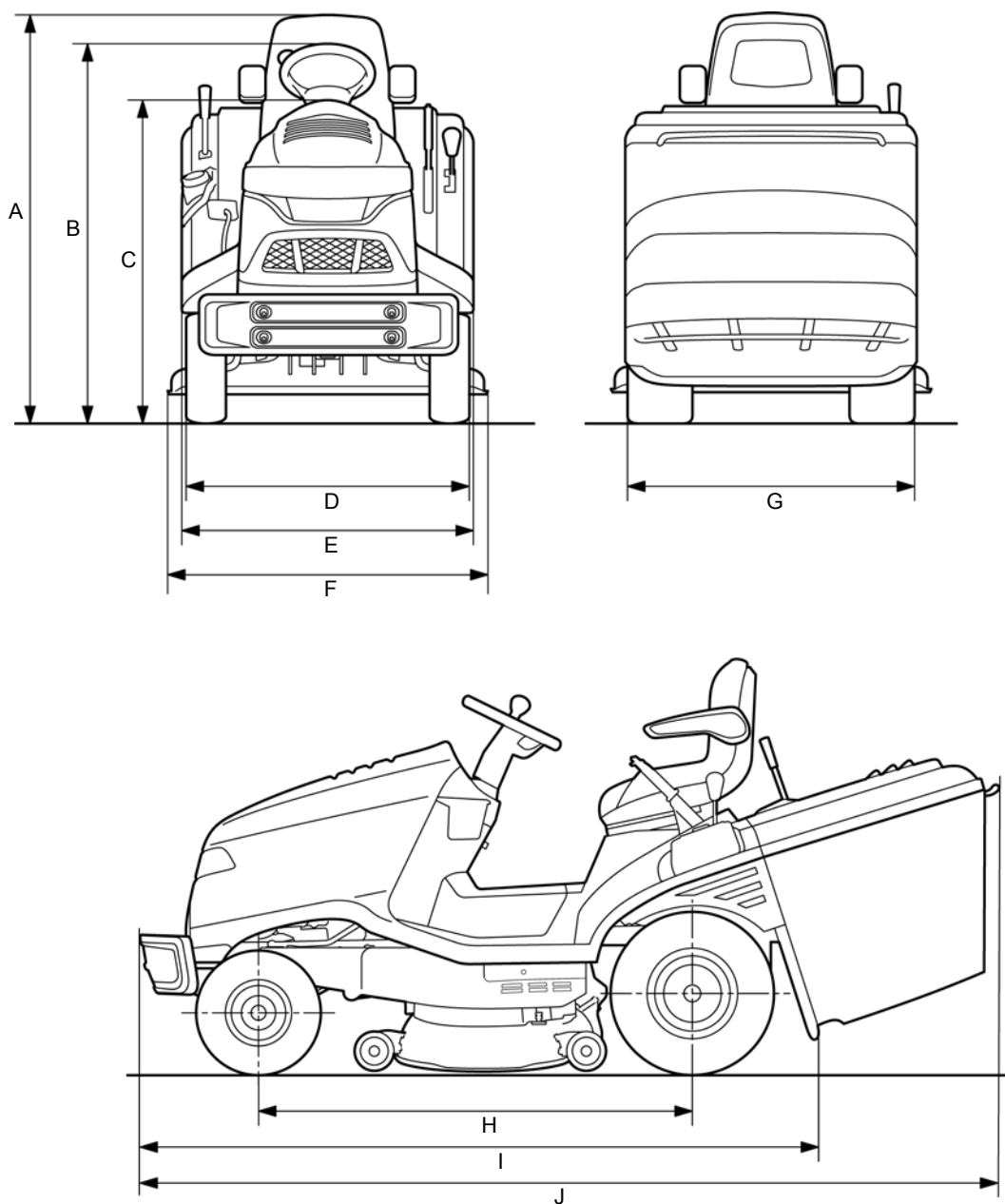
**FRAME**

|                                                           |                           |                                          |                                        |     |     |                                        |      |
|-----------------------------------------------------------|---------------------------|------------------------------------------|----------------------------------------|-----|-----|----------------------------------------|------|
| Model                                                     |                           | HF2317                                   | HF2417K5                               |     |     | HF2625                                 |      |
| Type                                                      |                           | HME                                      | HBE                                    | HME | HTE | HMEH                                   | HTEH |
| Battery                                                   |                           | 12 V/24 Ah                               |                                        |     |     |                                        |      |
| Operating engine speed                                    |                           | 2,800 min <sup>-1</sup> (rpm)            |                                        |     |     |                                        |      |
| Tire size                                                 | Front                     | 13 x 5.00 - 6                            | 15 x 6.00 - 6                          |     |     |                                        |      |
|                                                           | Rear                      | 18 x 8.50 - 8                            |                                        |     |     |                                        |      |
| Transmission                                              | Type                      | Hydrostatic drive                        |                                        |     |     |                                        |      |
|                                                           | Transmission oil capacity | 2.1 Liters (2.22 US gal, 1.85 Imp gal)   |                                        |     |     |                                        |      |
|                                                           | Transmission oil          | SAE 10W-30 API service classification CD |                                        |     |     |                                        |      |
| Forward speed*                                            |                           | 0 – 8.2 km/h max.                        |                                        |     |     |                                        |      |
| Forward speed**                                           | 1st gear                  | –                                        | 1.6 – 2.2 km/h                         |     |     |                                        |      |
|                                                           | 2nd gear                  | –                                        | 3.0 – 3.7 km/h                         |     |     |                                        |      |
|                                                           | 3rd gear                  | –                                        | 4.5 – 5.3 km/h                         |     |     |                                        |      |
|                                                           | 4th gear                  | –                                        | 5.9 – 6.8 km/h                         |     |     |                                        |      |
| Reverse speed                                             |                           | 0 – 4.2 km/h max.                        |                                        |     |     |                                        |      |
| Minimum uncut radius                                      |                           | 1.0 m (3.93 in)                          |                                        |     |     | 0.8 m (3.15 in)                        |      |
| Cutting width                                             |                           | 920 mm (36.2 in)                         | 1,020 mm (40.2 in)                     |     |     | 1,220 mm (48.0 in)                     |      |
| Cutting height                                            |                           | 29 – 80 mm (1.1 – 3.1 in)                | 29 – 90 mm (1.1 – 3.5 in)              |     |     |                                        |      |
| Grass bag capacity                                        |                           | 280 Liters (74.0 US gal, 61.6 Imp gal)   | 300 Liters (79.3 US gal, 66.0 Imp gal) |     |     | 350 Liters (92.5 US gal, 77.0 Imp gal) |      |
| Sound pressure level at the ear (2006/42/EC)              |                           | 85 dB (A)                                | 84 dB (A)                              |     |     | 89 dB (A)                              |      |
| Measuring uncertainty                                     |                           | 0.74 dB (A)                              | 1.04 dB (A)                            |     |     | 2.03 dB (A)                            |      |
| Measured acoustic power level (2000/14/EC, 2005/88/EC)    |                           | 99.67 dB (A)                             | 99.53 dB (A)                           |     |     | 103.41 dB (A)                          |      |
| Measuring uncertainty                                     |                           | 0.71 dB (A)                              | 0.62 dB (A)                            |     |     | 0.77 dB (A)                            |      |
| Guaranteed acoustic power level (2000/14/EC, 2005/88/EC)  |                           | 100 dB (A)                               |                                        |     |     | 105 dB (A)                             |      |
| Real value of acceleration on steering wheel (2006/42/EC) |                           | 3.60 m/s <sup>2</sup>                    | 3.30 m/s <sup>2</sup>                  |     |     | 3.50 m/s <sup>2</sup>                  |      |
| Measuring uncertainty                                     |                           | 0.96 m/s <sup>2</sup>                    | 0.93 m/s <sup>2</sup>                  |     |     | 0.97 m/s <sup>2</sup>                  |      |

\*: When the speed holding device is not used. \*\*: When the speed holding device is used.

## SPECIFICATIONS

### DIMENSIONAL DRAWINGS



| Model | HF2317             | HF2417K5           | HF2625             |
|-------|--------------------|--------------------|--------------------|
| Type  | HME                | HBE/HME/HTE        | HMEH/HTEH          |
| A     | 1,290 mm (50.8 in) |                    |                    |
| B     | 1,120 mm (44.1 in) |                    |                    |
| C     | 990 mm (40.0 in)   |                    |                    |
| D     | 835 mm (32.9 in)   | 880 mm (34.6 in)   |                    |
| E     | 950 mm (37.4 in)   |                    |                    |
| F     | 960 mm (37.8 in)   | 1,060 mm (41.7 in) | 1,250 mm (49.2 in) |
| G     | 950 mm (37.4 in)   |                    |                    |
| H     | 1,150 mm (45.3 in) |                    |                    |
| I     | 1,870 mm (73.6 in) |                    |                    |
| J     | 2,460 mm (96.9 in) |                    |                    |

# 2. SERVICE INFORMATION

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MAINTENANCE STANDARDS .....2-2      HARNESS AND TUBE ROUTING ..... 2-3

## SERVICE INFORMATION

# MAINTENANCE STANDARDS

## ENGINE

### GCV530

Unit: mm (in)

| Part         | Item                               |                 | Standard                                                                                  | Service limit  |
|--------------|------------------------------------|-----------------|-------------------------------------------------------------------------------------------|----------------|
| Engine       | Maximum speed (with blade engaged) |                 | 2,800 0 – 150 min <sup>-1</sup> (rpm)                                                     | –              |
|              | Idle speed                         |                 | 1,400 + 200 – 150 min <sup>-1</sup> (rpm)                                                 | –              |
|              | Cylinder compression               |                 | 0.5 – 0.7 MPa (5.1 – 7.1 kgf/cm <sup>2</sup> , 73 – 101 psi)/ 600 min <sup>-1</sup> (rpm) | –              |
| Piston rings | Ring side clearance                | Top             | 0.050 – 0.084 (0.0020 – 0.0033)                                                           | 0.15 (0.006)   |
|              |                                    | Second          | 0.030 – 0.064 (0.0012 – 0.0025)                                                           | 0.15 (0.006)   |
|              | Ring end gap                       | Top             | 0.200 – 0.300 (0.0079 – 0.0118)                                                           | 1.0 (0.04)     |
|              |                                    | Second          | 0.350 – 0.500 (0.0138 – 0.0197)                                                           | 1.0 (0.04)     |
|              |                                    | Oil (side rail) | 0.20 – 0.50 (0.008 – 0.020)                                                               | 1.0 (0.04)     |
|              | Ring width                         | Top/second      | 1.160 – 1.175 (0.0457 – 0.0463)                                                           | 1.140 (0.0449) |
| Carburetor   | Main jet                           | No.1            | #92.5                                                                                     | –              |
|              |                                    | No.2            | #93.8                                                                                     | –              |
|              | Pilot jet                          | No.1            | #37.5                                                                                     | –              |
|              |                                    | No.2            | #37.5                                                                                     | –              |
|              | Float height                       |                 | 18.5 (0.73)                                                                               | –              |
|              | Pilot screw opening                | No.1            | 1-1/2 turns out                                                                           | –              |
|              |                                    | No.2            | 2-3/8 turns out                                                                           | –              |

