Highly Styled, Low Cost Serpentine Drive

Installation Instructions

Buick 430/455ci

Kit #17000 (with Remote Power Steering) and #17010 (without Power Steering)
## Included Parts List

### Main Front Bracket  P/N 17001
1 - 17001-A............ Main Front Bracket
1 - 17001-B............ Left Rear Support
1 - 17001-C............ Right Rear Support
2 - 740-A............. Idler Pulley Body
2 - 302-A............. Idler Cap
6 - S022........ 8\(\frac{1}{32}\) x 3\(\frac{1}{8}\)" Lg SHCS
4 - S172........ 3\(\frac{1}{8}\)" x 5"SHCS
4 - S248........ 3\(\frac{1}{8}\)" x 1"Lg SHCS
1 - S321........ 3\(\frac{1}{8}\)" x 1\(\frac{3}{4}\)"Lg Hex Hd Bolt
1 - S551........ 8M x 25mm SHCS
2 - S553........ 8M x 35mm SHCS
2 - S666........ 3\(\frac{1}{8}\)" Id Flat Washer
2 - MM100........ Bolt Bushing
4 - TP5-.600........ .600" Lg Tube Spacer

### Power Steering Bracket  P/N 17004
IN KIT # 17000 ONLY
1 - 17004-A............ Power Steering Bracket Body
1 - 740-A............ Idler Pulley Body
1 - 302-A............ Idler Pulley Cap
3 - S022........ 8\(\frac{1}{32}\) x 3\(\frac{1}{8}\)" Lg SHCS
1 - S321........ 8\(\frac{1}{32}\)" x 1\(\frac{3}{4}\)"Lg Hex Hd Bolt
3 - S551........ 8M x 25mm SHCS
1 - S666........ 3\(\frac{1}{8}\)" Id Flat Hex Bolt
1 - TP3-.150........ .150" Lg Tube Washer

### Pulley Kit  P/N 12020-208
1 - 12021-A............ Crank Shaft Pulley
1 - 12022-A............ Water Pump Pulley
1 - 208-A............ Alternator Pulley
1 - 221-A............ Alternator Fan
1 - 307-A............ Alternator Cap
1 - 313-A............ Water Pump Pulley Cap
1 - 394-A............ AC Cap
3 - S028........ 8\(\frac{1}{32}\) x 1"Lg SHCS
6 - S144........ 5\(\frac{1}{16}\)" x 7\(\frac{1}{8}\)" Lg SHCS
4 - S186........ 5\(\frac{1}{16}\)" -24 x 7\(\frac{1}{8}\)" Lg Fine Thd SHCS
3 - S520........ 6M x 20mm Button Hd Bolt
1 - S685........ 1\(\frac{1}{16}\)" Lock Washer
1 - 650-A............ Power Steering Pulley
IN KIT # 17000 ONLY
3 - S144........ 5\(\frac{1}{16}\)" x 7\(\frac{1}{8}\)" Lg SHCS

### Accessories
1 - P190............ Aluminum Water Pump
1 - P412............ AC Compressor Chrome
1 - P572............ Alternator 105 Amp Chrome
1 - P313 ............ Power Steering Pump With .600" Hub
IN KIT # 17000 ONLY

## Required Tools and Materials

- RTV Silicone
- Loc-Tite® Thread Locker
- Anti-seize Compound
- Gasket Scraper, Steel Wool or Sandpaper to clean gasket surfaces
- 3\(\frac{1}{8}\)" Allen Head Driver
- 3\(\frac{1}{16}\)" Allen Head Driver
- 1\(\frac{1}{4}\)" Allen Head Driver
- 6mm Allen Head Driver
- 5\(\frac{1}{8}\)" Combo Wrench
- 3\(\frac{1}{16}\)" Combo Wrench
- 1\(\frac{1}{16}\)" Combo Wrench
- 3\(\frac{1}{4}\)" Combo Wrench
- Socket Wrench & Extension
- 10mm 12pt. socket
- 12mm 12pt. socket

Serpentine Belt
73" for Kits Without Power Steering
81\(\frac{1}{2}\)" for Kits With Power Steering
**Preparing to Install**

- Disconnect the battery to prevent accidental engagement of starter motor.
- Drain coolant from system
- If your A/C is intact and charged it must be evacuated. This is best done by a professional garage with proper recycling equipment
- Remove the existing alternator, air conditioning compressor and associated brackets.

**Installing the Kit**

1. Remove all pulleys and water pump.
2. Remove all traces of old gasket and sealer with gasket scraper and steel wool pad.
3. Clean threads in block by chasing with appropriate thread chasers.

Photo 1 Ensure the sealing face of the coolant outlets are clean, flat and free of old gasket material. Install the Buick Water Pump (P190)

Photo 2 Mount the Left Spacer Bracket (17001-B) (Alternator Side) and The Right Spacer Bracket (17001-C) (A/C Side) to the Water PumpUsing (4) 5/16 x 5” SHCS (S172) and between the Water Pump and The Spacers use (4) TP5-.600 Tube Spacers As shown.

Photo 3 Install the Front Main Plate (17001-A) to the rear supports using (4) 3/8 x 1” SHCS (S248) through the main plate and into the left and right spacer brackets.

