



INSTALLATION AND SERVICING INSTRUCTIONS UNIVERSAL BYPASS SYSTEM KIT FKUNIV

IMPORTANT NOTICE

Please Note – Before Installation

Follow the precautions below for optimal product performance and to reduce the risk of property damage, personal injury, and/or death.

Read All Instructions Before Proceeding

If you are uncomfortable with the instructions or have questions, do not attempt installation. Consult a mechanic or contact our customer service department at 800-341-6516 with any additional questions.

Improper installation of this product may result in damage to the vehicle on which it is installed. For questions regarding installation, contact Frantz customer service at 1-800-341-6516.

Install On Cool Engine

Never work in the engine compartment with the engine running. It is advised that you perform a full oil change with installation of this system.

A. BEFORE YOU BEGIN

1. Confirm all items on the Parts List are included in the system.
2. Ensure you have the required tools for the job.

RECOMMENDED TOOL LIST

- 7/32" Drill bit for mounting screws
- 3/8" Socket and wrench for mounting bolts
- 3/8" Wrench for mounting screws
- 7/16" Wrench for male hose fitting
- Utility knife to cut hose and hose covering
- Common screw driver for hose clamps

PARTS LIST

Basic Frantz Filter Kit (FKBASC)

Item Description	Qty.	Part No.
1. Mounting Screws with washers	3	FSCR
2. Base Gasket	1	KBGA
3. Black Knob	1	KBLK
4. V-Band Clamp	1	KVCLAMP
5. Mounting Bracket	1	KMOU
6. Cellulose Filter Media	1	FFMD-SP
7. Polished Canister w/Decal	1	KCAN
8. Pull Ring	1	KPUL
9. Filter Base	1	KBAS
10. 8' Hose	1	FHOS
11. 8' Hose Covering	1	FHOS-COV
12. Male Hose Fitting (1/4" Hose Barb)	4	FMAL

PARTS LIST (cont.)

Item Description	Qty.	Part No
13. 1/2" Hose Clamp	4	FOET .
14. 90° Brass Elbows	2	FELB90
15. 45° Brass Elbows	2	FELB45
16. Spare Base Gasket	2	KBGA
17. Thread Seal package	2	FTHR
18. 1/4 Brass Running Tee	1	FSTT14
19. 1/4 Brass Bushing	1	FBUS14
20. 1/8 Brass Running Tee	1	FSTT18
21. 5/16 SS Nut	2	FNUT516
22. 5/16 x 3/4 SS Bolt	2	FBOLT
23. 5/16 SS Lock Washer	2	FLW516
24. Bulk Head Fitting	1	FHEAD

Note: Be sure to use thread sealer at all connections. This is most important for connections with dissimilar metals (i.e. brass to aluminum).

B. INSTALLATION INSTRUCTIONS

There are multiple ways to install your Frantz Filter using the universal kit, and hook up will differ depending on the design of your vehicle. The key elements include having a pressure feed to the Frantz Filter and a return line back to the engine.

1. Locate a good mounting point for the filter. Mount the filter in a place that the hoses will be easy to reach and will not kink. You need enough room to easily separate the canister from the base to replace the filter media. Your kit comes with (3) screws (FSCR) that attach the mounting bracket (KMOU) to the surface you choose. The filter base (KBAS) will attach to the bracket with the (2) Nut, bolt, and lock washer combos (FNUT516,FBOLT,FLW516) found in your hardware bag.
2. The pressure feed can be installed in one of the following two ways:

- **A Street T pressure feed between oil pressure sending unit and block.**

Street T Pressure Feed

- a. Locate oil pressure sending unit. (Verify Thread Size if they are Metric additional parts may be needed)
- b. Remove sending unit.
- c. Screw either a 1/4" or 1/8" street "T" (FSTT14 or FSTT18) into the sending unit port. If you use the 1/4" T, you will need the 1/4" male to 1/8" female bushing(FBUS14).
- d. The sending unit will bolt into the backside of the T.
- e. The hose fitting (FMAL) will screw into the bottom of the T.

- **Using an existing port, typically found on the block or on the OE filter mount.**

Existing Ports Some vehicles have pressure ports near the stock filter or refer to engine manufacturer for proper port. If your vehicle has this type of port, simply remove the plug and the hose fitting (FMAL) will screw into the port (might need 1/4 to 1/8 bushing depending on the size of port). As a general rule, the pressure feed port will be located on or near the OEM Filter assembly. Consult the vehicle manufacturer's specifications to avoid damage to the engine.

3. Return Line: The return line can be installed by using an existing non pressurized port or by installing the FHEAD into the center of the oil cap. May be a good idea to buy an aftermarket replacement cap to install the FHEAD adaptor. The center of the cap will need to be drilled out and installed.
4. Cut hose (FHOS) to length, and route. Be sure to not run hoses close to or touching any hot exhaust parts or moving parts such as pulleys and belts. Use zip ties to secure if necessary – not included.
5. The pressure feed line will hook up to the fitting on the center of the filter base bottom labeled "IN," and the return line will hook up to the fitting on the edge of the filter base labeled "OUT". Insert fittings (FMAL) into "In" and "Out" ports on the base. Slip hose clamps (FOET) over hose leading from pressure feed; push hose onto "In" fitting. Slip hose clamp over hose leading from oil return and push hose onto "Out" fitting. Tighten clamps. (90° or 45° brass elbow may be needed for proper hose routing.)

