



INSTALLATION INSTRUCTIONS ENGINE SANDWICH ADAPTER KIT PART # 15702

KIT CONTENTS

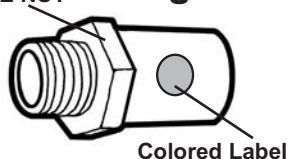
QTY. DESCRIPTION	QTY. DESCRIPTION
1 Sandwich Adapter	1 13/16-16 Sleeve Nut (Blue)
1 O-ring	1 18mm Sleeve Nut (White)
2 3/8" NPT x 1/2" Barb Fittings	1 20mm Sleeve Nut (Black)
1 3/4-16 Sleeve Nut (Yellow)	1 22mm Sleeve Nut (Green)

Please read these instructions completely before beginning installation

IMPORTANT

In most cases the Factory Oil Filter will work with the supplied sandwich adapter. In some applications where the frame or exhaust system interferes with the new filter depth we recommend using a shorter filter length. See the chart below for possible filter options.

SLEEVE NUT **Diagram #1**



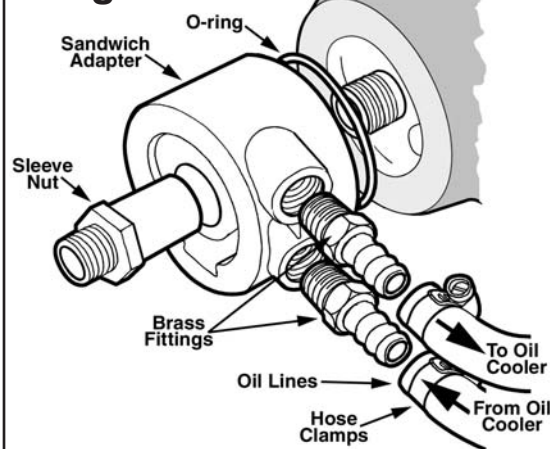
THREAD SIZE	LABEL COLOR	FRAM FILTER HEIGHT	FRAM P/N	WIX FILTER HEIGHT	WIX P/N	FRAM FILTER HEIGHT	FRAM P/N	WIX FILTER HEIGHT	WIX P/N
3/4-16	YELLOW	4.92	PH3600	4.83	51516	3.34	PH3614	3.4	51348
13/16-16	BLUE/RED	4.94	PH3429	4.83	51045	3.36	Ph3506	3.4	51042
18mm x 1.5	WHITE	4.94	PH3980	4.83	51036	3.36	PH3387A	3.4	51040
20mm x 1.5	BLACK	3.47	PH7317	N/A	N/A	3.39	PH3593A	3.14	51381
22mm x 1.5	GREEN	4.94	PH3750	4.57	57026	3.98	PH2	3.43	57060

SANDWICH ADAPTER INSTALLATION

The Sandwich Adapter fits between the oil filter and the engine block. Before removing the oil filter, check the clearance between the bottom of the filter and the closest vehicle obstruction. If there are none, then proceed with the installation. Otherwise, the Sandwich Adapter is 1-3/4" Thick, so you will need 2" more clearance than stock. If you determine that the stock filter will not fit, refer to the Filter Chart for alternative filter heights.

1. Remove the factory oil filter from the vehicle.
2. Take the 5 Sleeve Nuts provided, each Sleeve Nut has a Color coded label (See Diagram #1). For your reference, the filter chart above will tell you the thread size colors. The colors are only needed if: 1. You know the specific thread size of your vehicle or 2. You need to use the filter chart to determine an alternate filter to use. Using the old oil filter take each Sleeve Nut and determine which Sleeve Nut matches the oil filter by screwing the Sleeve Nut into the oil filter. Once you have determined the correct size, disregard the 4 other sizes.
3. Remove the colored label from the Sleeve Nut.
4. Take the Sandwich Adapter and the two Hose Barb Fittings provided. Using Teflon Tape or a suitable sealant, screw the Hose Barb Fittings clockwise into the Sandwich Adapter until snug. (See Diagram #2)
5. Using a wrench tighten the two Hose Barb Fittings.
6. Take the O-ring provided, apply a thin film of oil and install into the O-ring groove on the Sandwich Adapter. (See Diagram #2)
7. Making sure the engine block filter landing is clean from oil and dirt, take the Sleeve Nut, Sandwich Adapter, O-ring, and install onto engine sliding the Sleeve Nut thru the Sandwich Adapter. Turn sleeve nut clockwise onto the engines filter nipple. (See Diagram #2)
8. Using a torque wrench, torque the Sleeve Nut to 20 ft. lbs.

Diagram #2



ROUTING HOSES (HOSE SOLD SEPARATELY)

1. Install both ends of the hose onto the Hose Barb Fittings, forming a loop.
2. Take the looped end and route the hose to the oil cooler making sure to stay clear of sharp objects, exhaust systems, etc.
Note: All bends in hose need to have a minimum radius of 5" or the diameter of a small coffee can.
3. Cut and attach hoses to the oil cooler. Secure hoses using zip ties.

SYSTEM CHECK

1. Before starting the vehicle, check engine oil level and add accordingly.
2. Always check fluid levels on a flat surface.
3. After installation and vehicle has completely warmed up, recheck fluid level and inspect all connections for leaks.

Warning: Installation of accessories should only be undertaken by those with mechanical knowledge and are familiar with working on vehicles. Always use eye protection (goggles, safety glasses or shield). Park the vehicle in a well lit area, on level ground and apply the parking brake. Only work on a cold vehicle that has been sitting overnight, failure to do so will result in severe burns and injury. Before starting the vehicle, make sure no tools or any other items are left under hood that could interfere with or be drawn into moving parts of the engine. Failure to follow instructions can lead to severe damage and personal injury.