### GXV690H

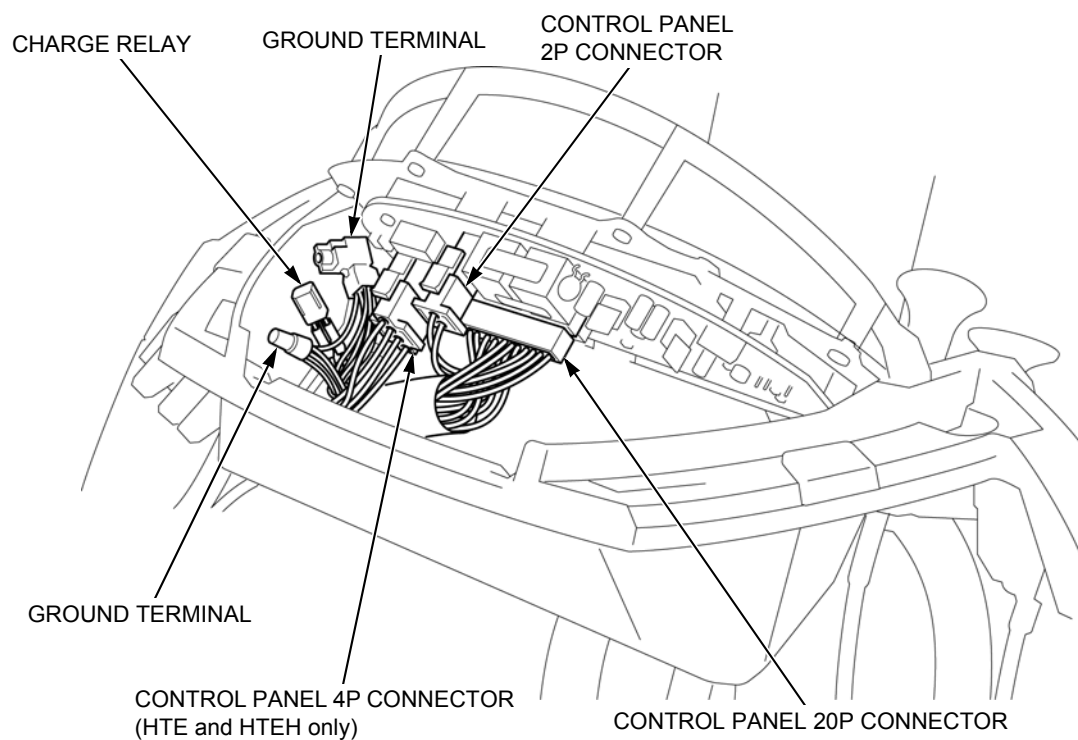
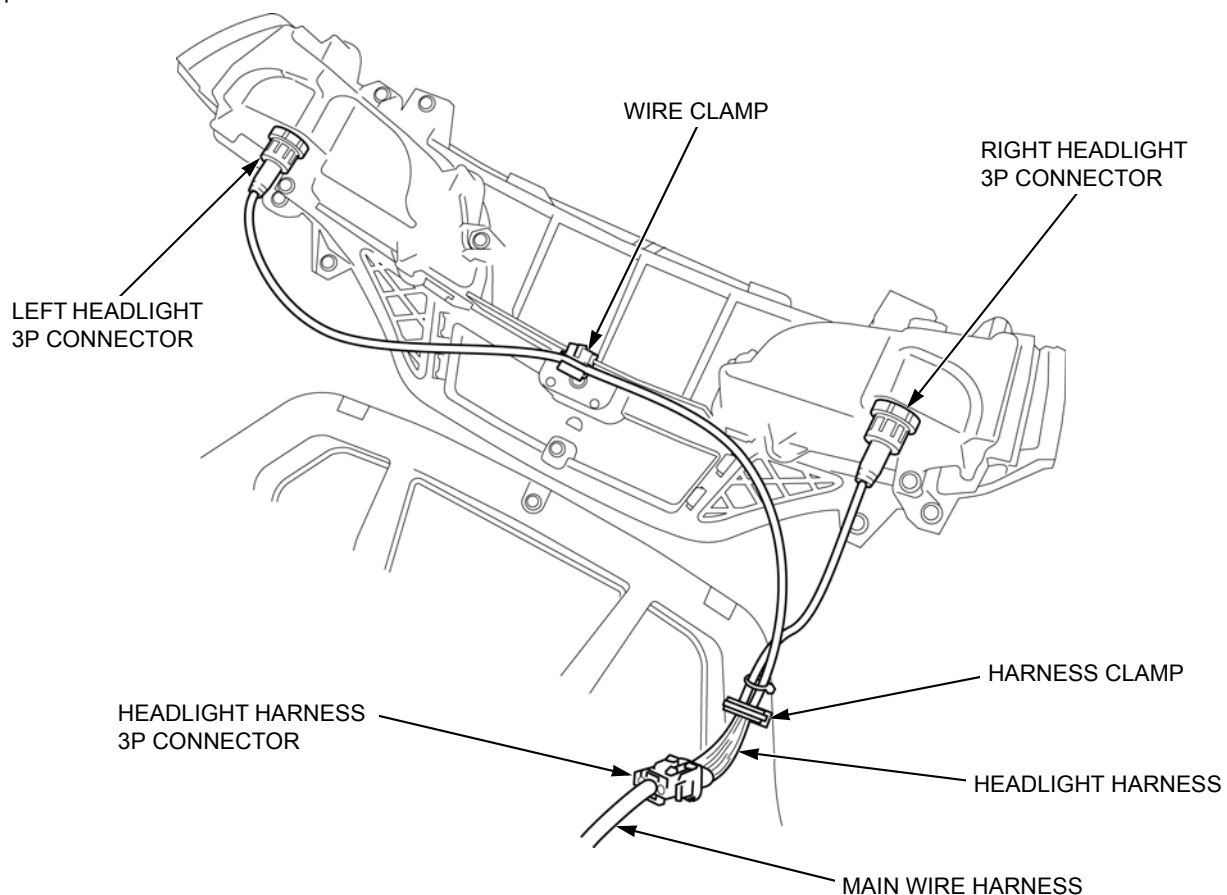
Unit: mm (in)

| Part       | Item                               |      | Standard                                                                | Service limit |
|------------|------------------------------------|------|-------------------------------------------------------------------------|---------------|
| Engine     | Maximum speed (with blade engaged) |      | 2,800 0 – 150 min <sup>-1</sup> (rpm)                                   | –             |
|            | Idle speed                         |      | 1,400 + 200 – 150 min <sup>-1</sup> (rpm)                               | –             |
|            | Cylinder compression               |      | 0.51 MPa (5.2 kgf/cm <sup>2</sup> , 74 psi)/500 min <sup>-1</sup> (rpm) | –             |
| Carburetor | Main jet                           | No.1 | #120                                                                    | –             |
|            |                                    | No.2 | #122                                                                    | –             |
|            | Float height                       |      | 15.5 (0.61)                                                             | –             |
|            | Pilot screw opening                | No.1 | 1-5/8 turns out                                                         | –             |
|            |                                    | No.2 | 2-1/8 turns out                                                         | –             |

# HARNESS AND TUBE ROUTING

## FRAME

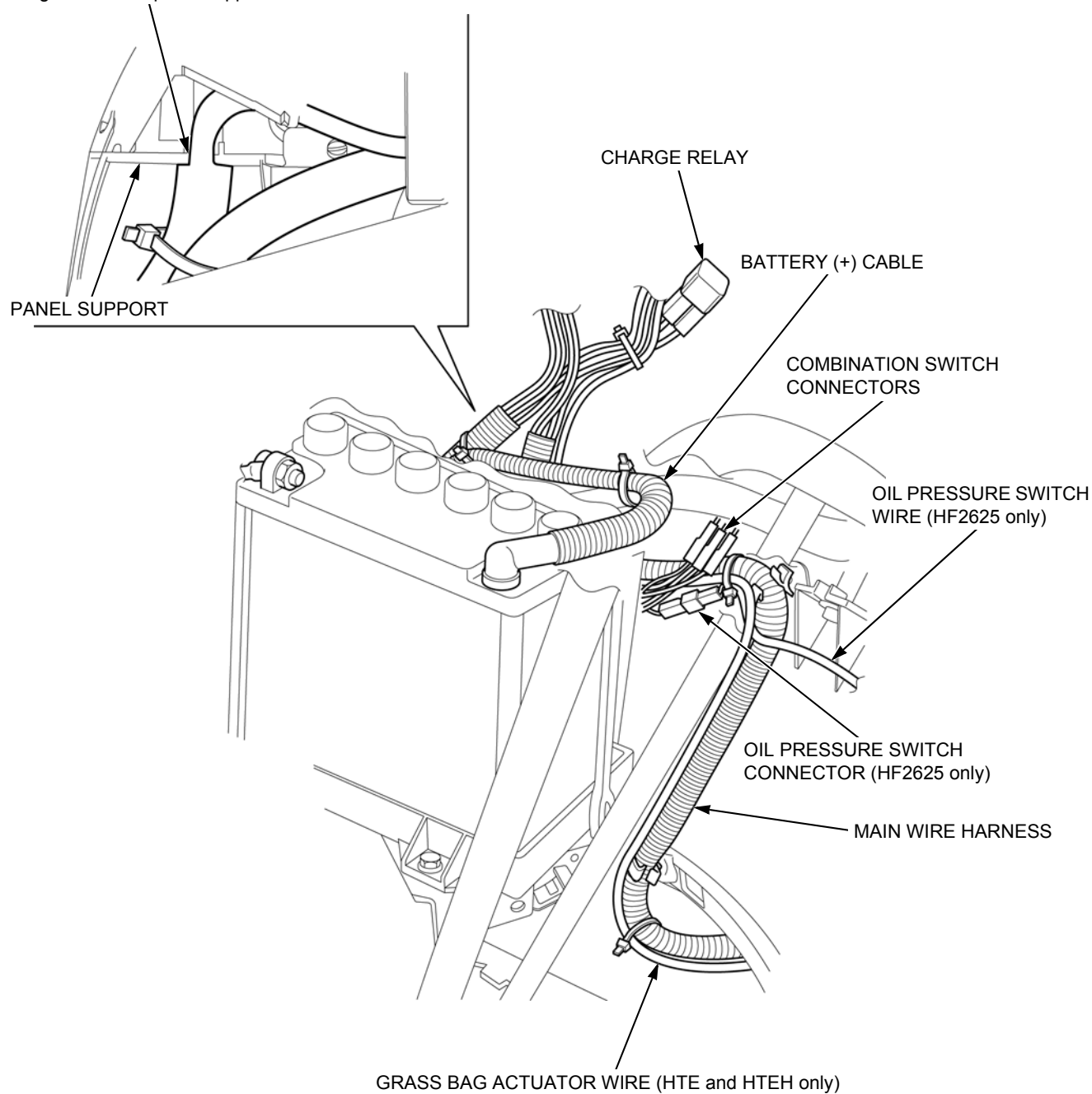
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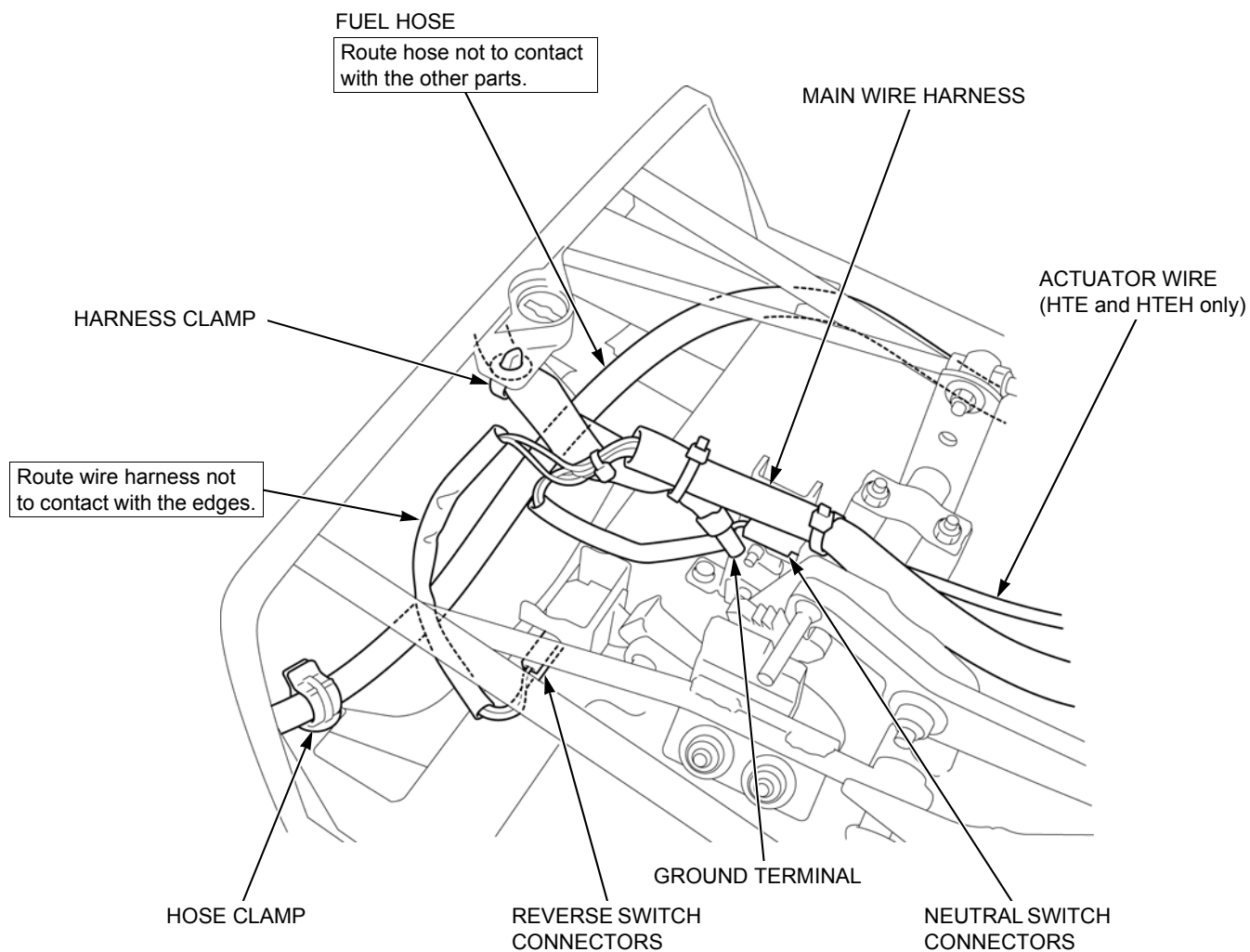
## SERVICE INFORMATION

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Insert the main wire harness into the groove in the panel support.