C. START UP PROCEDURES

1. Check that all fittings and hoses are securely attached, and that the hoses are routed properly.
2. Check engine oil level. Fill to full mark on engine dipstick.
3. With the equipment secured start the engine and immediately check oil pressure. NOTE: Pressure may initially take a moment or two to rise. Let your engine run for a minimum of five minutes after installation. This allows your new Frantz Filter to begin absorbing oil in the media and fill the hoses.

Caution: carefully check for leaks at fittings, hoses and mount. If leaks are observed, **STOP ENGINE IMMEDIATELY**, repair leaks and continue.

4. After engine has been ran for a minimum of five minutes, shut off and re-check engine oil level. Fill as necessary.
5. Install black hose covering (FHOS-COV) on hoses.
6. Record vehicle mileage/operating hours and date of installation.

D. PERIODIC MAINTENANCE

1. Inspect the fittings and hoses. Check for leaks, hose deterioration and cuts. Repair and/or replace as necessary. **(At minimum at every oil change or 3,000 miles, whichever occurs first.)**
2. Filter media should be changed when engine oil is up to operating temperature and the filter housing is not warm. **(This indicates oil is no longer flowing through the filter)**

E. CHANGING THE FILTER ELEMENT

Caution: Engine should be cold when changing the filter element.

To change the bypass filter element:

1. Ensure the engine is off and use caution as the engine, oil and filter may be hot and can result in personal injury. (Let engine cool down, or start with cold engine.)
2. Loosen the black knob on the clamp and remove the clamp from the unit.
3. Pull filter housing off the filter base.
4. Grab pull ring to remove old filter from the canister, dispose of properly.
5. Clean out the Canister with a lint free rag and inspect filter base gasket, replace if any cuts or imperfections are found. Make sure gasket is sitting correctly in the receiver groove and coat with clean motor oil.
6. Install the new filter media with pull ring in the filter. Install canister back on filter base.
7. Tighten clamp using black knob
8. Check oil level and refill as needed.
9. Start the engine and check for leaks. (Run engine a minimum of 5 minutes)
10. Stop engine
11. Check oil level and refill as needed.
12. Record date of installation and miles/hours of the unit.

THE FRANTZ WARRANTY AND GUARANTEE

The Frantz Warranty

Frantz will replace any part or component that proves defective within 90 days. It will be replaced free of charge (no cost for labor) within that period.

NOTE: If an oil line fails, or an oil leak develops in the Frantz (either through failure of a part, sabotage, incorrect installation, or faulty servicing of the unit), and the engine loses its oil supply, Frantz disclaims any responsibility for damage to the engine should it be operated without proper lubrication.

Every vehicle has either a pressure gauge or warning light to indicate that oil pressure is not sufficient to lubricate the engine. When this occurs, it is the responsibility of the driver to stop the vehicle, investigate the problem, and take whatever remedial action is necessary.

The Frantz Guarantee

Frantz unconditionally states that if the Frantz has been installed and serviced in accordance with the manufacturer's instructions, the filter will keep the oil in your vehicle analytically clean. If it fails to do so, the purchase price of the unit will be refunded by the manufacturer, provided the filter, all parts and the original sales receipt are returned to Frantz within 90 days of the original installation. (Customer responsible for shipping cost back to manufacturer.)

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PARTS IDENTIFICATION

Pages 3 - 5

NAME	SKU	QTY	VISUAL
Mounting Screws with washers	FSCR	3	
Base Gasket	KBGA	1	
Black Knob	KBLK	1	
V-Band Clamp	KVCLAMP	1	
Mounting Bracket	KMOU	1	
Cellulose Filter Media	FFMD-SP	1	
Polished Canister w/Decal	KCANP	1	
Pull Ring	KPUL	1	

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NAME	SKU	QTY	VISUAL
Filter Base	KBAS	1	
8' Hose	FHOS	1	
8' Hose Covering	FHOS-COV	1	
Male Hose Fitting (1/4" Hose Barb)	FMAL	4	
1/2" Hose Clamp	FOET	4	
90° Bras Elbows	FELB90	2	
45° Brass Elbows	FELB45	2	
Spare Base Gasket	KBGA	2	

