

396-4792Y1

Honda iGX390 AutoChoke Gas Engine 3" Cast Iron Centrifugal Transfer Pump



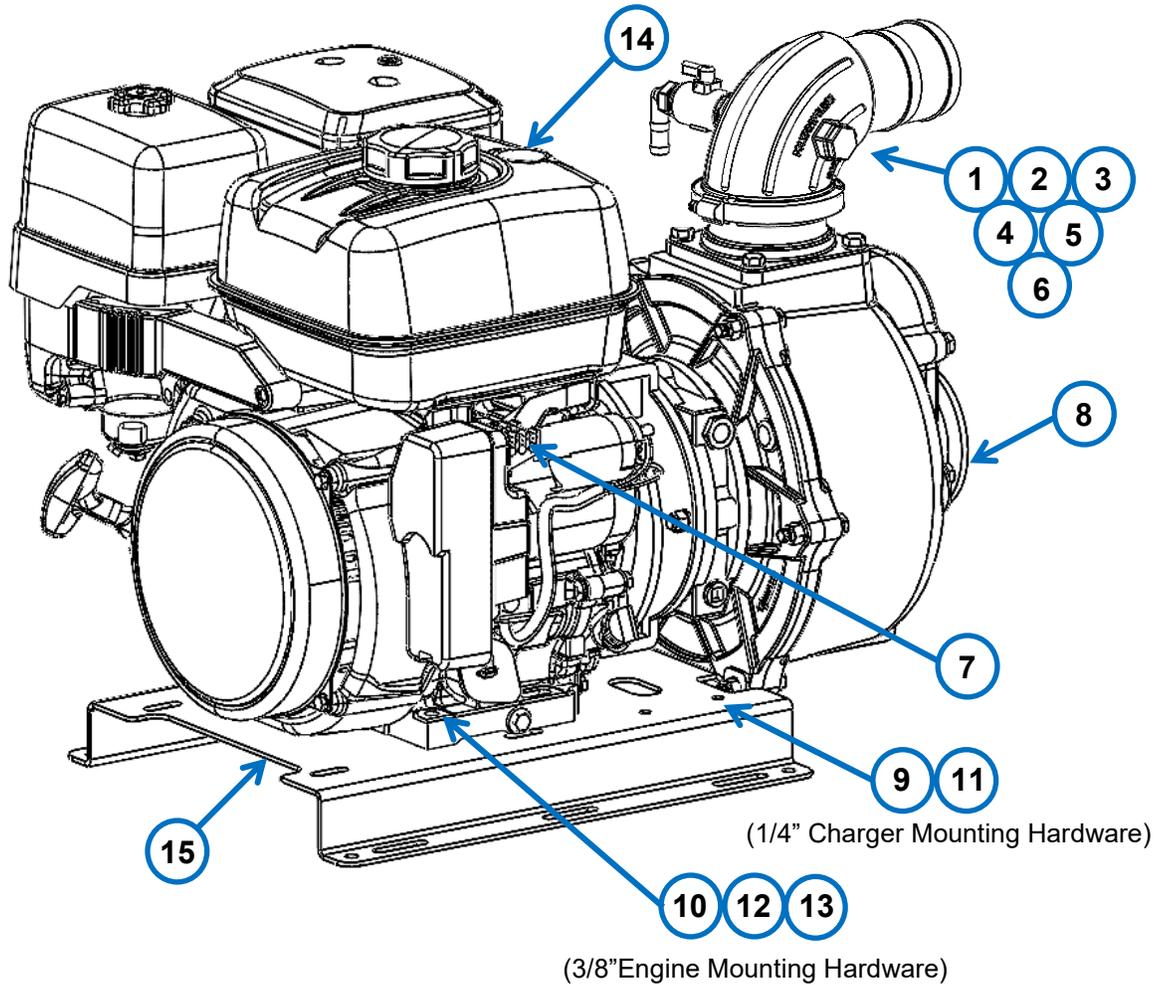
Fill the engine with oil prior to operation!

