

M.Y.2010 Vehicle Torques:

Rev: AE

Station 1:

- Battery box fastener torques (3) = 18 lbs. ft. +/- 2 lbs. ft.
- Passenger foot peg fastener torques (2) = 75 lbs. ft. +/- 5 lbs. ft.
- Lower belt guard fastener torques (2) = 5 lbs. in. +/- 5 lbs. in.
- Upper belt guard fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Swing arm fastener torques (2) = 60 lbs. ft. +/- 5.0 lbs. ft.
- Steering neck bearing race installation torque = 60 lbs. ft. +/- 5 lbs. ft.
- Rear shock fastener torques (2) = 32 lbs. ft. +/- 3 lbs. ft.
- Crank position sensor fastener torque = 105 lbs. in +/- 10 lbs. in.
- Drive sprocket nut seating torque = 100 lbs. ft. +/- 10 lbs. ft.
Back off and re-torque to 35 lbs. ft. +/- 5 lbs. ft.
Then turn to angle 45 deg. +/- 5 deg.
- Drive sprocket lock plate bolt torque (2) = 105 lbs. in. +/- 10 lbs. in.
- Inner primary cover fastener torques (8) = 18 lbs. ft. +/- 2 lbs. ft.
- Starter mounting fastener torques (2) = 18 lbs. ft. +/- 2 lbs. ft.
- Negative cable at starter stud = 18 lbs. ft. +/- 2 lbs. ft.
- Engine mount fastener torques (4) = 32 lbs. ft. +/- 3 lbs. ft.
- Transmission mounting fastener torques (5) = 35 lbs. ft. +/- 4 lbs. ft.
Torque pattern of four nuts before Applying torque to fifth nut.
- Cylinder Head mounting stud torque (2) = 10 lbs. ft. +/- 1 lbs. ft.
- First upper engine mount nut torque (2) = 30 lbs. ft. +/- 3 lbs. ft.
- Second upper engine mount nut torque (2) = 105 lbs. in. +/- 10 lbs. in.
- Upper engine mount to frame torque = 50 lbs. ft. +/- 7 lbs. ft.

Station 1: (Cont.)

- Starter jackshaft fastener torques = 57 lbs. in. +/- 6 lbs. ft.

Station 2:

- Speed sensor fastener torque = 97 lbs. in +/- 10 lbs. in.
- Positive cable at starter nut torque = 105 lbs. in. +/- 13 lbs. in.
- Circuit breaker mounting to battery box torque (2) = 25 lbs. in. +/- 5 lbs. in.
- Circuit breaker terminals torque (2) = 20 lbs. in. +/- 5 lbs. in.
- Ground strap to frame fastener torque = 105 lbs. in. +/- 10 lbs. in.
- Compensator nut torque = 150 lbs. ft. +/-5 lbs. ft.
- Clutch nut torque = 78 lbs. ft. +/- 5 lbs. ft.
- Clutch pressure plate spring bolt torques (6) = 80 lbs. in. +/-8 lbs. ft
- Clutch actuator adjustment nut torque = 22 lbs. ft. +/- 2 lbs. ft.
- Primary chain tensioner plate fastener torques (2) = 18 lbs. ft. +/-2 lbs. ft.
- Primary chain tensioner adjuster torque = 45 lbs. ft. +/- 5 lbs. ft.
- Primary drain plug torque = 8 lbs. ft. +/- 1 lbs. ft.
- Clutch cover fastener torques (5) = 105 lbs. in. +/- 10 lbs. in.
- Outer primary cover fastener torques (15) = 105 lbs. in. +/- 10 lbs. in.
- Oil tank drain plug torque = 8 lbs. ft. +/- 1 lbs. ft.
- Oil tank mounting fastener torques (4) = 105 lbs. in +/- 10 lbs. in.
- Clutch line banjo bolt torques (2) = 15 lbs. ft. +/- 2 lbs. ft.

Station 3:

