



**CW Mill Equipment Co., Inc.**  
14 Commerce Drive Sabetha, KS 66534  
Phone: (785) 284-3454  
Fax: (785) 284-3601  
Email: brackets@cwmill.com  
Website: [www.cwkits.com](http://www.cwkits.com)

**VFK13092V-I4**

2020-2022 Ford Transit  
3.5L EcoBoost V6 Gas w/ A/C, w/o Dual Alternators, w/-w/o AWD  
3.5L PFDi V6 Gas w/ A/C, w/o Dual Alternators, w/-w/o AWD

Must use Vortec 92V Style Alternator  
For use w/ 6-Groove, 2" Diameter Pulley  
300% Overdrive Ratio w/ 2" Diameter Pulley

## INSTALLATION NOTES

1. The buyer is responsible for providing trained and experienced installation decision making with technical know-how to apply professional judgment that specifically applies to each individual installation.
2. Be sure to read and understand all available information including but not limited to instructions, warnings, sales terms, and warranties for the vehicle and all system components prior to attempting installation.
3. Disconnect the negative battery cable. Remove air duct for access to the OEM A/C compressor.

**NOTE:** On EcoBoost models remove the two charge-air tubes on the passenger side as well.

4. Remove both engine belts. The 4-groove belt will not be reused. Remove the three bolts from the OEM A/C compressor and lay aside. Remove the two split bushings from holes [B,C].
5. Install alignment bushings (6) on the engine at locations [B,C]. Install main bracket (1) onto the engine with bolt (5) at location [A]. Torque this installed bolt to 30-35 ft. lbs.

**NOTE:** On PFDi engines the oil pressure sensor wire will stay in its OEM location. Do not run the wire on the front side of the bracket.

6. Install the OEM A/C compressor at locations [B,C,D] with bolts (3) and washers (4). Torque bolts to 22-26 ft. lbs.
7. Install idler (7) and bushing (8) with bolt (9) and washer (10). Torque bolt to 30 ft. lbs.
8. Install tensioner (11) with bolt (12). Torque bolt to 22-25 ft. lbs.
9. Install the aftermarket alternator with bolts (13). Torque bolts to 30 ft. lbs.
10. Install the aftermarket alternator belt (14) and route it as shown in the diagram.

**NOTE:** The 4-groove belt will run on the middle four grooves of the 6-groove alternator pulley.

11. Install the OEM belt back to its original routing.
12. Replace the air duct and charge air tubes if equipped.
13. Connect battery cable. Start the engine and check for proper belt tracking.

**WARNING:** Before starting the engine. Check to make certain no wires, hoses, etc. that may have been disturbed during installation do not come in contact with any hot or moving parts. Run the engine and check for proper belt tracking, adjust if necessary. It is the installer's responsibility to make sure that all components are in proper position and alignment.