Except HF2317 and HF2417 HBE:



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## MEMO

|                                                            |     |                                                                |     |
|------------------------------------------------------------|-----|----------------------------------------------------------------|-----|
| MAINTENANCE SCHEDULE.....                                  | 3-2 | BRAKE CHECK/ADJUSTMENT<br>(Except HF2317 and HF2417 HBE) ..... | 3-4 |
| MAINTENANCE INDICATOR INFORMATION<br>(Except HF2317) ..... | 3-3 |                                                                |     |

## MAINTENANCE

# MAINTENANCE SCHEDULE

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

| ITEM<br>Perform at every indicated month or operating hour interval, whichever comes first. |                                          | REGULAR SERVICE PERIOD |                           |                           |                        |                           |               |
|---------------------------------------------------------------------------------------------|------------------------------------------|------------------------|---------------------------|---------------------------|------------------------|---------------------------|---------------|
|                                                                                             |                                          | Each use               | Every 3 months or 20 hrs. | Every 6 months or 50 hrs. | Every year or 100 hrs. | Every 2 years or 300 hrs. | Refer to page |
| Engine oil                                                                                  | Check                                    | ○                      |                           |                           |                        |                           | 3-4*          |
|                                                                                             | Change                                   |                        | ○ (1)                     |                           | ○                      |                           | 3-4*          |
| Air cleaner                                                                                 | Check                                    | ○                      |                           |                           |                        |                           | 3-6*          |
|                                                                                             | Clean                                    |                        | ○ (1)                     | ○ (2)                     |                        |                           | 3-7*          |
|                                                                                             | Replace                                  |                        |                           |                           | ○ (5)                  | ○ (6)                     | 3-6*          |
| Cooling fan screen grid, cooling air duct screen, cooling air intake                        | Check-clean                              | ○                      |                           |                           |                        |                           | —             |
| Muffler, muffler protector                                                                  | Clean                                    | ○                      |                           |                           |                        |                           | —             |
| Battery                                                                                     | Charge                                   |                        |                           |                           | (**)                   |                           | 8-5*          |
|                                                                                             | Check electrolyte level                  | ○                      |                           |                           |                        |                           | 3-8*          |
|                                                                                             | Check electrolyte level and acid density |                        |                           |                           | ○ (3)                  |                           | 8-4*          |
| Tire & air pressure                                                                         | Check                                    | ○                      |                           |                           |                        |                           | 19-6*         |
| Blade condition                                                                             | Check                                    | ○                      |                           |                           |                        |                           | 3-11*         |
| Blade bolts                                                                                 | Check                                    |                        | ○ (1)                     |                           | ○                      |                           | 3-11*         |
| Blade belt                                                                                  | Check-adjust                             |                        | ○ (1)                     |                           | ○                      |                           | 3-9*          |
| Transmission belt                                                                           | Check-adjust                             |                        | ○ (1)                     |                           | ○                      |                           | 3-10*         |
| Brake                                                                                       | Brake condition                          | ○                      |                           |                           | ○                      |                           | 3-4           |
|                                                                                             | Tightening of brake control rod          |                        | ○ (1)                     |                           | ○                      |                           | 18-4*<br>18-2 |
|                                                                                             | Parking brake function                   | ○                      |                           |                           | ○                      |                           | —             |
| Front and rear axle grease                                                                  | One pump grease                          |                        |                           |                           | ○                      |                           | 3-12*         |
| Throttle cable                                                                              | Check-adjust                             |                        |                           |                           | ○                      |                           | 6-18*         |
| Fuel tank, line                                                                             | Check-change if needed                   |                        |                           |                           |                        | ○ (3)                     | 6-22*         |
| Fuel filter                                                                                 | Check-change if needed                   |                        |                           |                           |                        | ○ (3)                     | 3-14*         |
| Fuel tube                                                                                   | Check-change if needed                   |                        |                           |                           |                        | ○ (3)                     | 6-22*         |
| Valve clearance                                                                             | Check-adjust                             |                        |                           |                           | ○ (3)                  |                           | 15-14*        |
| Spark plug                                                                                  | Check-clean                              |                        |                           |                           | ○                      |                           | 3-13*         |
|                                                                                             | Change                                   |                        |                           |                           |                        | ○                         | 3-13*         |
| Engine idling speed and maximum speed                                                       | Check-adjust                             |                        |                           |                           | ○ (3)                  |                           | 7-6*<br>7-8*  |
| Engine timing belt                                                                          | Check                                    |                        |                           |                           |                        | ○ (3) (4)                 | 15-26*        |
| Speed holding device                                                                        | Check                                    | ○                      |                           |                           |                        |                           | —             |
| Cutter deck inside                                                                          |                                          | ○                      |                           |                           |                        |                           | —             |
|                                                                                             | Clean                                    | (After use)            |                           |                           |                        |                           | —             |
| Mulch flap                                                                                  | Check-clean                              | ○                      |                           |                           |                        |                           | —             |
|                                                                                             | Check-adjust if needed                   |                        |                           |                           | ○                      |                           | 17-40*        |

(\*\*) If the machine has not been used for more than 2 months.

(1) Use this interval for the first service only.

(2) Service the air cleaner more frequently when used in dusty areas.

(3) Require dedicated tools or technical skill.

(4) When worn or damaged, replace.

(5) GCV530

(6) GXV690

# MAINTENANCE INDICATOR INFORMATION (Except HF2317)

If the operating hour reaches the specified maintenance interval, the maintenance indicator [1] turns on and the maintenance code appears on the LCD [2] when the combination switch is turned to "ON".

Reset the maintenance indicator and maintenance code after the maintenance service is completed.

To reset the indicator and code, press and hold the MODE button [3] for 10 seconds with the combination switch turned to "ON" and engine stopped.

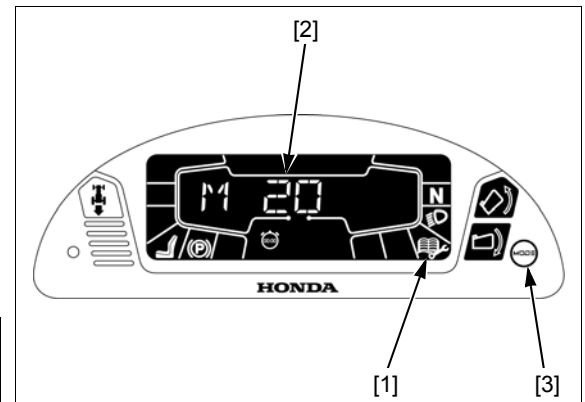
## Timing of the maintenance indicator and code:

| Operating hours  | 20   | 40  | 50  | 60  | 80  | 100 |
|------------------|------|-----|-----|-----|-----|-----|
| Maintenance code | M20  | ○   | ○   |     | ○   | ○   |
|                  | M50  |     |     | ○   |     | ○   |
|                  | M100 |     |     |     |     | ○   |
|                  | M300 |     |     |     |     |     |
| Operating hours  | 120  | 140 | 150 | 160 | 180 | 200 |
| Maintenance code | M20  | ○   | ○   |     | ○   | ○   |
|                  | M50  |     |     | ○   |     | ○   |
|                  | M100 |     |     |     |     | ○   |
|                  | M300 |     |     |     |     |     |
| Operating hours  | 220  | 240 | 250 | 260 | 280 | 300 |
| Maintenance code | M20  | ○   | ○   |     | ○   | ○   |
|                  | M50  |     |     | ○   |     | ○   |
|                  | M100 |     |     |     |     | ○   |
|                  | M300 |     |     |     |     | ○   |

○: Indicator turns on and code appears

## NOTE:

- When the timings of M20, M50, M100 and M300 are overlapped, they are displayed in order at the interval of 2 seconds.
- If the maintenance code is not display or it cannot be reset immediately after stopping the engine, wait until the battery voltage drops down under 12.7 V. Then try to check or reset the maintenance code.



### BRAKE CHECK/ADJUSTMENT (Except HF2317 and HF2417 HBE)

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the grass catch plate (page 17-36\*).

Engage the parking brake and measure the brake adjuster spring [1] length.

**SPRING LENGTH: 45.0 – 47.0 mm (1.77 – 1.85 in)**

**NOTE:**

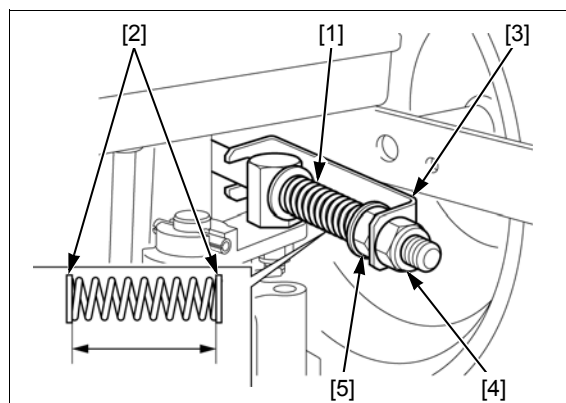
- Measure the length between the insides of the washers [2].
- Never adjust the length below 45.0 mm (1.77 in) to avoid overloading the brake unit.

Adjust the spring length by holding on the bracket [3], loosening the lock nut [4] and turning the adjusting nut [5] right or left.

After adjustment, tighten the lock nut securely.

Install the grass catch plate (page 17-36\*).

If braking is still poor after adjustment, check the brake pads and disc (page 18-8\*).



**HOOD DISASSEMBLY/ASSEMBLY**  
**(Except HF2317 and HF2417 HBE) .....5-2**

**INSTRUMENT PANEL REMOVAL/**  
**INSTALLATION.....5-3**

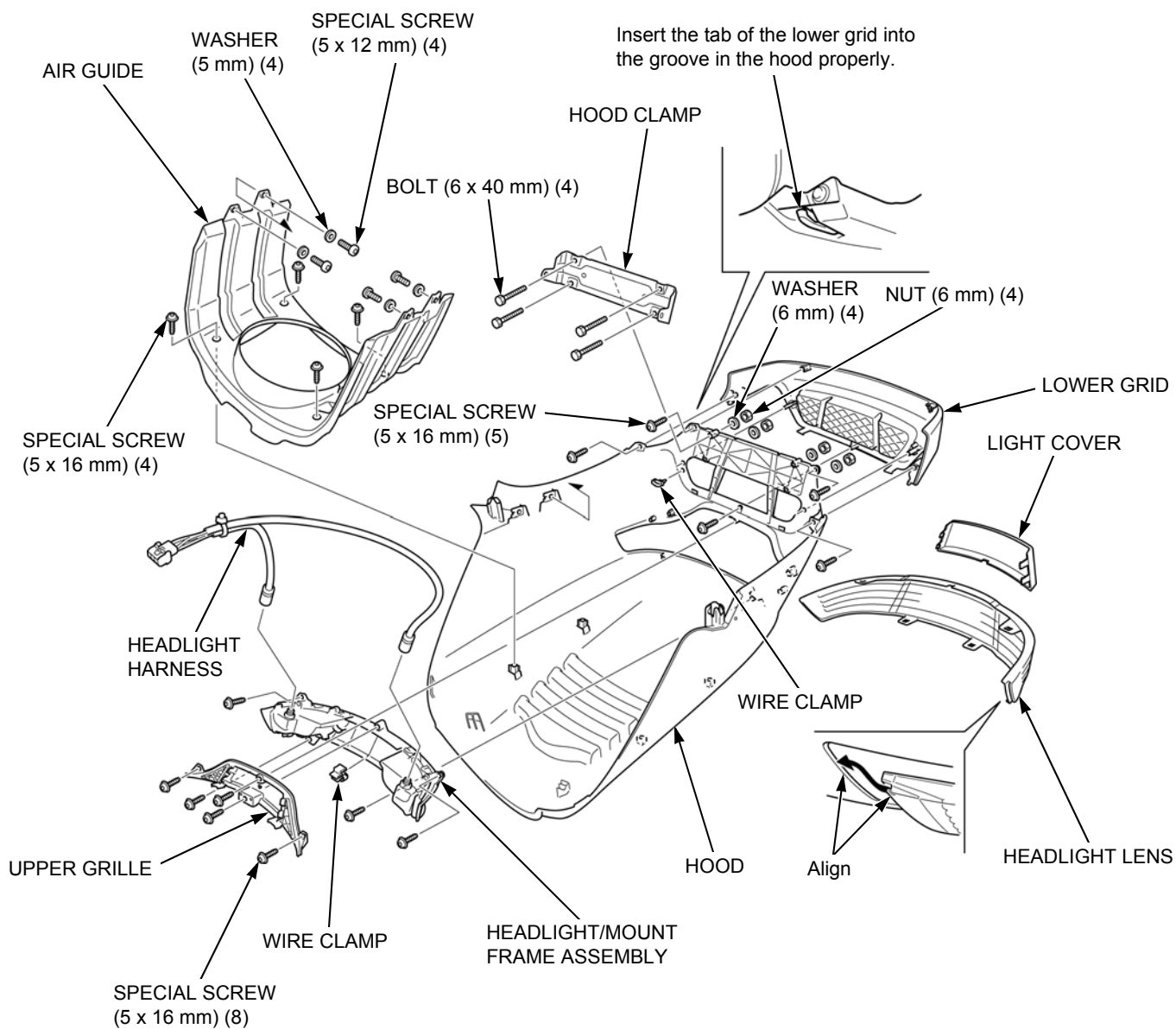
**ARM REST REMOVAL/INSTALLATION**  
**(Except HF2317 and HF2417 HBE) ..... 5-4**

**BUMPER REMOVAL/INSTALLATION**  
**(Except HF2625 HTEH) ..... 5-4**

## HOOD DISASSEMBLY/ASSEMBLY (Except HF2317 and HF2417 HBE)

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the hood (page 5-3\*).