Read this manual and the operation and maintenance manual for the Honda engine and John Blue pump in their entirety prior to operation. Failure to follow warnings and instructions may result in serious personal injury or death.



290-05-4788Y1

John Blue 3" Cast Iron Transfer Pump, Honda iGX390 AutoChoke Engine Parts and Dimensions



Item No.	Part Number	Description	Qty
1	100-050PLUG	1/2" Pipe Plug	1
2	101-050050-90	1/2" MPT x 1/2" HB - 90 Degree	1
3	102-050050LVMTV	1/2" MPT x 1/2" FPT Micro Valve	1
4	105-300BRBSWPG90	3" Manifold x 3" HB - 90 Degree Sweep with 1/2" Tap	1
5	105-300G	3" EPDM Manifold Gasket	1
6	105-FC300	3" Manifold Clamp	1
7	208-05-4783Y1	QuickDraw Honda Engine Control Final Harness	1
8	290-05-SP-3350-BS-FLG	John Blue, 3" Cast Iron Self-Priming Transfer Pump (Pump Only)	1
9	300-040100-5	1/4" x 1" Hex Head Bolt - G5	2
10	300-060200-5	3/8" x 2" Hex Head Bolt - G5	4
11	321-04	1/4" Nylock Nut	2
12	321-06	3/8" Nylock Nut	4
13	330-06	3/8" Flat Washer	8
14	364-GX390UT2QZN2	Honda iGX390 AutoChoke Engine - High/Low RPM Selection, 10A Charge	1
15	400-4785Y1-RV	John Blue - iGX390 Pump Mounting Base Plate	1
16	291-05-122319MOB	1 Quart Mobil Super 10W30 For Transfer Pumps	1

Honda iGX390 AutoChoke Gas Engine



Honda iGX390 Specifications

Engine Type: Air-Cooled 4-Stroke OHV

Displacement: 389 cm³

Net Torque: 19.5 ft-lb @ 2,500 RPM

PTO Shaft Rotation: Counterclockwise

Charge Coil: 10A

Oil Capacity: 1.16 US qt

Fuel Tank Capacity: 6.4 US qts

Dry Weight: 82 lb

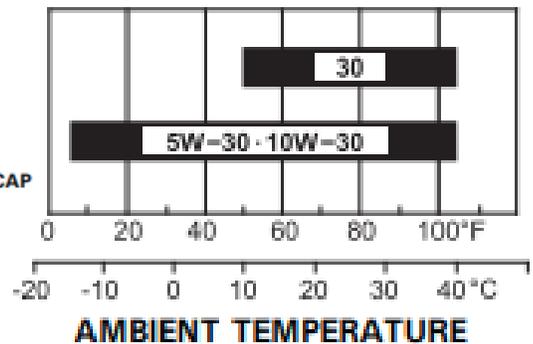
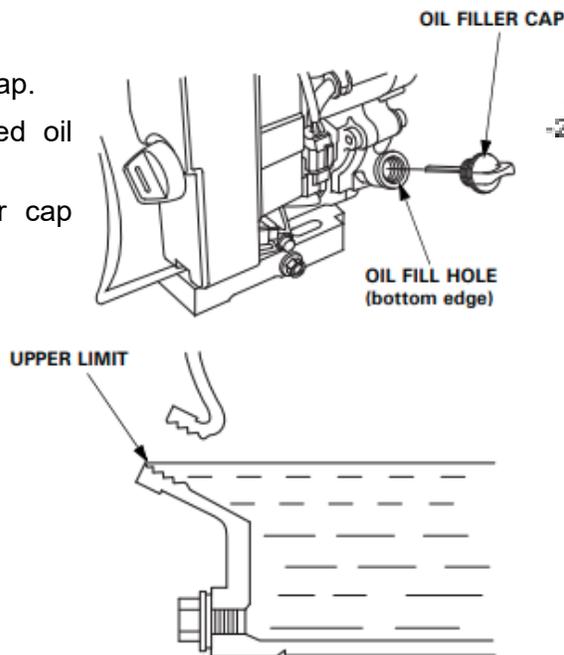
Dimensions: 16" x 19.1" x 17.7" H

