

Fast Burn 385 TURN KEY ENGINE KIT (12499710) Specifications

Specifications Part Number 88963868

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This "FB 385 Turn Key Kit" 88963868 documentation should be used in conjunction with the "ZZ4/FBB385 Short Block Specifications" 19172279, "FB 385 Engine Specifications" 12486592 and the "Serpentine Belt Accessory Drive Package Specifications" 12490896. This documentation is included within the information packet, as it builds on the FB 385 and Serpentine Belt Accessory Drive Package. Please locate these documents and start there first.

This publication provides general information on components and procedures that may be useful when installing or servicing a FB 385 Turn Key Engine Kit. Please read this entire publication before starting work. Also, please verify that all of the components listed in the Package Contents section below were in fact shipped with the kit.

The information below is divided into the following sections:

- Package contents
- > Torque specifications
- FB 385 Turn key Engine Kit assembly specifications
- Service parts list

The FB 385 Turn key Engine Kit includes additional components to the FB 385 Crate engine assembly which make up the turn key kit. Some key items included are the starter, fuel pump, ignition wires and supports, carburetor, filters and bypass hoses. Specific items and part numbers are listed at the end of these instructions.

It is not the intent of these specifications to replace the comprehensive and detailed service practices explained in the GM service manuals.

Observe all safety precautions and warnings in the service manuals when installing the FB 385 Turn Key Kit in any vehicle. Wear eye protection and appropriate protective clothing. Support the vehicle securely with jack stands when working under or around it. Use only the proper tools. Exercise extreme caution when working with flammable, corrosive, and hazardous liquids and materials. Some procedures require special equipment and skills. If you don't have the appropriate training, expertise, and tools to perform any part of this conversion safely, this work should be done by a professional

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Package Contents:

ltem	Description	Quantity	GM Part Number
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1	Engine, FB 385 Long Block Assembly	1	12496769 (Fast Burn 385)
2	Kit, Serpentine front dress with A/C	1	12497698
3	Pump, Mechanical fuel pump w/gasket	1	6415325
4	Push rod, fuel pump	1	3704817
5	Plate, fuel mounting	1	3719599
6	Gasket, fuel pump plate	1	12560223
7	Bolts, fuel pump	2	88891769
8	Bolts, fuel pump plate	2	9440033
9	Assembly, Air cleaner	1	12342080
10	Valve, PCV	1	6487779
11	Hose, PCV	1	88964766
12	Carburetor, Holley 750 cfm	1	12485506
13	Breather	1	19131218
14	Motor, Starter	1	10465143
15	Bolt, starter (short)	1	14097279
16	Bolt, starter (long)	1	14097278
17	Hose, bypass	1	1485552
18	Fitting, bypass hose	2	6272959
19	Clamp, bypass hose	2	1470030
20	Wires, spark plug	1	12361057
21	Supports, sparkplug wires	1	12496806
22	Plug, 3/8" NPT internal hex	1	14090911
23	Plug, 1/2" NPT internal hex	1	25522466
24	Kit, lift bracket	1	10198918
25	Instruction sheet	1	88963868
26	Bolt lift bracket	2	88963065

FB 385 Turnkey Engine Torque specifications:
*Note: The torque values below are in addition to those documented within the FB 385 Crate Engine and Serpentine Belt Accessory Drive Package instructions.

Fastener	Torque (lb.ft.)	Torque (Nm)	Thread Treatment	Notes
Bolts, Fuel pump plate	9	12.0 + / - 2.0 Light Oil		
Bolts, Fuel pump	30	12.0 + / - 2.0	Light Oil	
Bolts, Carburetor	20	27	None	
Bolts, Starter motor	30	40	Light Oil	
Bolts, Lift bracket	35	47.5	None	
Bolts, Wire support	9	12 + / - 2.0	None	

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NOTE: The following procedures may be performed before, during or after your engine is installed. Your application will help you determine when the procedure should be performed.

Fuel Pump Installation:

Installation is the same as for original equipment cylinder mechanical fuel pumps.

Remove fuel pump block off plate from engine block.

Clean off any residual gasket material from block.

Slide fuel pump pushrod into engine block, and then Install fuel pump mounting plate, gasket and bolts.

Install fuel pump, gasket and bolts. Ensure fuel pump pushrod is in correct contact with the top of the fuel pump lever. Connect fuel supply and return lines to pump.

Carburetor, Breather, PCV and Air cleaner installation

Push supplied breather into grommet on driver side valve cover.

Install carburetor and gasket onto intake manifold, using hardware supplied with carburetor.

Push the PCV valve into passenger side valve cover grommet.

Connect PCV hose between PCV valve and large port on carburetor. Note If vehicle is using vacuum assisted power brakes it may be necessary to find a vacuum source for brake booster.

Install double ended threaded rod into top center of the carburetor, then install air cleaner assembly and gasket.

Secure air cleaner assembly with the wing nut.

Bypass Hose and Plugs

*Note: Before installing bypass hose be sure you have the correct rotation water pump installed on your engine.

The correct water pump is supplied with the Serpentine Belt Accessory Drive Package.

Install 1 bypass hose fitting into intake manifold and one into water pump.

Take the supplied bypass hose and cut to size, to fit between the water pump and intake manifold fittings.

Install bypass hose and secure with supplied hose clamps.

Starter Motor Installation

Bolt starter to engine block using supplied bolts gear end of starter will mesh with flexplate.

Connect wires to starter. (see instructions enclosed in starter box)

Lift Bracket Kit Installation

Install one bracket and bolt onto front of passenger side cylinder head.

Install the other bracket and bolt onto the rear of the drivers side head.

Note: If installing the lift brackets before the spark plug wires and brackets you will have to remove the remove the rear lift bracket when installing the driver side spark plug wire support.

Spark plug wires and support installation

Install spark plug wires from distributor cap to spark plugs. See chart below.

V-8 Small Block 90 º. Boots

Cylinder 1 : 39.0" Cylinder 2 : 41.5" Cylinder 3 : 37.0" Cylinder 4 : 35.5" Cylinder 5 : 32.0" Cylinder 6 : 31.5" Cylinder 8 : 29.0"

Install large support brackets to the back of the cylinder heads. Install small metal support brackets to the sides of the head. Route the spark plug wires into the plastic clips and slide clips onto the metal supports.

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FB 385 Turnkey Engine Specifications:

*Note: The specifications below are in addition to those documented within 385 Crate Engine and Serpentine Belt Accessory Drive Package instructions.

Component	Characteristics
Pump, Fuel	Heavy Duty mechanical fuel pump. This high capacity pump has a removable lower housing that can be rotated to position the inlet and outlet as required by the chassis and plumbing.
Carburetor	Vacuum secondary, automatic electric choke, dual feed center hung fuel bowls. Includes gasket, mounting studs and nuts.
Motor, Starter Lightweight high performance starter originally used on Camaro Z28 LT-1. Can be used on any big or s block Chevy V8 WITH 12 ¾" (153 tooth) flywheel.	
Wires, Spark Plug	Performance spark plug wire set, with GM Performance Parts logo and 90° spark plug boots.

^{**}Information may vary with application. All specifications listed are based on the latest production information available at the time of printing.

FB 385 Turnkey Engine Service Parts List - See Package Contents

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