# INSTRUMENT PANEL REMOVAL/INSTALLATION

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

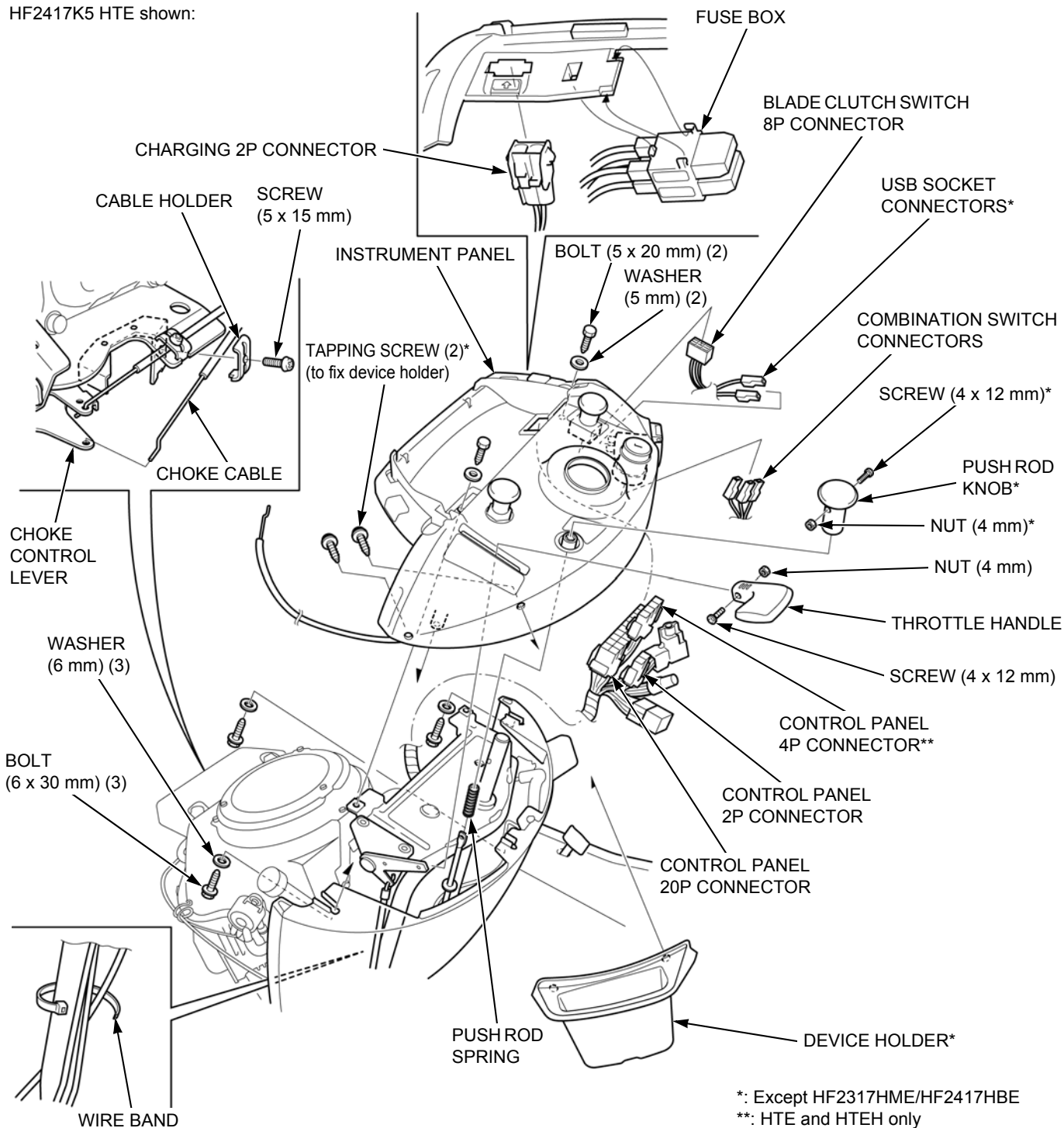
Remove the following:

- Hood (page 5-3\*)
- Battery (page 8-4\*)
- Control panel (page 11-3)
- Steering wheel (page 19-10\*)

NOTE:

- When installing, route the cable properly (page 2-3).
- After installation, adjust the choke cable (page 6-19\*).

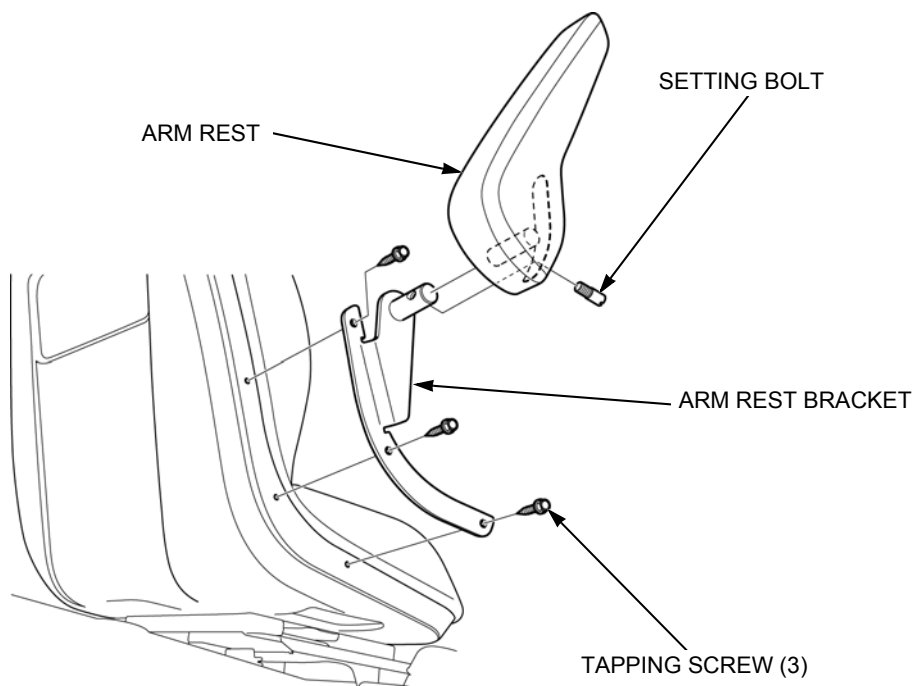
HF2417K5 HTE shown:



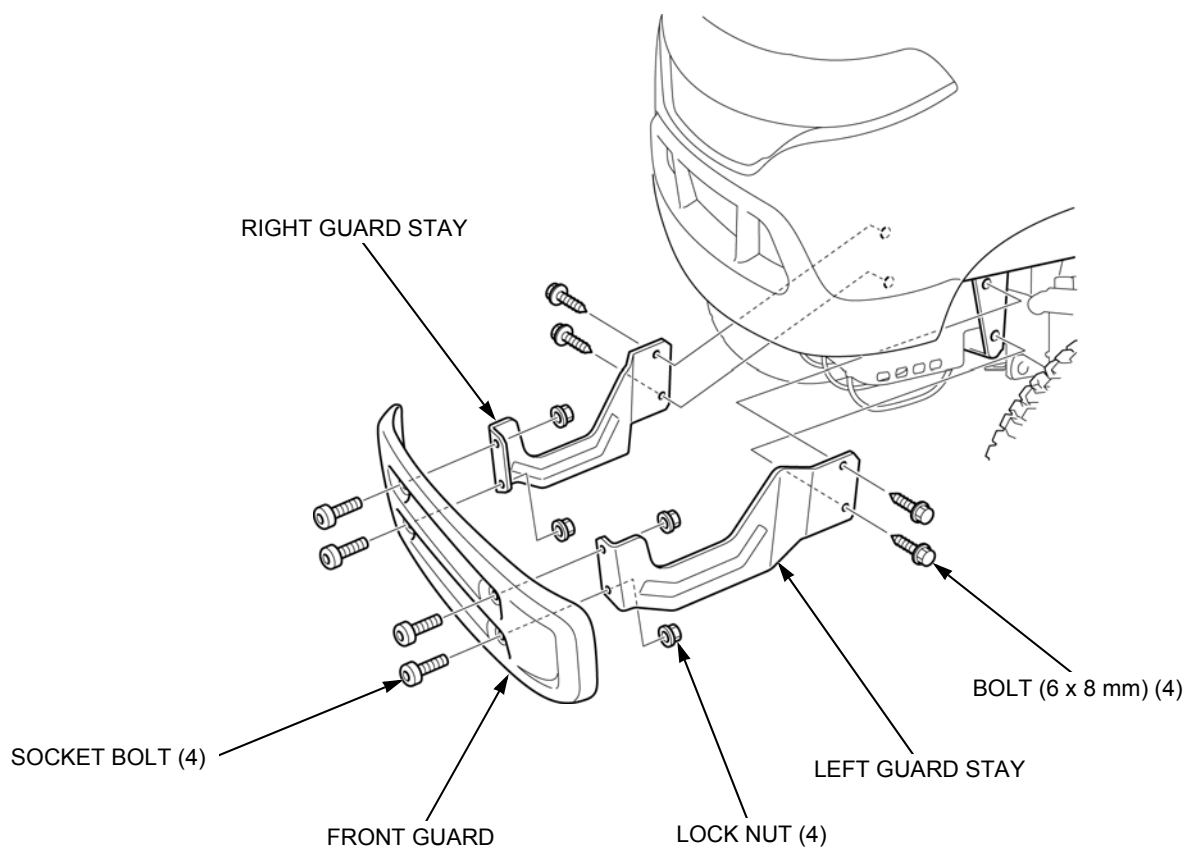
\*: Except HF2317HME/HF2417HBE

\*\* : HTE and HTEH only

## ARM REST REMOVAL/INSTALLATION (Except HF2317 and HF2417 HBE)



## BUMPER REMOVAL/INSTALLATION (Except HF2625 HTEH)



IDLE SPEED CHECK/ADJUSTMENT .....7-2

### IDLE SPEED CHECK/ADJUSTMENT

#### GXV690H

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the hood (page 5-3\*).

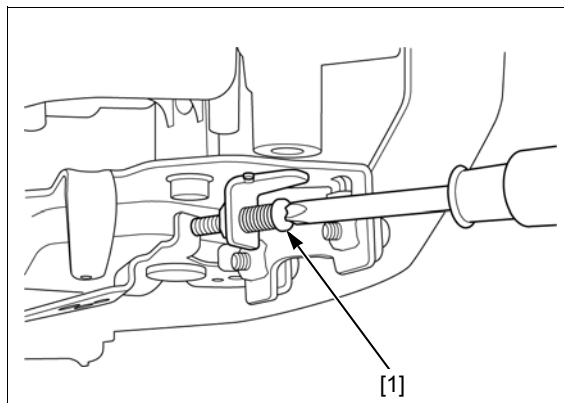
Use a tachometer with graduations of  $50 \text{ min}^{-1}$  (rpm) or smaller that will accurately indicate  $50 \text{ min}^{-1}$  (rpm) changes.

**NOTE:**

- Do not use ENGINE rpm value on the control panel display for engine setting.

Start the engine and allow it to warm up to normal operating temperature.

Turn the idle speed adjusting screw [1] to obtain the specified idle speed.