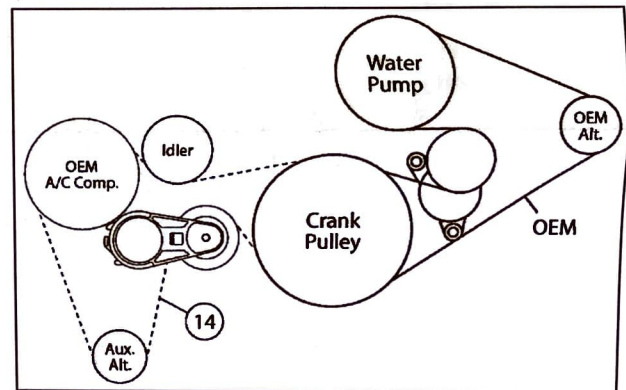
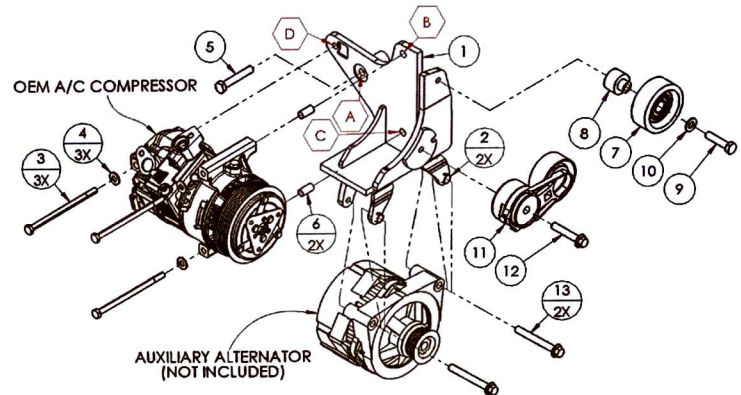
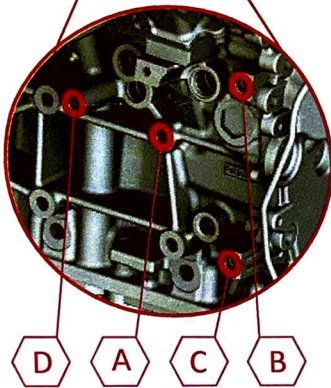
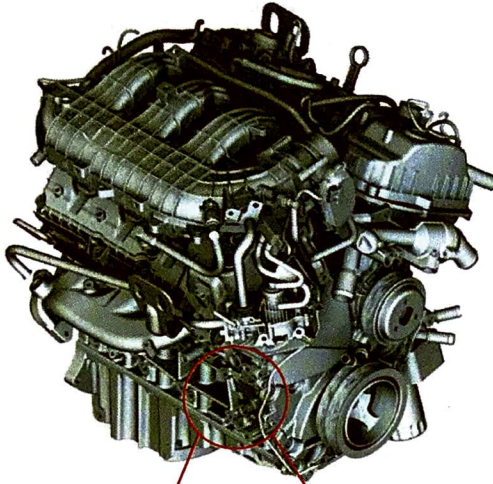
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# VFK13092V-1

2020-2022 Ford Transit  
 3.5L EcoBoost V6 Gas w/ A/C, w/o Dual Alternators, w/-w/o AWD  
 3.5L PFDi V6 Gas w/ A/C, w/o Dual Alternators, w/-w/o AWD

Must use Vortec 92V Style Alternator  
 For use w/ 6-Groove, 2" Diameter Pulley  
 300% Overdrive Ratio w/ 2" Diameter Pulley

## Parts List



## PARTS LIST

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
<b>Main Bracket</b>				9	✓ 1006630	M10-1.5 x 45mm 10.9Gr Hex Bolt	1
1	✓ VFMP13092V-14	Main Bracket	1	10	✓ 1007644	3/8" USS Flat Washer	1
2	✓ 1011888A	M14 Slide Bushing (Installed)	2	<b>Tensioner Assembly</b>			
<b>Main Bracket Mounting Hardware</b>				11	✓ 89396	Dayco Tensioner	1
3	✓ 1018288	M8-1.25 x 140mm 10.9Gr Hex Bolt	3	12	✓ 1006925	M10-1.5 x 55mm 10.9Gr Hex Flg. Bolt	1
4	✓ 1010202	M8 Flat Washer	3	<b>Auxiliary Alternator Mounting Hardware</b>			
5	✓ 1007594	M10-1.5 x 60mm 10.9Gr Hex Bolt	1	13	✓ 1006928	M10-1.5 x 80mm 10.9Gr Hex Flg. Bolt	2
6	✓ 001219	Machined Alignment Bushing	2	<b>Belt</b>			
<b>Smooth Idler Pulley Assembly</b>				14	✓ K040478	Custom Cut 4-Groove, 47.8" Belt	1
7	✓ 89007	Dayco Smooth Idler Pulley	1				
8	✓ VFMB130-1	Machined Idler Bushing	1				



