

# Operations Manual for the BJ Series Genco

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**Genco Mine Service  
630 North 400 East  
Huntington, Utah 84528  
Phone 1-800-662-1257      fax 1-435-687-9256**

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## **Genco Pickup Operators Manual 2007**

**This manual should remain with the vehicle.**

**All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of printing. Please add updates as they become available.**

**The information contained in this manual is offered by way of suggestion only. Genco Mine Service nor any manufacture used in the Genco Truck shall be held liable for the information herein. Please refer to the engine manufacture for service.**

**This vehicle is an “Off Road” vehicle only and as such is not D.O.T. approved nor can it be licensed for highway use.**

**As with any motorized vehicle, common sense and safety should be used at all times. Any modification to your vehicle could affect its performance, safety, or durability.**

## Visual Inspection

Always visually check the following before starting the truck:

Walk around the truck, removing any wheel chocks and checking for obstructions.

Check wheels and tires for proper air pressure and loose or missing lug nuts.

Grab top of tire and rock back and forth to check for loose or bad wheel bearings and worn tie rod ends.

Check for body damage or damage to doors and windows that might impair the driver or jeopardize the passengers.

Check exterior lights.

Prop the hood and check the following:

Engine oil level

Master brake and clutch reservoirs

Power steering reservoir

Heat exchanger hoses

Check the heat exchanger for any damage or blockage. The engine oil is pumped through the heat exchanger and it is critical that the engine compartment be clean and free from debris.

## Starting the Engine

Turn on the Master Battery Disconnect Switch, located on the upper passenger side of the grille.



Check all lights and turn signals.

Always buckle your seat belt before starting the engine.

4. Before starting engine, set the emergency brake and place the gear shifter in neutral. Glow plug the engine by turning the start switch to the left for 15 seconds.



Depress clutch and crank engine until engine starts. *Do not crank engine for more than 20 seconds.* If engine fails to start, Glow Plug the engine and crank engine again. If the engine does not start after several attempts, please refer to Deutz BF4M1011F or the B3.3 Cummins engine Operation Manual.

After engine starts, check the following:



Oil Pressure gauge show oil pressure  
 Volt Meter shows more than 12 Volts  
 Air Filter Indicator Gauge.

Release emergency brake and place shifter in 1<sup>st</sup> gear.

This is a governed engine so you must use the gearing to negotiate grades, and not engine RPM.

The electrical system is very simple on the Genco. All circuits run through manual reset thermal circuit breakers. Simply check the dash panels for <sup>11</sup> any tripped circuit breaker, and push in to reset. If the circuit breaker will not reset, check for a short in that circuit. The dash panels hinge down for easy access and all wires are color coded for easy identification. If no short is found, replace the circuit breaker.

In some rare instances, extreme cold temperatures will prematurely trip a circuit breaker. Avoid sub zero temperatures if possible.

## Shifting the Transfer Case

Transfer Case Shift from High to Low

Transmission needs to be in first or reverse. With engine running, slowly disengage clutch until a load is felt, but truck need not move. Firmly Grip the transfer case shift lever and shift the transfer case lever from High to Low.

## Parking the Truck

When parking the truck, please do the following:

- Turn the start switch to the off position.
- Place the shifter in first gear.
- Set the park brake.
- Turn of the Master Battery Disconnect Switch.
- Chock Wheels.

## Park Brake Test

**Manual Park Brake:**

This is an updated test, these procedures supersedes all other procedures. **CAUTION:** *The Genco Park Brake is designed as a supplementary brake holding system while the truck is parked.. It is not designed as an independent braking system providing braking while the truck is moving. Deploying the Park Brake while moving may cause premature wear to the rotor and or caliper, and may also result in damage to the transfer case.*

1. Set the Park Brake by pulling up on the Park Brake Handle located to the right of the drivers seat.
2. With the transmission in second gear, depress the clutch and start the engine.
3. While the engine is idling, slowly release the clutch. The truck should remain stationary. If the Park Brake does not hold, adjust cable or replace parts as needed.

**Hydraulic Park Brake:**

1. Set the Park Brake by pumping the brake pedal several times and while holding the pedal down, close the Mico Lever Lock Handle, trapping fluid to the front brakes.
2. With the transmission in second gear, depress the clutch and while the engine is idling, slow release the clutch. The truck should remain stationary. If the Park Brake does not hold, check front calipers, master cylinder, or leaking brake lines.

# Routine Maintenance

## Running Gear Monthly

### Differentials

Change Fluid in front and rear differential Monthly  
Use 80-90w GL Hypoid Gear Lubricant

### Front Hubs

Pack bearings  
Wheel Bearing Grease

### Drive Lines

Grease U-Joints  
Check for worn or broken u-joints

### Transmission & Transfer Case

Change Fluid Levels  
Use 80 90w GL Hypoid Gear Lubricant

## Lube Chassis

Grease upper and lower ball joints

## Disc Brakes & Park Brake

DOT 3 Brake Fluid

## Engine (*Refer to BF4M1011 Deutz or B3.3 Cummins Operation Manual*)

Engine Oil 15w-40 Diesel Spec  
Change Oil every 125 hours