

# DEALER SETUP INSTRUCTION



**P/N XXXXXXXX**

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## APPLICATION

2018 GTS 150

## BEFORE YOU BEGIN

Read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

## TOOLS NEEDED

- Torque Wrench
- Side Cutting Pliers
- Pliers
- Wrenches: 8mm, 10mm, 12mm, 19mm
- Hex Sockets: 8mm, 10mm, 14mm, 17mm, 24mm
- Philips Screwdriver: #2

## SETUP TIME

Approximately: 90 Minutes

## IMPORTANT

Your Dealer Setup Instruction is exclusively designed for this vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

## SETUP PREPARATION

Tools Needed
Side Cutting Pliers

1. Remove plastic straps using side cutting pliers



2. Open cardboard flaps and use side cutting pliers to remove white zip ties



3. Remove exterior cardboard packing



4. Remove loose components from the vehicle chassis and set safely aside for installation



## INSTALLATION – FRONT SUSPENSION

Tools Needed
Pliers
Hex Sockets: 13mm, 17mm, 19mm
Wrenches: 14mm

1. Elevate the Front of the Vehicle

CAUTION
Serious injury may result if the vehicle tips or falls. Be sure the vehicle is secure before beginning this procedure. Always wear eye protection.

2. Align Strut and Spindle Support to the square hole on the Lower Suspension A-Arm assembly.
3. Install bolt into hole and add washer and Castle Nuts as shown



4. Torque to Specification

Hardware
Front Lower Castle Nut: M12 x 1.25
Torque
Front Lower Castle Nut: 70 +/- 10 lb-ft (96 +/- 15 Nm)

5. Install Cotter Pins
6. Ensure Tail of Cotter pin is Separated
7. Locate Tie Rod Ball Head
8. Remove Cotter Pin, Castle Nut, Locking Washer, and Flat washer shown from Tie Rod End



9. Install Tie Rod End/Ball Head through hole. Add flat washer, locking washer, and Castle Nut



10. Torque Castle Nut to Specification

Hardware
Front Tie Rod Castle Nuts: M10 x 1.25
Torque
Front Tie Rod Castle Nuts: 38 +/- 1 lb-ft (52 +/- 2 Nm)

11. Install Cotter Pin
12. Ensure Tail of Cotter Pin is Separated
13. Install Dust Seals
14. Repeat Steps 1-13 for the other side of the vehicle

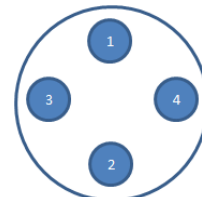
## INSTALLATION – FRONT WHEELS

Tools Needed
Pliers
Hex Sockets: 14mm
Air Compressor
Tire Pressure Gauge

1. Inflate front tires to specification

MEASUREMENT
Wheel Pressure: 10 PSI (69 kPa)

2. With the front of the vehicle remaining elevated, install the front wheels. (Valve Stem Out)
3. Moderately Tighten All Wheel Lugs
4. Torque wheel lugs to specification in the order shown



Hardware
Front Wheel Lugs: M10 x 1.25
Torque
Front Wheel Lugs: 70 +/- 10 lb-ft (96 +/- 15 Nm)

5. Lower vehicle to ground

## INSTALLATION – REAR SHOCKS

Tools Needed
Hex Sockets: 13mm
Wrenches: 14mm

1. Elevate the Rear of the Vehicle

CAUTION
Serious injury may result if the vehicle tips or falls. Be sure the vehicle is secure before beginning this procedure. Always wear eye protection.

2. Remove stabilization packing bar. Discard bar, retain hardware for step 3.



3. Mount the Rear Left and Rear Right Shock Assemblies.



4. Tighten mounting bolts to specified Torque

Hardware
Shock Mounting Bolts: M10 x 1.25
Torque
Shock Mounting Bolts: 38 +/- 1.5 lb-ft (52 +/- 2 Nm)

## INSTALLATION – REAR WHEELS

Tools Needed
Hex Sockets: 24mm
Pliers
Air Compressor
Tire Pressure Gauge

1. Inflate rear tires to specification

MEASUREMENT
Wheel Pressure: 10 PSI (69 kPa)

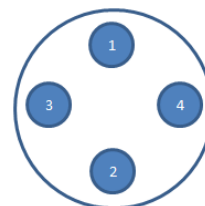
2. With the rear of the vehicle remaining elevated, install the rear wheels.
3. Install wheels as shown (Valve Stem Out)