**IDLE SPEED:**  $1,400 \begin{matrix} + 200 \\ - 150 \end{matrix} \text{ min}^{-1} \text{ (rpm)}$

|                                                                       |      |                                                                            |      |
|-----------------------------------------------------------------------|------|----------------------------------------------------------------------------|------|
| LED HEADLIGHT REPLACEMENT<br>(Except HF2317 and HF2417 HBE) .....     | 11-2 | CONTROL PANEL 20P CONNECTOR<br>TERMINAL ARRANGEMENT .....                  | 11-5 |
| LED HEADLIGHT LINE INSPECTION<br>(Except HF2317 and HF2417 HBE) ..... | 11-2 | GRASS BAG ACTUATOR CIRCUIT<br>INSPECTION<br>(HTE and HTEH type only) ..... | 11-6 |
| CONTROL PANEL REMOVAL/<br>INSTALLATION .....                          | 11-3 | TILT SENSOR CALIBRATION<br>(Except HF2317) .....                           | 11-7 |
| CONTROL PANEL INITIAL OPERATION<br>INSPECTION .....                   | 11-4 | USB SOCKET REMOVAL INSTALLATION<br>(Except HF2317 and HF2417 HBE) .....    | 11-8 |
| CONTROL PANEL POWER/GROUND LINE<br>INSPECTION .....                   | 11-4 |                                                                            |      |

### LED HEADLIGHT REPLACEMENT (Except HF2317 and HF2417 HBE)

Open the hood.

Turn the combination switch to "OFF".

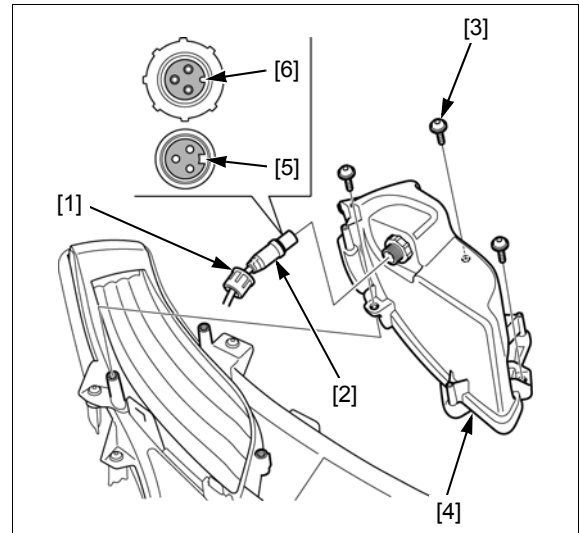
Loosen the retainer [1] to remove it from the headlight 3P connector [2] and disconnect the 3P connector.

Remove the three tapping screws (5 x 16 mm) [3] and headlight [4].

Installation is in the reverse order of removal.

NOTE:

- Connect the 3P connector by aligning the groove [5] with the locating lug [6] of the headlight.



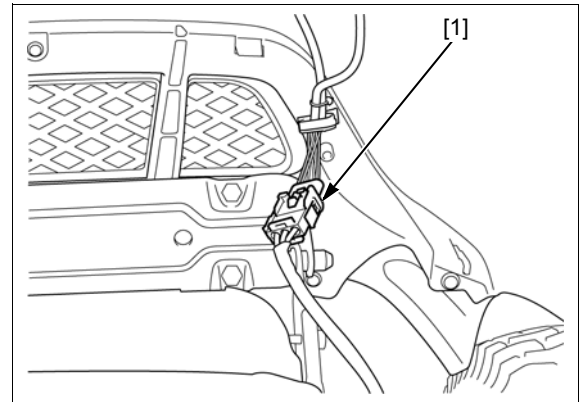
### LED HEADLIGHT LINE INSPECTION (Except HF2317 and HF2417 HBE)

NOTE:

- Before starting the inspection, check the control panel initial operation (page 11-4).

Open the hood.

Turn the combination switch to "OFF" and disconnect the headlight harness 3P connector [1].



### DAYLIGHT LINE

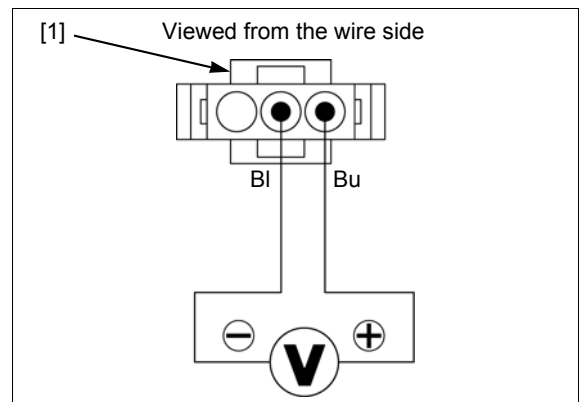
Turn the combination switch to "ON" and measure the voltage at the main wire harness side 3P connector [1].

**CONNECTION: Blue (+) – Black (–)**

There should be battery voltage.

If there is no voltage, check the following:

- Open circuit in the Blue wire between the 3P connector and combination switch
- Open circuit in the Black wire between the 3P connector and ground terminal



## MAIN HEADLIGHT LINE

Turn the combination switch to "ON" and measure the voltage at the main wire harness side 3P connector [1].

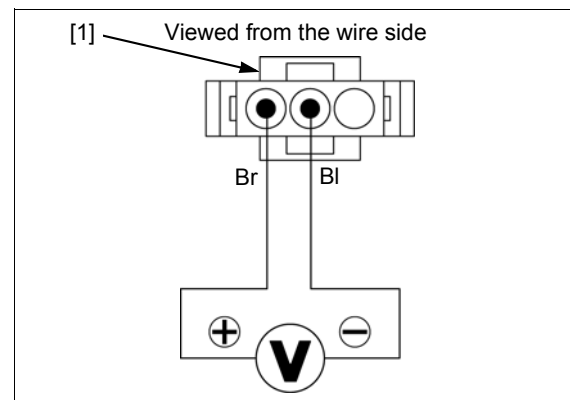
**CONNECTION: Brown (+) – Black (–)**

There should be battery voltage when the surrounding of the control panel (light sensor) is dark.

If there is no voltage, check the following:

- Open circuit in the Brown wire between the 3P connector and control panel
- Open circuit in the Black wire between the 3P connector and ground terminal
- The control panel (light sensor) is faulty if the wires are normal

Also the control panel (light sensor) is faulty if there is voltage when a light is applied to the control panel (light sensor).



## CONTROL PANEL REMOVAL/INSTALLATION

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Disconnect the battery ground cable (page 8-4\*).

Remove the circuit protector (page 5-4\*).

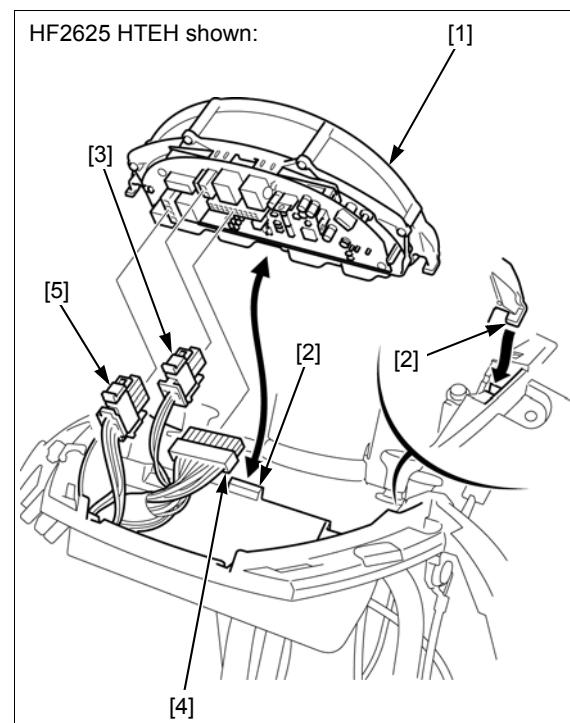
Remove the control panel [1] from the instrument panel by releasing the tabs [2].

Remove the static electricity from the body.

Disconnect the following from the control panel:

- 2P connector [3]
- 20P connector [4]
- 4P connector (HTE and HTEH type only) [5]

Installation is in the reverse order of removal.



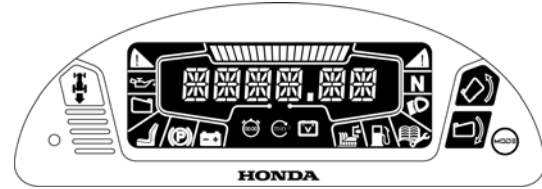
### CONTROL PANEL INITIAL OPERATION INSPECTION

Turn the combination switch to "ON" and check that all indicators and digital segments are shown with a brief buzzer sound.

If the control panel does not show the initial operation, check the power/ground line (page 11-4).

If the power/ground lines are normal, replace the control panel (page 11-3).

HF2625 HTEH shown:



### CONTROL PANEL POWER/GROUND LINE INSPECTION

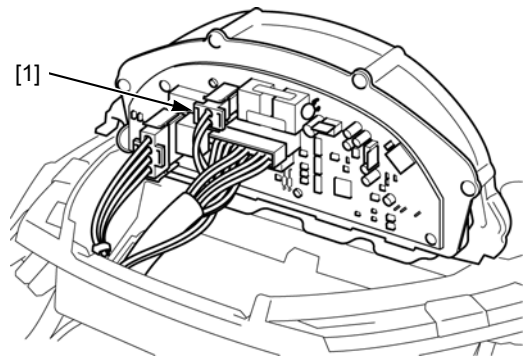
\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the circuit protector (page 5-4\*).

Remove the control panel from the instrument panel.

Turn the combination switch to "OFF" and disconnect the control panel 2P connector [1].

HF2625 HTEH shown:



Turn the combination switch to "ON" and measure the voltage between the wire harness side 2P connector [1] and ground.

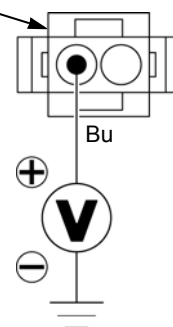
**CONNECTION: Blue (+) – Ground (–)**

There should be battery voltage.

If there is no voltage, check the following:

- Open circuit in the Red wire between the starter magnetic switch and fuse 10 A
- Blown fuse 10 A
- Open circuit in the Red wire between the combination switch and fuse 10 A
- Faulty combination switch
- Loose or poor contact on the combination switch connectors
- Open circuit in the Blue wire between the combination switch and 2P connector

[1] Viewed from the wire side

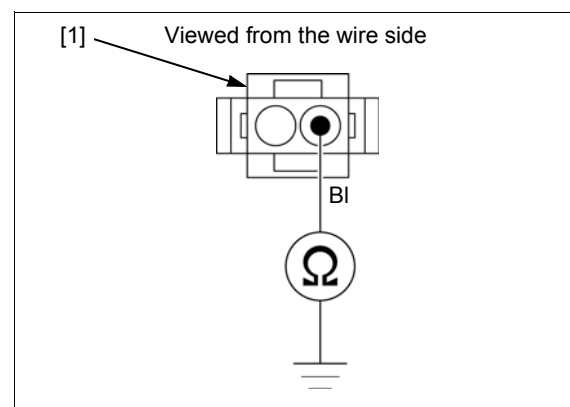


Turn the combination switch to "OFF" and check for continuity at the wire harness side 2P connector [1] and ground.

**CONNECTION: Black – Ground**

There should be continuity at all times.

If there is no continuity, check for open circuit in the Black wire between the 2P connector and ground terminal.



## CONTROL PANEL 20P CONNECTOR TERMINAL ARRANGEMENT

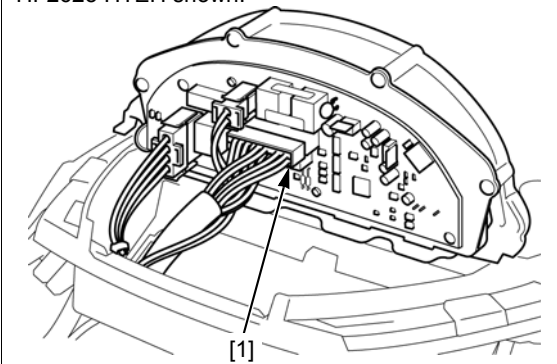
\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the circuit protector (page 5-4\*).

Remove the control panel from the instrument panel.

Turn the combination switch to "OFF" and disconnect the control panel 20P connector [1].

HF2625 HTEH shown:

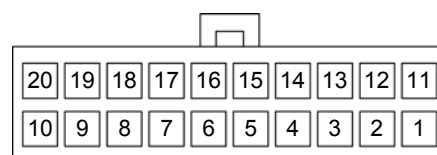


The control panel 20P connector terminal arrangement is as follows:

| No.  | Wire color | Circuit                        |
|------|------------|--------------------------------|
| 1    | —          | —                              |
| 2    | Orange     | Blade clutch switch line (ON)  |
| 3*   | Black      | Engine stop diode line         |
| 4    | Violet     | Starter magnetic switch line   |
| 5    | Yellow     | Fuel sensor line               |
| 6    | Brown      | Grass bag switch line          |
| 7    | Gray       | Neutral switch line            |
| 8    | —          | —                              |
| 9    | Brown      | Main headlight power line      |
| 10** | Black      | Ignition coil line             |
| 11   | —          | —                              |
| 12   | White      | Start signal line              |
| 13   | White      | Grass bag full switch line     |
| 14   | Orange     | Seat switch line               |
| 15** | Yellow     | Oil pressure switch line       |
| 16   | Blue       | Blade clutch switch line (OFF) |
| 17   | Violet     | Parking switch line            |
| 18   | Red        | Reverse switch line            |
| 19*  | Black      | Engine speed read disable line |
| 20** | Yellow     | Engine speed read line         |

### CONTROL PANEL 20P CONNECTOR TERMINAL ARRANGEMENT

Viewed from the wire side



\*: HF2317 and HF2417K5 only, \*\*: HF2625 only

## GRASS BAG ACTUATOR CIRCUIT INSPECTION (HTE and HTEH type only)

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Disconnect the battery ground cable (page 8-4\*).