Photo 4 Mount the two (740-A) Idler Pulleys To the Main Bracket using (2) 5/8 x 1 3/4” Hex Bolts (S321) and (2) 3/8 Washers (S666)
Photo 5  Mount the Alt. rear support (30412-A) to the engine block using One 3/8 x 1” Hex bolt (S312) and a 3/8” Washer (S666). Install the 5/8” Threaded Bushing to the end of the tube (S453), leave loose at this time.

Photo 7  Secure the A/C Rear support (30413-A) to the engine block using a 3/8 x 2 1/4” hex bolt (S324) and a 3/8” Washer (S666). Place a 1.450 long Tube Spacer (TP3.1450) between the A/C Rear Bracket and the head. Leave loose at this time.

Photo 6  Installing the Alternator (P572). In the lower Alternator mounting hole slide one 3/8 x 4 1/4” SHCS (S275) through the Main Plate and the lower Alternator mount into the Rear Alternator support bracket (30412-A). Make sure the Threaded Bushing (S453) is adjusted tight to the rear of the alternator ear. In the upper Slotted Hole use a M8 x 35 mm SHCS (S553) and a MM100 Counter bored bushing. Leave loose at this time.

Photo 8  Installing The A/C unit (P412). In the upper slot use a M8 x 35mm SHCS (S553) and a MM100 Bushing. In the Lower Front hole thru the main plate use a M8 x 25mm SHCS (S551)

Photo 8a  Tie the Rear A/C ear to the (30413-A) bracket with a 5/16 x 1 1/4” SHCS (S148) as Shown. Leave loose at this time.

Place the compressor clutch cover (394-A) onto the compressor clutch and align. Thread the three (3) 6M - 1.0 x 20mm Button Head Bolts (S520), through the cover and into the clutch and tighten. Caution – Do not overtighten!
**FOR KITS 17010, WITH POWER STEERING**

**Photo 9** Mount the Power Steering pump (P313) to the power steering Bracket (17004-A) Using (3) M8 x 25mm SHCS (S551).

**Photo 11** Install the Crank Pulley (12021-A) using (6) 5/16 x 7/8” SHCS (S144). Use Loc-Tite
Apply Loc-Tite to the threads of the four (S186) 5/16” x 7/8” SHCS. Place the water pump pulley (12022-A) to the water pump and thread the cap screws through pulley and pulley cover (313-A) and into water pump pulley flange, tighten to (28 ft/lbs.)

**Photo 10** Mount the Power Steering Bracket, and Pump assembly to the Main Front Bracket using (2) 3/8 x ” SHCS (S248). Install the power Steering pulley (If you have this Option) (650-A) using (3) 5/16 x 7/8” SHCS.
Mount the Idler (740-A) using a 3/8 x 1 3/4” Hex Bolt (S321) and a 3/8” Washer (S666), use a .150 Spacer between the bracket and the idler.

**Photo 12** Install alternator fan (221-A) and pulley (208-A) and using a 1 1/16” lock washer (S685) tighten pulley nut (impact to 90 ft, pounds). Install Alt Cap (307-A) with (3) 5/32” x 1” SHCS (S028).
Install the (3) Idler Caps (302-A)with the provided 5/32” SHCS (S022).
Photo 13: Push the Alternator and A/C units in toward the W/P and mount the drive belt as shown.

81\(\frac{1}{2}\)” belt for kits with power steering. Non power steering kits will bypass the P/S pulley with a shorter 73” belt.

Photo 14: Slip the supplied March Adjustment tool over the (2) (MM100) bushings and use a wrench to turn the adjustment tool outward to tighten the serpentine belt to 100ft. lbs. Use the holes in the adjustment tool to tighten both M8 socket head cap screws when correct belt tension has been achieved. Remove the adjustment tool and keep for future use.

Check and tighten all bracket bolts and alternator and A/C lower mounting bolts, turn engine over once by hand to check for any belt rubbing and proper belt alignment. Run engine three minutes and check belt tension again.

Final Assembly

If you are going to be installing your air conditioning hoses and charging the system at this time, remove the cover plate on top of the compressor body. Install the (P417) A/C adapter lines, hoses and connect clutch wire and charge system.

Important: If you are NOT installing hoses and charging the system at this time, leave cover plate on compressor. Do not connect the clutch wire or apply power to clutch wire without the hoses connected and the system charged – Serious damage will occur to compressor.
LEARNED PERFORMANCE
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2. To avail yourself of this Limited Warranty, return the Product with a copy of the paid receipt, postage paid to:
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LIMITED WARRANTY WARRANTY/RETURNS FORM

No product mounted is considered for credit unless it is a manufacturer defect.

All products returned for any reason must reference an authorization number (RGA). The RGA number is obtained by calling place of purchase during normal business hours. Any product returned without the RGA# written on the return package next to the return shipping label will be refused.

All returns must ship via UPS and be properly packaged in the original carton. Return freight charges are the responsibility of the customer unless the product was shipped in error.

March product returned after (1) year from date of purchase will not be accepted unless it is found to be a manufacturer defect. The customer must include a written statement describing the alleged product defect. The complete Limited Warranty is set forth on the reverse side.

100% credit issued on manufacturer defects
20% return fee  on all reshelvable product
70% return fee  on all repairable product

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Please Complete the Information below, detach and include with returned product.

RGA#_________________________________ CT#________________________ Issued by:_____________________ Date_______________________
Purchaser’s Name_______________________________________________________ Phone_____________________________
Address______________________________________________________________
Purchased Directly Through______________________________________________ Invoice#____________________________
Product ID________________________________________________________ Invoice Date___________________________________
Reason________________________________________________________________

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