Engine Oil - FILL PRIOR TO OPERATION

Use the provided oil to fill the engine prior to operation, or use the recommended oil by the manufacturer. SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

To fill the Engine:

1. Remove the oil filler cap.
2. Fill with recommended oil to the upper limit.
3. Reinstall the oil filler cap securely.

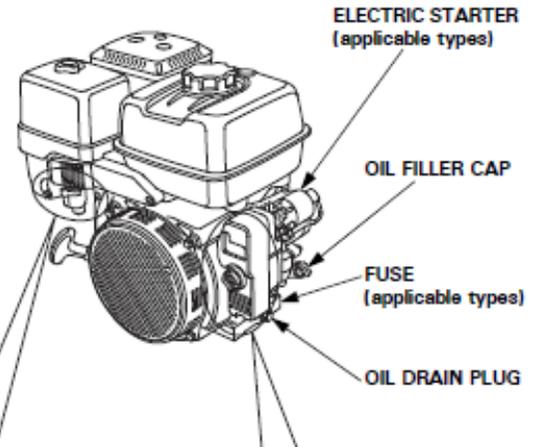
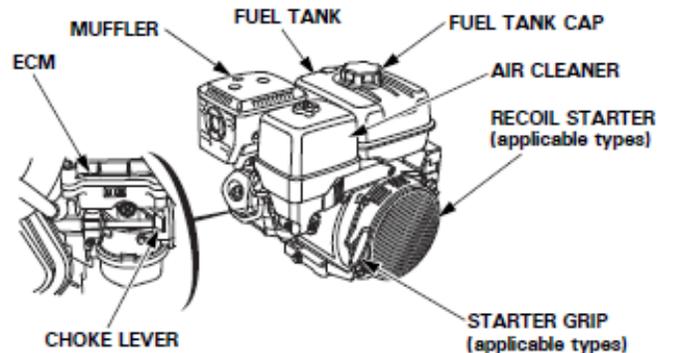


DO NOT USE E85 ALTERNATIVE FUEL IN YOUR HONDA ENGINE!!

Always refer to your Honda owner's manual for a list of recommended fuel and the current approved additives.



Honda iGX390 Parts & Operation

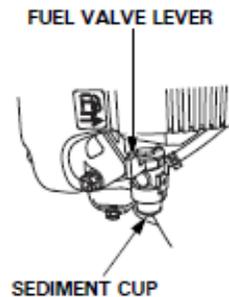
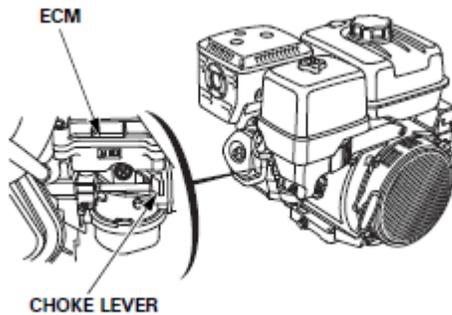


AUTO CHOKE AND THROTTLE CONTROL SYSTEM

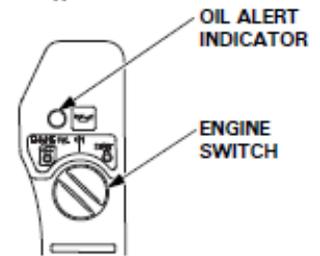
The ECM of this engine controls the choke valve and throttle valve automatically.

When starting and warming up the engine, you do not need to operate the choke lever unless the engine is hard to start using the normal starting procedure.