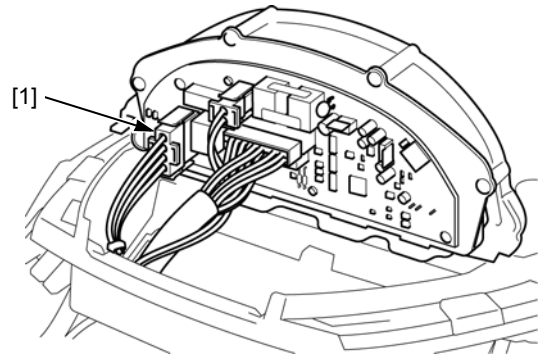
Remove the circuit protector (page 5-4\*).

Remove the control panel from the instrument panel.

Disconnect the control panel 4P connector [1].

Connect the battery ground cable.

HF2625 HTEH shown:



Measure the voltage at the wire harness side 4P connector [1].

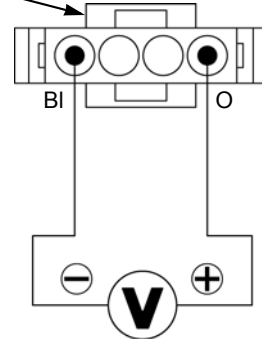
### CONNECTION: Orange (+) – Black (–)

There should be battery voltage at all times.

If there is no voltage, check the following:

- Open circuit in the Orange wire between the starter magnetic switch and fuse 10 A
- Blown fuse 10 A
- Open circuit in the Orange wire between the 4P connector and fuse 10 A
- Open circuit in the Black wire between the 4P connector and ground terminal

[1] Viewed from the wire side



Check for continuity at the wire harness side 4P connector [1].

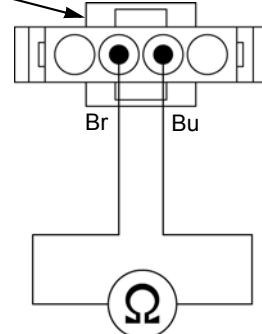
### CONNECTION: Blue – Brown

There should be continuity at all times.

If there is no continuity, check the following:

- Open circuit in the Blue wire between the 4P connector and grass bag actuator 2P connector
- Open circuit in the Brown wire between the 4P connector and grass bag actuator 2P connector
- Faulty grass bag actuator

[1] Viewed from the wire side



## TILT SENSOR CALIBRATION (Except HF2317)

### NOTE:

- This procedure should be performed when the control panel or instrument panel is removed, or the tire is maintained, as these services are related to the machine angle (tilt sensor detection).

### PREPARATION

Place the machine on the horizontal and flat ground.  
(The ground angle should be within  $0 \pm 0.5^\circ$ .)

Make sure that the following conditions are met:

- Ambient temperature is within  $15 - 25^\circ\text{C}$  ( $59 - 77^\circ\text{F}$ ).
- All parts (include optional parts) are equipped with the machine.
- All tire pressures are about specified pressures.

### Cold tire pressure:

**Front:  $100 \pm 10$  kPa ( $1.0 \pm 0.1$  kg/cm<sup>2</sup>,  $15 \pm 1.4$  psi)**

**Rear:  $120 \pm 10$  kPa ( $1.2 \pm 0.1$  kg/cm<sup>2</sup>,  $17 \pm 1.4$  psi)**

- Grass bag is empty.
- Engine is stopped.
- Seat switch is open. (Without operator).
- Parking switch is open. (Parking brake is engaged.)
- Grass bag switch is closed. (With grass bag)
- Neutral switch is closed. (HST is in neutral position.)
- Machine is clean. (If the machine is dirty, clean it.)
- Machine is dry. (If the machine is wet, dry it.)
- Machine is stationary state. (Do not move and vibrate the machine.)
- Tires are not stepping on anything.
- Anything (tool, etc) is not put on the machine.
- Any person and animals except the calibrate person do not touch the machine.

### CALIBRATION PROCEDURE

1. Press and hold the MODE switch [1] and turn the combination switch [2] to "ON".
2. Keep holding the MODE switch for 10 seconds and then release it.

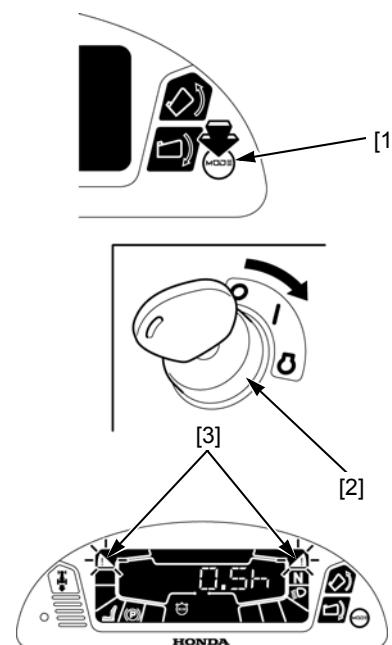
The control panel enters the tilt sensor calibration mode and both tilt indicators [3] start slow-blinking.

### NOTE:

- If the control panel does not enter the calibration mode immediately after stopping the engine, wait until the battery voltage drops down under 12.7 V. Then try to calibrate the sensor from step 1.
3. Press the MODE switch again within 30 seconds after both tilt indicators start slow-blinking.
- The control panel calibrates the tilt sensor and both tilt indicators [3] start fast-blinking.
4. When the control panel completes the calibration, both tilt indicators start slow-blinking again. (The calibration is successful.) Turn the combination switch to "OFF".

If each tilt indicator turns on and off alternately, the calibration is failed. Turn the combination switch to "OFF" and perform the calibration procedure from step 1 again.

HF2625 HTEH shown:



## USB SOCKET REMOVAL INSTALLATION (Except HF2317 and HF2417 HBE)

\*: Refer to page of the HF2315K2/HF2417K3/HF2622  
base shop manual (62VK100).

Remove the battery (page 8-4\*).

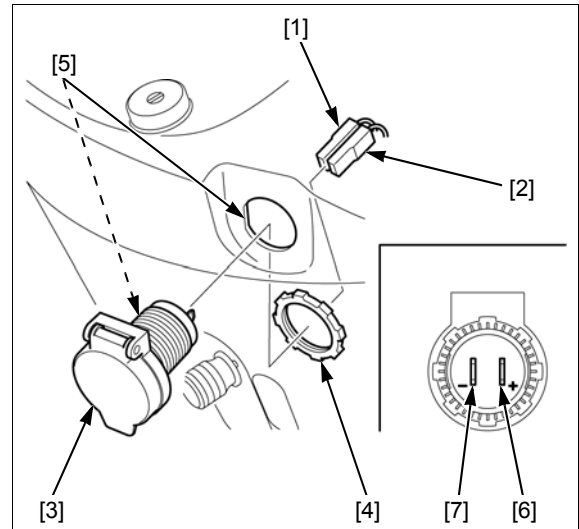
Disconnect the Black wire connector [1] and Blue wire  
connector [2] from the USB socket [3].

Remove the ring nut [4] and USB socket from the  
instrument panel.

Installation is in the reverse order of removal.

**NOTE:**

- Align the flat surfaces [5] of the USB socket and  
instrument panel.
- Connect the Blue wire connector to the (+) terminal  
[6] and the Black wire connector to the (-) terminal  
[7].



**BRAKE PEDAL REMOVAL/INSTALLATION**  
**(Except HF2317 and HF2417 HBE) .....18-2**

## BRAKE SYSTEM

### BRAKE PEDAL REMOVAL/ INSTALLATION (Except HF2317 and HF2417 HBE)

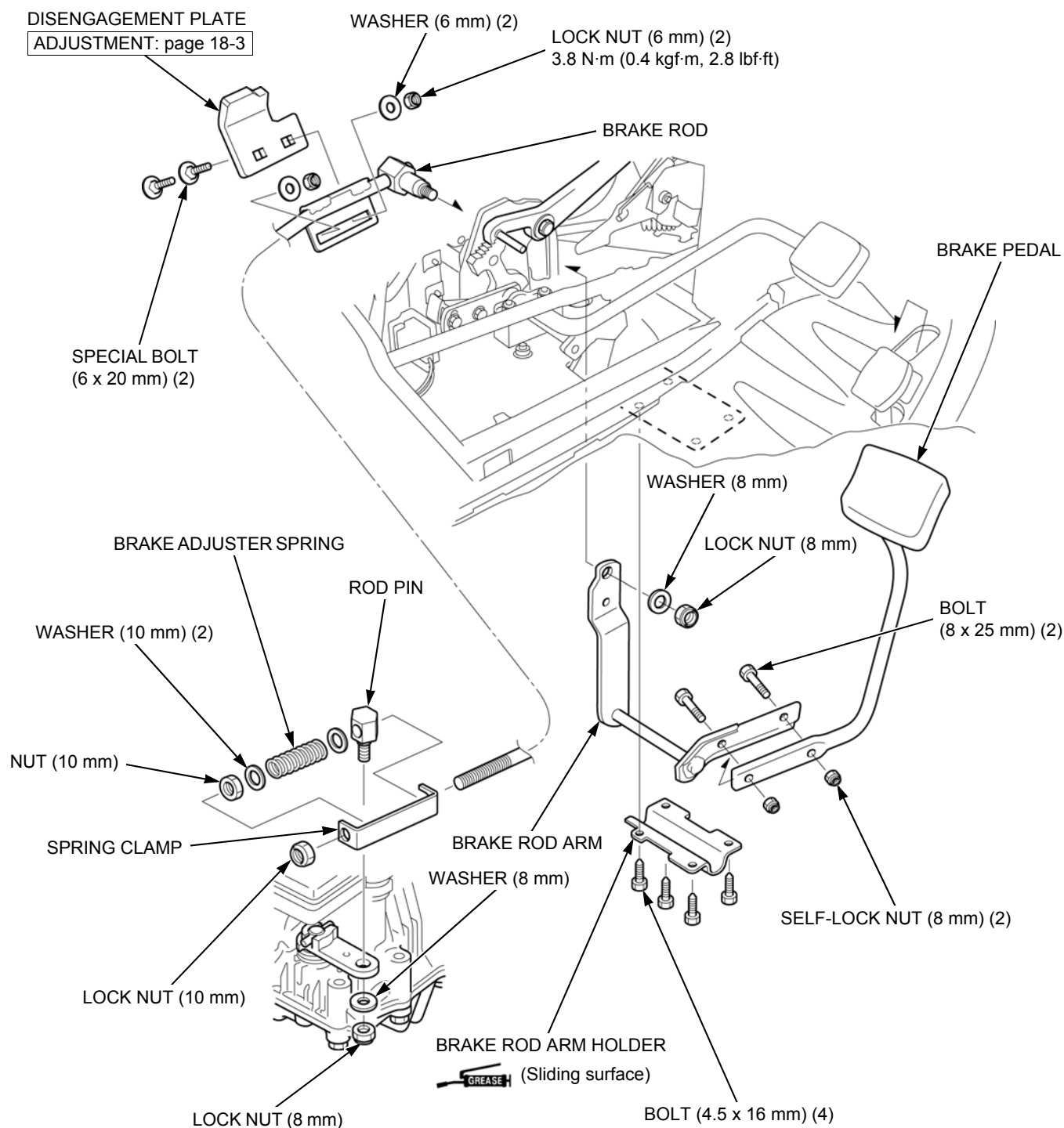
\*: Refer to page of the HF2315K2/HF2417K3/HF2622  
base shop manual (62VK100).

Remove the following:

- Inspection cover (page 5-4\*)
- Grass catch plate (page 17-36\*)

NOTE:

- After installation, adjust the brake (page 3-4).



## DISENGAGEMENT PLATE ADJUSTMENT

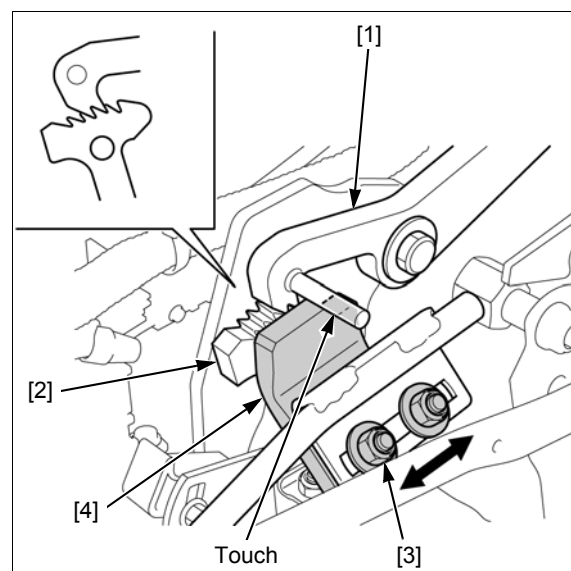
Press the forward gear pedal and pull the push rod knob to engage the speed hold system. (The gears of the hold hook [1] and forward gear pedal [2] should be engaged.)