- Driven sprocket mounting fastener torques (5) = 65 lbs. ft. +/- 5 lbs. ft.
- Rear brake rotor mounting torques (5) = 32 lbs. ft. +/- 2 lbs. ft.
- Rear wheel axel nut torque = 55 lbs. ft. +/- 5 lbs. ft.
- Rear brake caliper fastener torques (2) = 40 lbs. ft. +/- 4 lbs. ft.
- Rear brake line banjo bolt torques (2) = 15 lbs. ft. +/- 2 lbs. ft.
- Steering head adjuster nut torque = 30 lbs. ft. +/-3 lbs. ft. then back 180 degrees and return to 15 lbs. ft. +/-1.5 lbs. ft.
- Upper triple clamp crown nut torque = 29 lbs. ft. +/-3 lbs. ft.
- Fork leg cover fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Fork leg cap bolt torque (2) = 18 lbs. ft. +/- 2 lbs. ft.
- Bottom triple clamp pinch bolt torques (2) = 65 lbs. ft. +/- 5 lbs. ft.
- Front steering head ground wire screw torque = 30 lbs. in. +/-3 lbs. in.
- Dual disc brake line under steering head mount torque = 15 lbs. ft. +/-2 lbs. ft.
- Front brake rotor mounting fastener torques (5) = 18 lbs. ft. +/- 2 lbs. ft.
- Front wheel axel nut torque = 55 lbs. ft. +/- 5 lbs. ft.
- Front wheel axel pinch bolt torque = 20 lbs. ft. +/- 2 lbs. ft.
- Front brake master cylinder fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Clutch master cylinder fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Handel bar spacers (“Chrome Dome”) set screw torque = 25 lbs. in. +/-3 lbs. in.
- Left hand grip set screw torque = 25 lbs. in. +/-3 lbs. in.
- Handel bar riser nut torques (2) = 75 lbs. ft. +/- 7 lbs. ft.

Station 3: (Cont.)

- Handel bar clamp fastener torques (4) = 18 lbs. ft. +/- 2 lbs. ft.
- Coil mounting fastener torque = 105 lbs. in. +/- 10 lbs. in.
- Coil cover fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Horn bracket torque = 105 lbs. in. +/- 10 lbs. ft.

Station 4:

- Voltage regulator mounting bolt torque (2) = 105 lbs. in. +/- 10 lbs. in.
- Throttle cable nut torque at switch cube = 85 lbs. in. +/- 8 lbs. in.
- Throttle cable lock plate fastener torque at switch cube = 25 lbs. in. +/- 2 lbs. in.
- Throttle cable hex bar adjuster (2) = 50 lbs. in. +/- 5 lbs. in.
- Throttle cable jam nut at throttle body (2) = 50 lbs. in. +/- 5 lbs. in.
- Air box velocity stack bolt torque (4) = 50 lbs. in. +/- 5 lbs. in.
- Air temperature sensor torque = 10 lbs. ft. +/- 1 lbs. ft.
- Air box base fastener torques (3) = 25 lbs. ft. +/- 3 lbs. ft.
- Air box cover fastener torques (2) = 10 lbs. ft. +/- 1 lbs. ft.
- Head light housing fastener torques (4) = 18 lbs. ft. +/- 2 lbs. ft.
- Head light housing rear fastener torques (2) = 25 lbs. in. +/- 3 lbs. in.
- Spot light tie bar fastener torque (2) = 18 lbs. ft. +/- 2 lbs. ft.
- Spot light nut torques = 15 lbs. ft. +/- 2 lbs. ft.
- Front turn signal fastener torques (4) = 25 lbs. in. +/- 3 lbs. in.
- ECU bracket fastener torques (2) = 50 lbs. in. +/- 5 lbs. in.
- ECU clip fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Headlight adjuster fastener torques (2) =

Station 4: (Cont.)

- Headlight trim ring torque = 15 lbs. in. +/- 2 lbs. in.

Station 5:

- Indian head front mounting screw torque = 10 lbs. in. +/- 1 lbs. in.
- Indian head rear mounting screw torque = 25 lbs. in. +/- 3 lbs. in.
- Front fender fastener torques (4) = 18 lbs. ft. +/- 2 lbs. ft.
- Front brake caliper fastener torques (2) = 40 lbs. ft. +/- 4 lbs. ft.
- Front brake line banjo bolt torques (2) = 15 lbs. ft. +/- 2 lbs. ft.
- Handel bar riser cover fastener torques (2) = 85 lbs. in. +/- 9 lbs. in.
- Tail light fastener torques (3) = 80 lbs. in. +/- 10 lbs in.
- License plate bracket fastener torques (3) = 105 lbs. in. +/- 10 lbs. in.
- License plate light fastener torques (2) = 25 lbs. in. +/- 2 lbs. in.
- License plate reflector ring fastener torques (4) = 85 lbs. in. +/- 8 lbs. in.
- Rear fender fastener torques (4) 105 lbs. in. +/- 10 lbs. in.
- Rear fender eyebrow fastener torques (8) = 25 lbs. ft. +/- 2 lbs. ft.
- Left foot control bracket fastener (3) = 30 lbs. ft. +/- 3 lbs. ft.
- Shift rod at transmission fastener torque = 15 lbs. ft. +/- 2 lbs. in.
- Shift rod at foot control fastener torque = 15 lbs. ft. +/- 2 lbs. in.
- Shifter heel/toe pegs torque = 105 lbs. in. +/-11 lbs. in.
- Left floor board fastener torques (2) = 50 lbs. in. +/- 5 lbs. in.
- Rear brake master cylinder fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Rear brake reservoir bracket/cover fastener torques (4) = 20 lbs. in +/- 5 lbs. in.
- Right foot control mount block fastener torques (2) = 30 lbs. ft. +/- 3 lbs. ft.