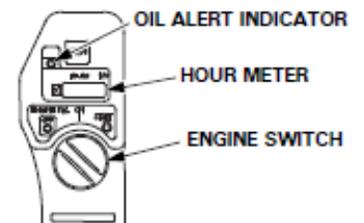
STANDARD TYPES



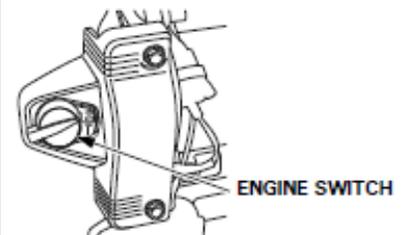
CONTROL BOX (ELECTRIC STARTER TYPES) (Indicator type)



(Hour meter type)



CONTROL BOX (RECOIL STARTER TYPES)



Operation and Maintenance

Refer to your Honda owner's manual for safety information, operation and maintenance of your engine and technical information.



SCAN ME

John Blue SP3350-FLG 3" Centrifugal Transfer Pump



SP3350 Pump Specifications

Max Flow: 400 GPM

Max Pressure: 64 PSI

Flow @ 25 PSI: 365 GPM

Max Speed: 3,600 RPM

Plumbing Size: 3" Manifold Flange Connection

Housing: Cast Iron Self Prime

Maintenance

- Inspect the seal reservoir fluid level using the sight window - it should be above the middle of the window.
- If dirty, replace the fluid by draining and replacing with a 50/50 mixture of ethylene glycol antifreeze and water. The recommended service interval for this fluid is 100 hours.
- If the fluid in the seal reservoir becomes cloudy or loses fluid after use, the impeller side seal is leaking and should be replaced.
- Inspect the pump frequently for any leaks form the housing gaskets or shaft seal.

Storage & Winterization

****IMPORTANT - KEEP AIR OUT OF THE PUMP AND KEEP IT FROM FREEZING****

- Keep air out of the pump! This is the only way to prevent corrosion. Even for short periods of storage, the entrance of air into the pump causes rapid and severe corrosion. Freezing temperatures can cause the fluid or water to freeze internally to the pump, which can cause severe damage to castings.

To prevent excessive corrosion of the pump's cast iron components:

- Flush pump thoroughly with 5 to 10 gallons of a solution that will neutralize the liquid last pumped (refer to chemical manufacturer instructions). Fill the pump with clean water and **DO NOT DRAIN**. Keep pump sealed to exclude air by placing plugs in the suction and discharge lines to keep pump full. For long-term storage (more than 2 weeks), use straight RV-antifreeze (which has a corrosion inhibitor) to fill the pump after flushing.

To protect pump from freezing:

- Flush pump per instructions above and **IMMEDIATELY** fill pump with straight RV-Antifreeze. Place plugs in suction and discharge lines to keep pump full and exclude air.

For full Parts and Instruction Manual, scan the QR Code to the right.