Loosen the two lock nuts [3].

Move the disengagement plate [4] sideways so that its ramp touches the pin of the hold hook as shown.

After adjustment, tighten the lock nut to the specified torque.

**TORQUE: 3.8 N·m (0.4 kgf·m, 2.8 lbf·ft)**



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## MEMO

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## 19. STEERING SYSTEM

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STEERING WHEEL KNOB REMOVAL/  
INSTALLATION (HF2625 only) .....19-2

### STEERING WHEEL KNOB REMOVAL/ INSTALLATION (HF2625 only)

#### REMOVAL/INSTALLATION

Remove the top cover [1].

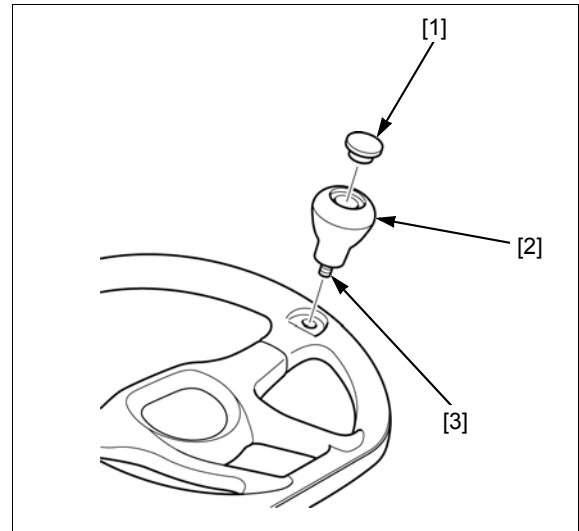
Remove the steering wheel knob [2] by loosening the torx screw [3].

Installation is in the reverse order of removal.

#### TORQUE:

**Torx screw:**

**15 N·m (1.5 kgf·m, 11 lbf·ft)**



# 20. TRANSMISSION SYSTEM

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**SPEED HOLD HOOK REMOVAL/  
INSTALLATION**  
(Except HF2317 and HF2417 HBE) .....20-2

**FORWARD GEAR/REVERSE PEDAL  
REMOVAL/INSTALLATION**  
(Except HF2317 and HF2417 HBE) ..... 20-3

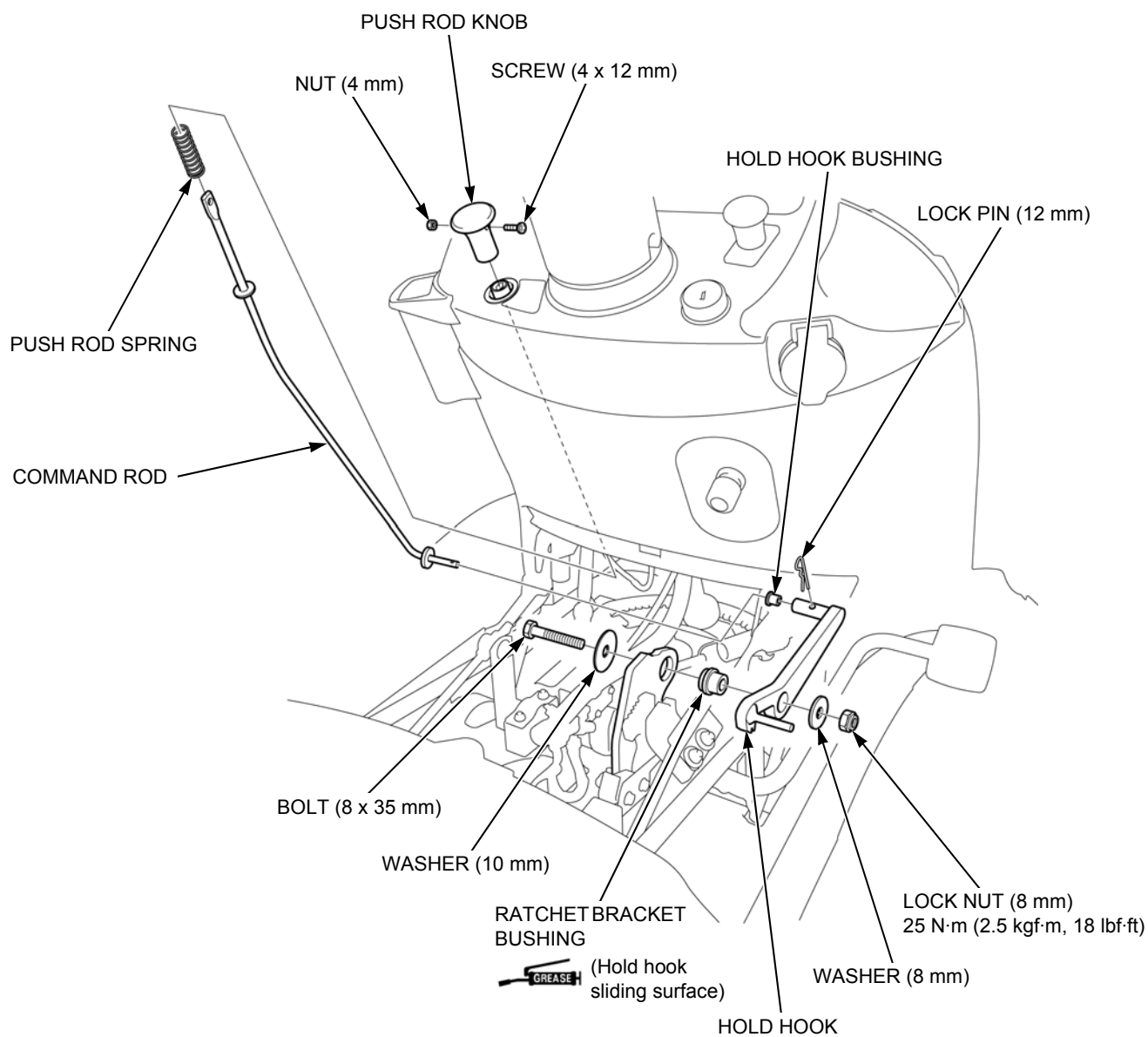
**REVERSE SWITCH INSPECTION ..... 20-4**

### SPEED HOLD HOOK REMOVAL/ INSTALLATION (Except HF2317 and HF2417 HBE)

\*: Refer to page of the HF2315K2/HF2417K3/HF2622  
base shop manual (62VK100).

Open the hood.

Remove the inspection cover (page 5-4\*).



# FORWARD GEAR/REVERSE PEDAL REMOVAL/INSTALLATION (Except HF2317 and HF2417 HBE)

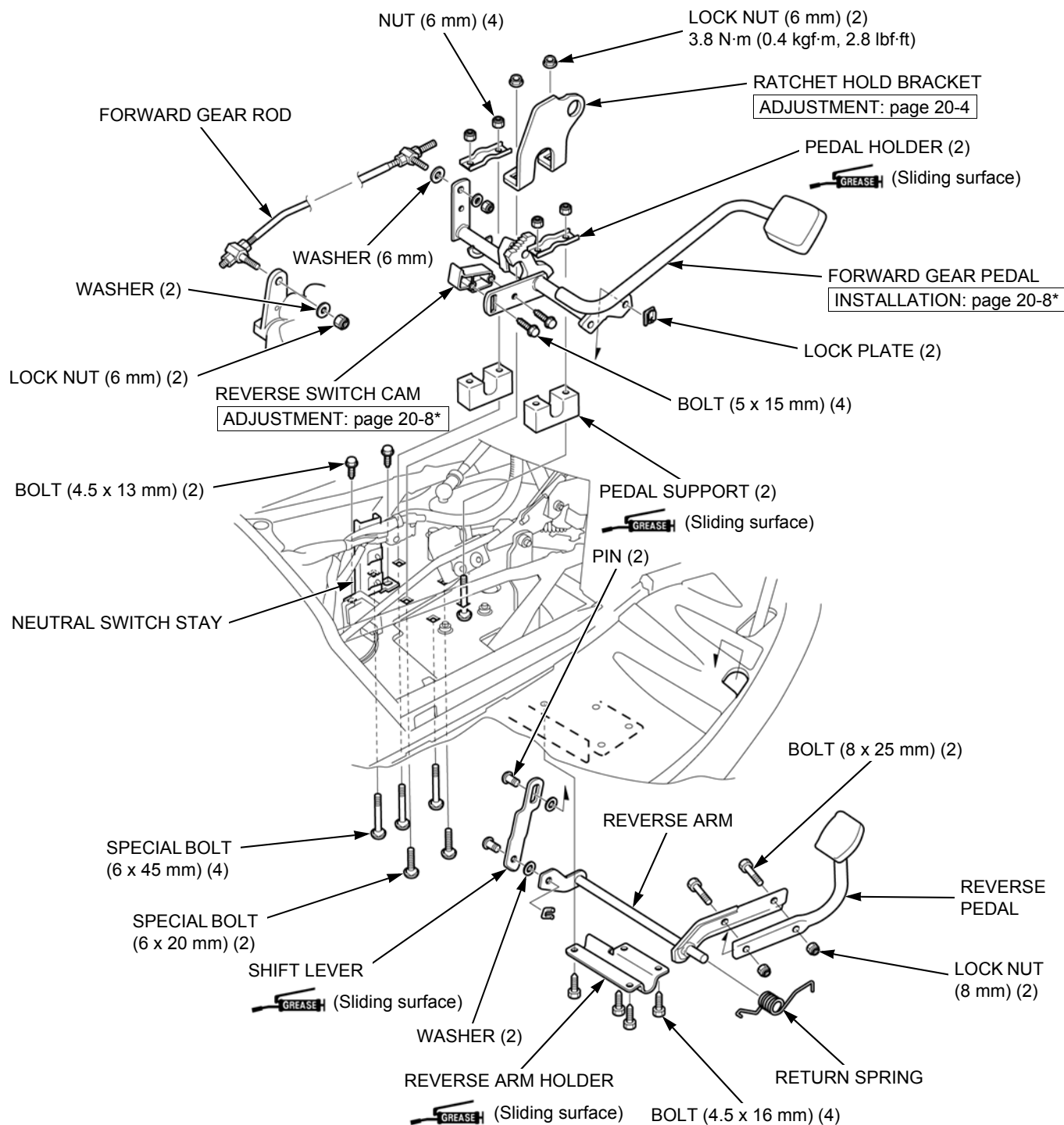
\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the following:

- Speed hold hook (page 20-2)
- Chute (page 17-35\*)

NOTE:

- After installation, adjust the neutral switch (page 20-9\*).



## TRANSMISSION SYSTEM

### RATCHET HOLD BRACKET ADJUSTMENT

Loosen the two lock nuts [1].

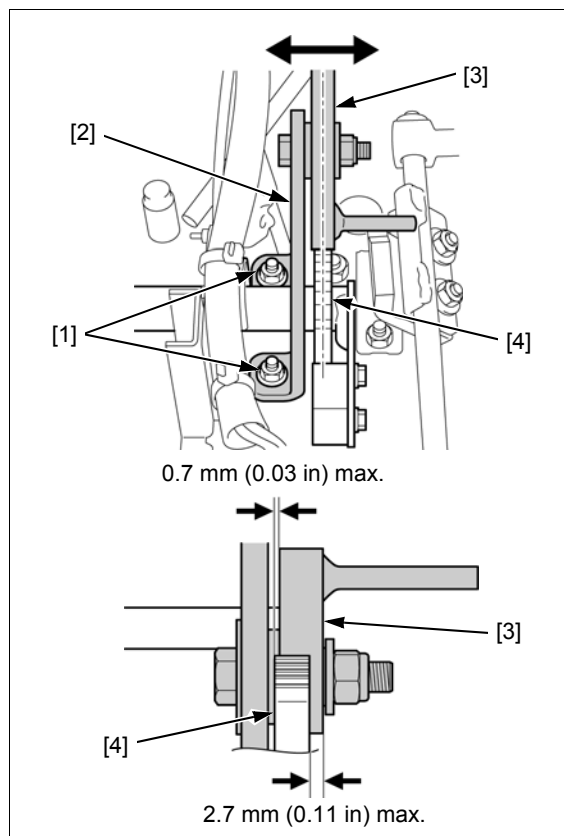
Move the ratchet hold bracket assembly [2] sideways and align the ratchet centers of the hold hook [3] and the forward gear pedal [4].