Station 5: (Cont.)

- Right foot control bracket fastener torques (2) = 30 lbs. ft. +/- 3 lbs. ft.
- Right floor board fastener torques (2) = 50 lbs. in. +/- 5 lbs. in.
- Rear brake toe peg torque = 105 lbs. in. +/-11 lbs. in.

Station 6:

- Transmission drain plug torque = 15 lbs. ft. +/- 1.5 lbs. ft.
- Transmission dip stick torque = 50 lbs. in. +/-25 lbs. in.
- Primary access plate fastener torques (4) = 105 lbs. in. +/- 10 lbs. in.
- Brake caliper bleeder nipple (3) = 32 lbs. in. +/-5 lbs. in.
- Brake master cylinder cover fastener torque (2) = 10 lbs. in. +/-2 lbs. in.
- Clutch master cylinder cover fastener torque (2) = 10 lbs. in. +/-2 lbs. in.
- Oxygen sensor torques (2) = 30 lbs. ft. +/- 3.5 lbs. ft.
- Exhaust bracket to muffler fastener torques (2) = 18 lbs. ft. +/- 2 lbs. ft.
- Exhaust tip fastener torques (2) = 105 lbs. in. +/- 10 lbs. in.
- Exhaust to cylinder head fastener torques (4) = 18 lbs. ft. +/- 2 lbs. ft.
- Exhaust clamp torques (2) = 40 lbs. ft. +/- 4 lbs. ft.
- Exhaust bracket to frame fastener torques (2) = 25 lbs. ft. +/- 3 lbs. ft.
- Frame to exhaust head pipe bracket fastener torques (2) = 18 lbs. ft. +/-2 lbs. ft.
- Exhaust heat shields torque (8) = 45 lbs. in. +/-5.0 lbs. in.
- Side stand bolt torque = 25 lbs. ft. +/- 3 lbs. ft.
- Cam drive cover emblem plate fastener torques (2) = 45 lbs. in. +/- 5 lbs. in.
- Rear brake control free play adjuster nut torque = 10 lbs. ft. +/- 1 lbs. ft.

Station 6: (Cont.)

- Fuel tank plug torques (3) = 18 lbs. ft. +/- 2 lbs. ft.
- Fuel tank petcock torque = 18 lbs. ft. +/- 2 lbs. ft.
- Fuel tank gas cap paint protector torque = 20 lbs. ft. +/-2 lbs. ft.
- Fuel tank access plate fastener torques (10) = 15 lbs. in. +/- 1 lbs. in.
Process torque pattern twice.
- Fuel tank rear mount torque = 18 lbs. ft. +/- 2 lbs. ft.
- Caliper cover torque = 5.0 lbs. ft. +/-1 lbs. ft. to seat, 10.0 lbs. ft. +/-1.0 final.

Station 7:

- Battery terminal torque (2) = 75 lbs. in. +/-5.0 lbs. in.
- Battery tender leads torque (2) = 45 lbs. in +/- 5.0 lbs. in.
- Fuel tank ground wire screw torque = 45 lbs. in. +/-5.0 lbs. in.
- Speedometer mounting fastener torques (2) = 25 lbs. in. +/- 2 lbs. in.
- Ignition switch fastener torques (2) = 25 lbs. in. +/- 2 lbs. in.
- Center dashboard fastener torque = 45 lbs. in. +/- 5 lbs. in.
- Rear dashboard fastener torque = 105 lbs. in. +/- 10 lbs. in.
- Two up rear seat mounting torque = 12 lbs. in. +/-2 lbs. in.
- Seat forward mounting bolt torque (2) = 85 lbs. in +/- 10 lbs. in.
- Saddle bag fasteners (4) = 60 lbs. in. +/-5.0 lbs. in.
- Seat grab rail to frame (2) = 15 lbs. ft. +/-2 lbs. ft.
- Seat grab rail to seat underside (2) = 85 lbs. in. +/-10 lbs. in.
- Saddlebag bar to frame (3) = 15 lbs. ft. +/-2.0 lbs. ft.
- Saddlebag bar to exhaust bracket = 25 lbs. ft. +/-3.0 lbs. ft.

Station 7: (Cont.)

- Upper highway bar mount (2) = 18 lbs. ft. +/-2.0 lbs. ft.
- Lower highway bar mount (2) = 30 lbs. ft. +/-3.0 lbs. ft.