SCAN ME

Pre-Installed Wiring Harness Diagram

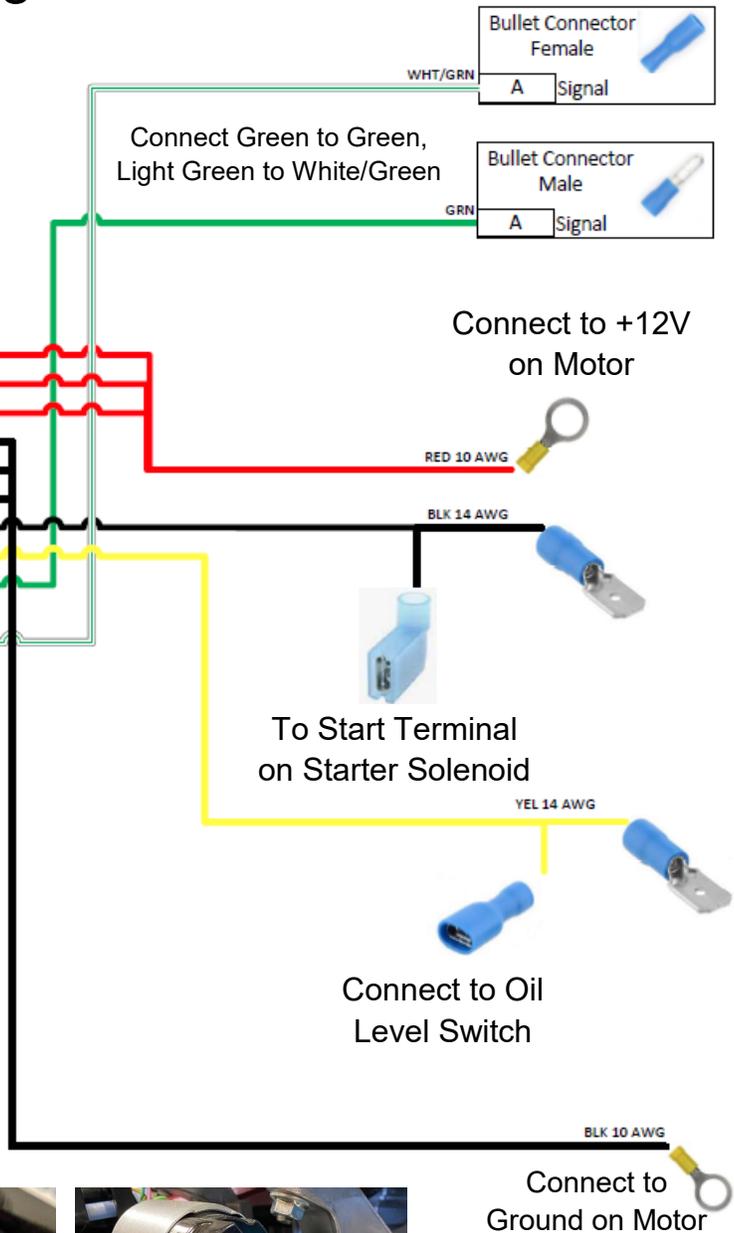
208-05-4783Y2

QuickDraw Honda Engine Control Final Harness

12-Pin Connector for SurePoint/
QuickDraw Harness options

Deutsch 12-pin DT06-12S	
+12V DC	1 RED 14 AWG
+12V DC	2 RED 14 AWG
+12V DC	3 RED 14 AWG
GND	4 BLK 14 AWG
GND	5 BLK 14 AWG
GND	6 BLK 14 AWG
Start	7 BLK 14 AWG
Stop	8 YEL 14 AWG
Speed	9 GRN
Output	10 WHT/GRN
Common	11
Empty	12