4. Torque Castle Nuts to Specification

Hardware
Rear Wheel Castle Nut: M16 x 1.5
Torque
Rear Wheel Castle Nut: 85 +/- 10 lb-ft (115 +/- 17 Nm)

5. Install Cotter Pins
6. Ensure Tail of Cotter Pin is Separated
7. Install Rubber Covers
8. Torque wheel lugs to specification in the order shown



Hardware
Rear Wheel Lugs: M10 x 1.25
Torque
Rear Wheel Lugs: 70 +/- 10 lb-ft (96 +/- 15 Nm)

9. Lower the Rear of the Vehicle



## INSTALLATION – SEATS

1. Slide seat back onto 2 tubes of seat base.



3. Torque the bolts to the required specification

Hardware
Seat Belt Mounting Bolts: 7/16" x 28
Torque
Seat Belt Mounting Bolts: 38 +/- 1 lb-ft (52 +/- 2 Nm)

4. Final results of seatbelt installation shown below:



## INSTALLATION – SEATBELTS

Tools Needed
Hex Sockets: 14mm
Wrenches: 19mm

1. The following hardware will be used in the installation of the seatbelts.



2. Feed the seatbelt through the seat and fasten to mounting hole as shown.



## INSTALLATION – CARGO RACK

1. The following hardware will be used in the installation of the cargo rack



2. Install the brackets pictured above to secure the cargo rack to the frame.
3. The installed bracket is shown



4. Torque the bolts to specification

Hardware
Cargo Rack Mounting Bolts: M8 x 20
Torque
Cargo Rack Mounting Bolts: 20 +/- 2 lb-ft (28 +/- 2 Nm)

5. Finish installing the cargo rack by securing it in front with 2 bolts to the chassis frame.
6. Torque the bolts to the specification below

Hardware
Cargo Rack Mounting Bolts: M8 x 20
Torque
Cargo Rack Front Mounting Bolts: 20 +/- 2 lb-ft (28 +/- 2 Nm)

## INSTALLATION – FUEL TANK

Tools Needed
Hex Sockets: 10mm
Wrenches: 10mm

1. The following hardware will be used in the installation of the tank.



2. Remove both zip ties holding tank and bracket together.



3. Place the tank and bracket assembly into the correct position.



4. Install the four flat washers as shown in-between the tank and the tank bracket as shown.



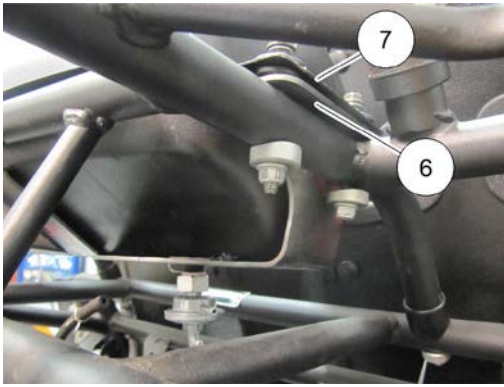
5. Install the four fuel tank collars as shown below.



6. Install a washer onto each of the four bolts, and insert bolts through tank and frame.



7. Loosely install the four R-washers and nuts from the bottom side of the frame.



#### NOTE

Ensure the arced side of the washer is seated in-line with the frame tube.

8. Using a 10 mm wrench and socket, torque bolts to 8 ft-lbs (11 Nm).

#### NOTE

There will be a gap between the support bracket (6) and the fuel tank flange (7).

#### NOTE

On models with a vacuum fuel valve, the fuel line from the carburetor will attach to the top outlet on the fuel valve and the vacuum line will attach to the bottom outlet on the fuel valve.

#### Fuel Tank Bolt Torque Spec

Fuel Tank Mounting Bolts: 8 +/- 1 lb-ft (11 +/- 1 Nm)

9. Ensure vent line from rollover valve is routed in front of the fuel tank.



10. Install the 90° termination fitting in the hole in the frame tube located below the VIN.



11. Route the fuel vent line down and install on 90° termination fitting.

## ASSEMBLE – BRUSH GUARD

#### Tools Needed

Hex Sockets: 10mm

Wrenches: 12mm

1. **Loosely** Assemble the Brush Guard as shown below





## INSTALLATION – BRUSH GUARD

Tools Needed
Hex Sockets: 10mm
Wrenches: 12mm

1. The following hardware will be used in the installation of the Brush Guard



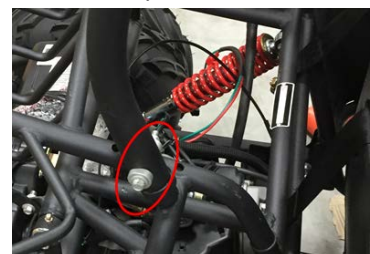
2. Install the brush guard as shown below