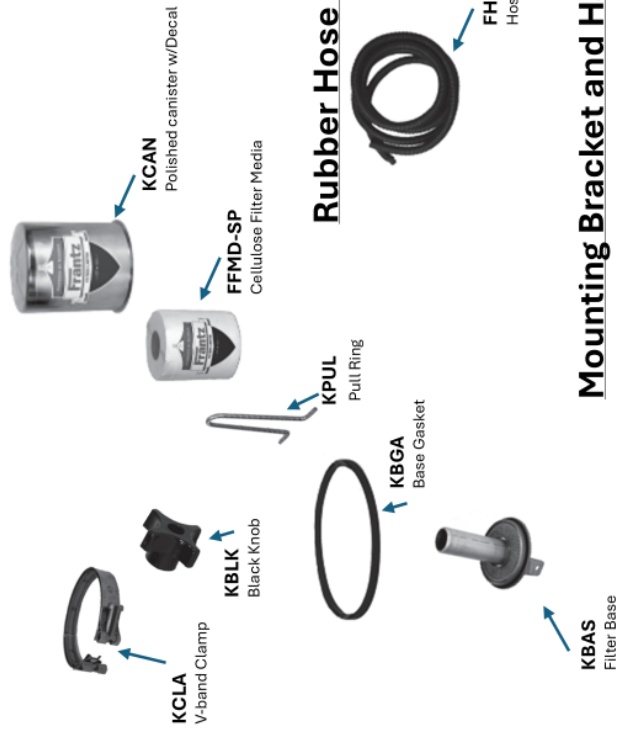
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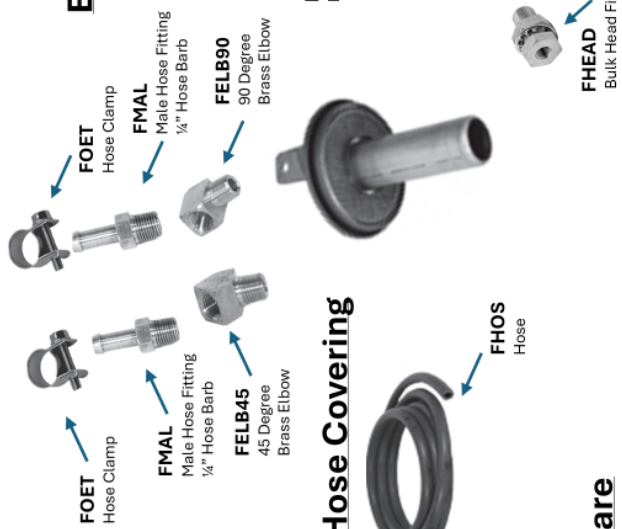
Pages 3 - 5

NAME	SKU	QTY	VISUAL
Thread Seal Package	FTHR	2	
1/4 Brass Running Tee	FSTT14	1	
1/4 Brass Bushing	FBUS14	1	
1/8 Brass Running Tee	FSTT18	1	
5/16 SS Nut	FNUT516	2	
5/16 x 3/4 SS Bolt	FBOLT	2	
5/16 SS Lock Washer	FLW516	2	
Bulk Head Fitting	FHEAD	1	

Engine Fittings and Adaptors



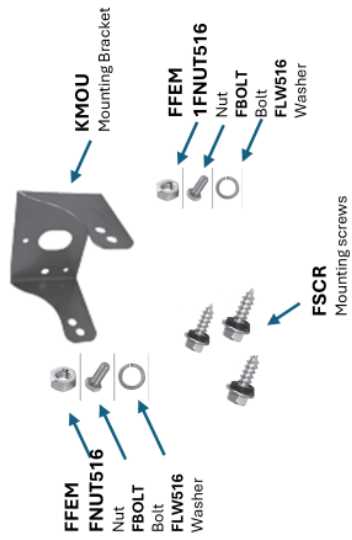
Filter Base Adaptors



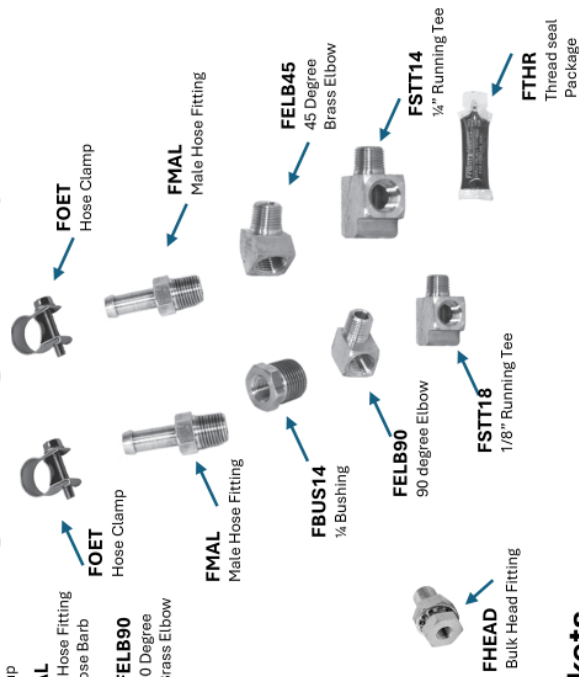
Rubber Hose and Hose Covering



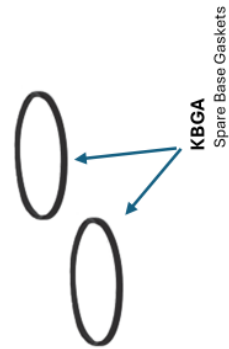
Mounting Bracket and Hardware



Engine Fittings and Adaptors



Spare Base Gaskets



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