12-Pin Connector for Control Box or
SurePoint QuickDraw Control Harness



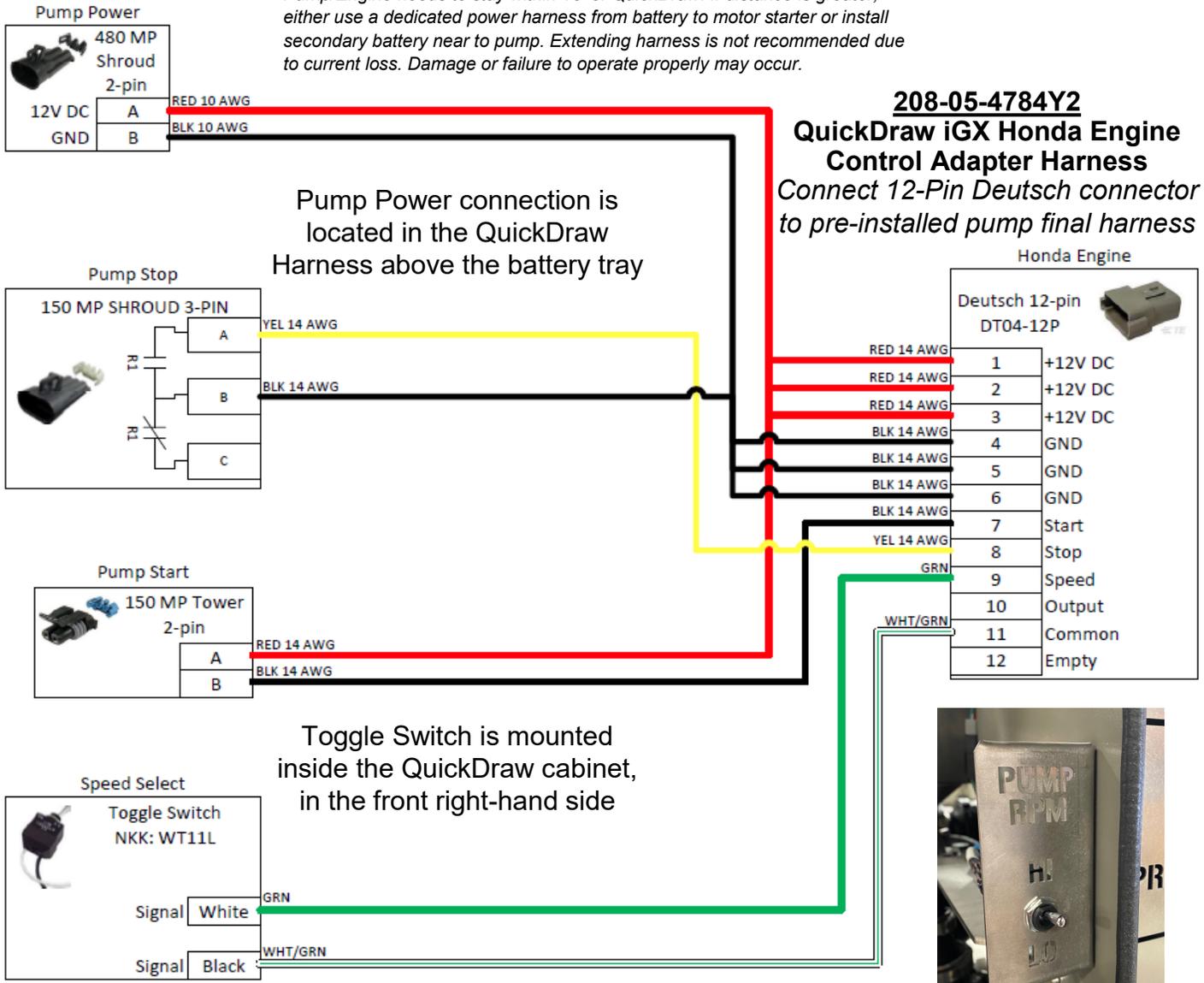
Speed Select Connections:
Green - Green
White/Green - Light Green



606-03-500100

Honda iGX390 AutoChoke Motor with QuickDraw Harnessing

Pump/Engine needs to stay within 15' of QuickDraw. If distance is greater, either use a dedicated power harness from battery to motor starter or install secondary battery near to pump. Extending harness is not recommended due to current loss. Damage or failure to operate properly may occur.



Pump Start Operation (QuickDraw Operation):