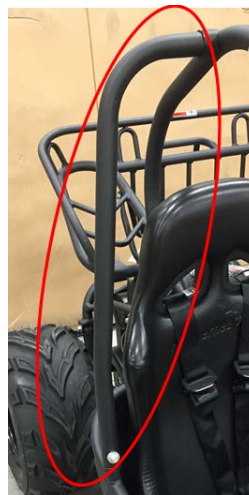
3. Front mount the brush guard in the location shown



4. Rear mount the brush guard as shown (passenger side shown – repeat on driver's side)



5. Add side arm bars to the brush guard on both the right and left side. (Left side shown Below)



6. Torque all bolts to the following specification

Hardware
Brush Guard Mounting Bolts: M8
Torque
Brush Guard Mounting Bolts: 20 +/- 2 lb-ft (28 +/- 2 Nm)

## INSTALLATION – FENDERS

Tools Needed
Hex Sockets: 8mm
Wrenches: 10mm

1. Install the front and rear fenders. The rear fender is shown installed below





## INSTALLATION – CANOPY TOP

1. Velcro the canopy top in place

IMPORTANT
Do not install the canopy top for highway transport. If previously installed, remove for transport.

## INSTALLATION – LIGHTING

Tools Needed
Screwdriver

1. Install the rear reflective light to the cargo rack as shown below



## INSTALLATION – INSTRUMENTATION

Tools Needed
#2 Philip Screwdriver
Wrenches: 10mm

1. The following hardware will be used in the installation of the instrumentation dash



2. Install the instrumentation dash as shown below



## INSTALLATION – STEERING WHEEL

Tools Needed
Hex Sockets: 10mm

1. The following hardware will be used in the installation of the steering wheel



2. Mount the steering wheel to steering column using hardware
3. Torque Steering wheel bolts to specification

Hardware
Steering Wheel Mounting Bolts: M6 x 1 x 16
Torque
Steering Wheel Mounting Bolts: 3-5 lb-ft (4-7 Nm)

4. Place cap over steering wheel as shown below.



## INSTALLATION – BATTERY

Tools Needed
#2 Philip Screwdriver

### ⚠ WARNING

Improperly connecting or disconnecting battery cables can result in an explosion and cause serious injury or death. When removing the battery, always disconnect the negative (-) black cable first. When reinstalling the battery, always connect the negative (-) black cable last.

1. Fill the battery with acid and fully charge the battery.

### IMPORTANT

Ensure all acid from the pack drains into the battery. After the acid is added, ensure the battery is allowed to sit for 30 minutes before charging.

2. Trickle Charge the battery for 8 hours
3. Once the charge is complete, coat the terminals with dielectric grease or petroleum jelly to reduce oxidation and excessive power consumption
4. Install the battery as shown below



5. Install the positive (+) battery cable to the positive (+) battery post with the supplied bolt.
6. Install the negative (-) battery cable to the (-) battery post with the supplied bolt.
7. Tighten the battery cable bolts.
8. Place grey plastic cover over battery
9. Install the battery retention strap.

## BATTERY STORAGE

Whenever the vehicle is not used for a period of three months or more remove the battery from the vehicle. Ensure that it's fully charged, and store it out of the sun in a cool, dry place. Check battery voltage each month during storage and recharge as needed to maintain a full charge.

### NOTE

Battery charge can be maintained by using a battery tender charger or by charging about once a month to make up for the normal self-discharge. Battery tenders can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point.

## INSTALLATION – FINAL STEPS

1. Assembly Check

### IMPORTANT

Check all nuts and bolts, wiring – routing and connections, cables, fuel line, switches, and tire pressures.

2. Fluid Fill

### IMPORTANT

Check and fill the engine with the recommended oil. Fill the fuel tank with the recommended Gasoline. Both recommended values can be found in the specifications table of the Owner's Manual.

3. Turn on the ignition switch and verify the engine starts.
4. Warning Label Validation

### ⚠ WARNING

You must confirm that all warning labels are in place and securely attached. This vehicle cannot be sold without proper labels in place

### IMPORTANT

Reference the owner's manual for warning labels and locations. For a lost, missing, or damaged warning label please contact Hammerhead Off-Road.