NOTE:

- A maximum allowable deviance is 0.7 mm (0.03 in).  
This means 2.7 mm (0.11 in) on opposite side.

After adjustment, tighten the lock nut to the specified torque.

**TORQUE: 3.8 N·m (0.4 kgf·m, 2.8 lbf·ft)**



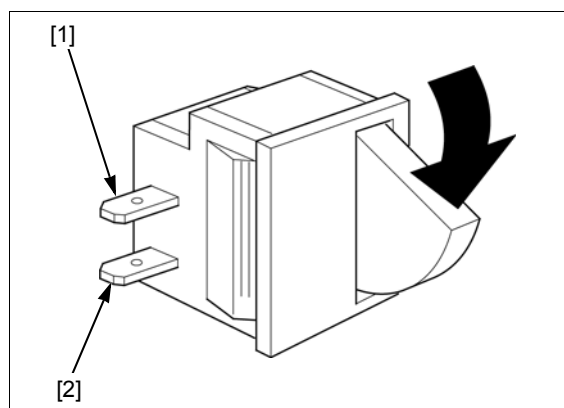
### REVERSE SWITCH INSPECTION

\*: Refer to page of the HF2315K2/HF2417K3/HF2622 base shop manual (62VK100).

Remove the reverse switch (page 20-8\*).

Check for continuity between the switch terminals.

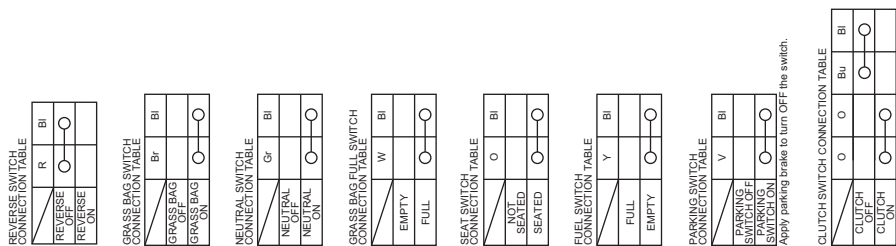
|      | BI [1] | R [2] |
|------|--------|-------|
| FREE | ○ — ○  |       |
| PUSH |        |       |



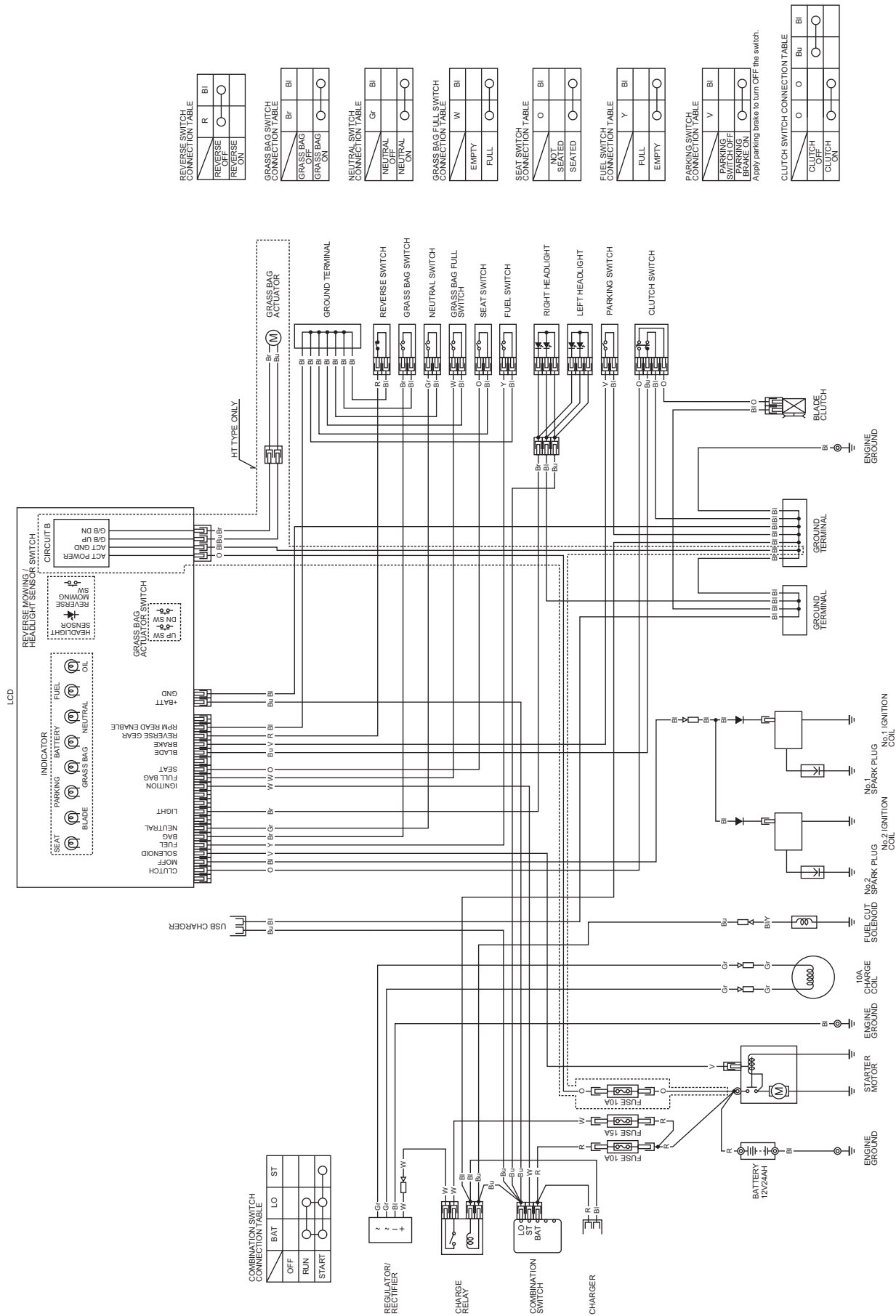
WIRING DIAGRAMS .....21-2

## WIRING DIAGRAMS

**HF2317 HME/HF2417K5 HBE**

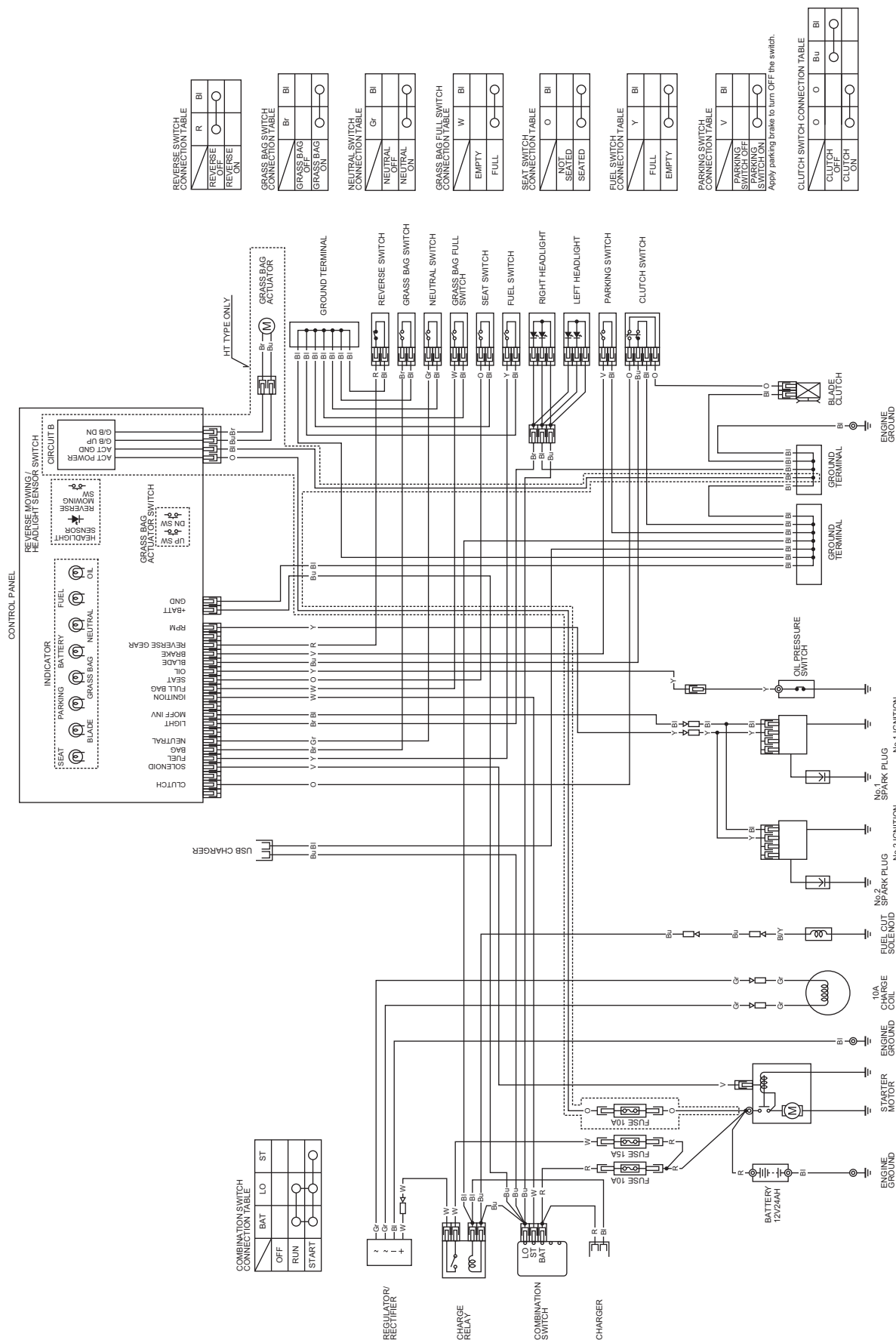


HF2417K5 HME/HF2417K5 HTE



# WIRING DIAGRAMS

HF2625 HMEH/HF2625 HTEH



|                                                                                        |      |                                                                              |      |
|----------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------|------|
| ARM REST REMOVAL/INSTALLATION<br>(Except HF2317 and HF2417 HBE) .....                  | 5-4  | HOOD DISASSEMBLY/ASSEMBLY<br>(Except HF2317 and HF2417 HBE) .....            | 5-2  |
| BRAKE CHECK/ADJUSTMENT<br>(Except HF2317 and HF2417 HBE) .....                         | 3-4  | IDLE SPEED CHECK/ADJUSTMENT .....                                            | 7-2  |
| BRAKE PEDAL REMOVAL/INSTALLATION<br>(Except HF2317 and HF2417 HBE) .....               | 18-2 | INSTRUMENT PANEL REMOVAL/INSTALLATION .....                                  | 5-3  |
| BUMPER REMOVAL/INSTALLATION<br>(Except HF2625 HTE) .....                               | 5-4  | LED HEADLIGHT LINE INSPECTION<br>(Except HF2317 and HF2417 HBE) .....        | 11-2 |
| CONTROL PANEL 20P CONNECTOR TERMINAL<br>ARRANGEMENT .....                              | 11-5 | LED HEADLIGHT REPLACEMENT<br>(Except HF2317 and HF2417 HBE) .....            | 11-2 |
| CONTROL PANEL INITIAL OPERATION<br>INSPECTION .....                                    | 11-4 | MAINTENANCE INDICATOR INFORMATION<br>(Except HF2317) .....                   | 3-3  |
| CONTROL PANEL POWER/GROUND LINE<br>INSPECTION .....                                    | 11-4 | MAINTENANCE SCHEDULE .....                                                   | 3-2  |
| CONTROL PANEL REMOVAL/INSTALLATION .....                                               | 11-3 | MAINTENANCE STANDARDS .....                                                  | 2-2  |
| DIMENSIONAL DRAWINGS .....                                                             | 1-4  | REVERSE SWITCH INSPECTION .....                                              | 20-4 |
| FORWARD GEAR/REVERSE PEDAL REMOVAL/<br>INSTALLATION (Except HF2317 and HF2417 HBE) ... | 20-3 | SPECIFICATIONS .....                                                         | 1-2  |
| GRASS BAG ACTUATOR CIRCUIT INSPECTION<br>(HTE and HTEH type only) .....                | 11-6 | SPEED HOLD HOOK REMOVAL/INSTALLATION<br>(Except HF2317 and HF2417 HBE) ..... | 20-2 |
| HARNESS AND TUBE ROUTING .....                                                         | 2-3  | STEERING WHEEL KNOB REMOVAL/INSTALLATION<br>(HF2625 only) .....              | 19-2 |
|                                                                                        |      | TILT SENSOR CALIBRATION (Except HF2317) .....                                | 11-7 |
|                                                                                        |      | USB SOCKET REMOVAL INSTALLATION<br>(Except HF2317 and HF2417 HBE) .....      | 11-8 |
|                                                                                        |      | WIRING DIAGRAMS .....                                                        | 21-2 |