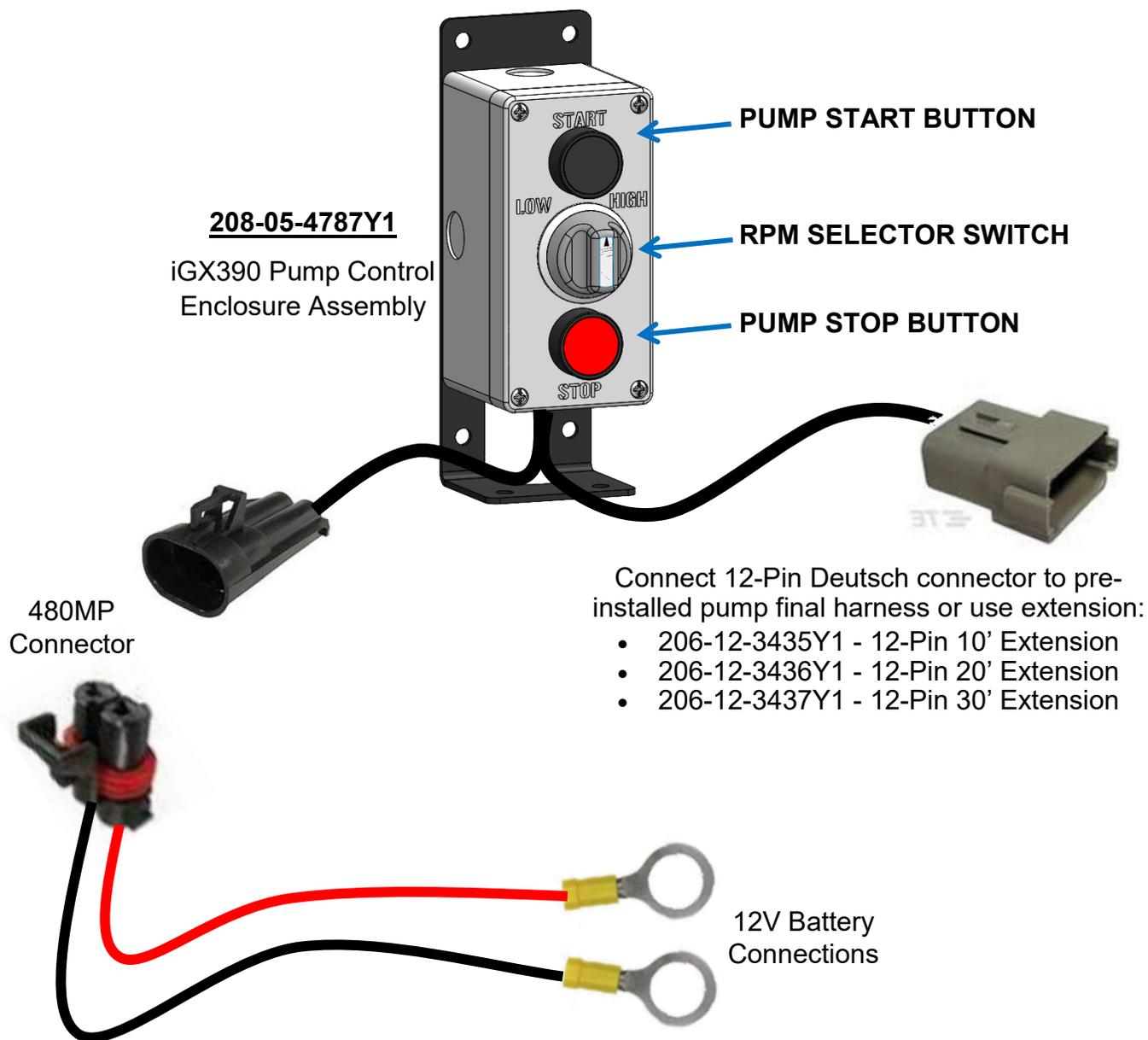
When starting and warming up the engine, you do not need to operate the choke lever unless the engine is hard to start using the normal operating procedure.

1. Check the oil level. If it is below the upper limit, fill with the recommended oil to the upper limit.
2. Move the fuel valve lever to the **ON** position.
3. Turn the engine switch to the **ON** position.
4. The pump will start when the QuickDraw Batch is started., and stop when the batch is completed.
5. Flip the RPM toggle switch for High or Low



606-03-500200

Honda iGX390 AutoChoke Motor with Control Box



Pump Start Operation:

When starting and warming up the engine, you do not need to operate the choke lever unless the engine is hard to start using the normal operating procedure.

1. Check the oil level. If it is below the upper limit, fill with the recommended oil to the upper limit.
2. Move the fuel valve lever to the **ON** position.
3. Turn the engine switch to the **ON** position.
4. Push the PUMP START button. (Top, black button)
5. Rotate the RPM selector switch for High or Low