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**MOUNTING KITS**

**VFK13092V-14**

2020-2022 Ford Transit

3.5L EcoBoost V6 Gas w/ A/C, w/o Dual Alternators, w/-w/o AWD

3.5L PFDi V6 Gas w/ A/C, w/o Dual Alternators, w/-w/o AWD

Must use Vortec 92V Style Alternator

For use w/ 6-Groove, 2" Diameter Pulley

300% Overdrive Ratio w/ 2" Diameter Pulley

## NOTES

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Disclaimer: (1.) Due to the custom nature and variation of all add-on systems of this type, no complete system kits are offered by the manufacturer, and any group of parts marketed as a kit is limited to only the individually defined parts in that specific kit. The system designer's rotating accessory components are not included, offered, or fully known by the manufacturer. In addition to the absence of the rotating accessory system, other potential components such as additional clamps, brackets, wear liners, hardware, or other items that may be required by the system designer must be identified and supplied by the actual system designer. (2.) Due to vehicle manufacturer's assembly tolerances, production changes, and installation variances, it is the buyer's responsibility to ensure adequate clearance for all components including space for and safe location of the fan, radiator, all lines, and wires. Check for possible movement, vibration, friction points, heat exposure and/or shifting of any and all components such as hoses, wires, and all other components including those that may otherwise be considered non-moving and/or unaffected by the installation (3.) The buyer is responsible for the entire installation of a mounting kit as the mounting kit is part of a custom process controlled by the buyer through their whole system design and directed installer as the installer evaluates, locates, routes, aligns, and tightens all components while determining if additional clamps, brackets, wear-liners, or other components may be required, beyond those included in the kit. Any additional items required, beyond those included in the kit, are to be provided at the expense of the buyer. (4.) The buyer is responsible for the development and communication of their whole system installation procedures, safety precautions, application, and use of the engine accessory mounting kit in their system, including efforts to maintain vehicle control and prevent pinch, wear, impact, and/or burn exposure on all hoses, wires, and other parts. (5.) The buyer is responsible for providing trained and experienced installation decision making with technical know-how to apply professional judgment that specifically applies to each individual installation. The buyers chosen installers must be qualified and experienced technicians that are familiar with the vehicle and accessory being mounted as well as the buyer's whole system design and installation procedures associated with the kit. (6.) The buyer is responsible for determining and achieving compliance to all regulatory issues that apply to the use of all products. (7.) The manufacturer reserves the right to make changes and/or improvements to any product at any time with or without notice.



## **CW MILL MOUNTING KIT LIMITED WARRANTY**

The warranty contained is exclusive and expressly in lieu of all other warranties (written, oral, implied, or statutory) including but not limited to expressed or implied warranties of merchantability or fitness.

### **This Warranty is specific to CW Mill Mounting Kit and Kit Components.**

**CW MILL EQUIPMENT CO., INC.** warrants that this component used by the original purchaser under normal use in North America, will be free from defects in material and workmanship for a period of 90 days from the date of delivery to end user when purchased from an authorized dealer.

Subject to the exclusions and limitations stated herein, **CW MILL EQUIPMENT CO., INC.** will correct any defects in materials and workmanship of which **CW MILL EQUIPMENT CO., INC.** is informed within the required time period

1. **LIMITATIONS:** THE SOLE RESPONSIBILITY OF **CW MILL EQUIPMENT CO., INC.** UNDER THIS WARRANTY SHALL BE TO REPAIR AND/OR REPLACE PARTS AT THE **CW MILL EQUIPMENT CO., INC.** FACTORY, OR AT A LOCATION APPROVED IN WRITING BY **CW MILL EQUIPMENT CO., INC.** **CW MILL EQUIPMENT CO., INC.** SHALL NOT BE HELD RESPONSIBLE FOR ANY COST OF LABOR, TRANSPORTATION OF THE COMPONENT TO OR FROM THE LOCATION OF REPAIR, NOR FOR ANY DAMAGES RESULTING FROM THE LOSS OF USE, INCONVENIENCE, COMMERCIAL LOSS, LOSS OF TIME, OR ANY OTHER TYPE OF DAMAGES, GENERAL OR SPECIFIC, FORESEEN OR UNFORESEEN, CONSEQUENTIAL OR INCIDENTAL.

2. **ORIGINAL PURCHASER:** This WARRANTY is extended to the original purchaser only and is terminated upon sale, assignment, or other transfer of the component by the original purchaser.

3. **SPECIFIC EXCLUSIONS:** This warranty specifically excludes the following:

- (a) PARTS AND EQUIPMENT WHOSE OWN ORIGINAL MANUFACTURERS WARRANTY WILL APPLY.
- (b) WEAR PARTS.
- (c) Other components not related to Mounting Kits.
- (d) Items sold as is, used, pre-owned, and rebuilt parts.
- (e) Customer or installer supplied components including clamps, shields, brackets, wear-liners, hardware, etc., possibly added during the install.
- (f) Items damaged by the installer and/or installer's component routing, placement, alignment, or tightness.
- (g) Items damaged through Inadequate Clearance or Heat, including fans, radiators, lines, wires, etc.
- (h) **NOTE: Due to truck manufacturer's assembly tolerances, production changes, and installation variances, it is the buyer's responsibility to insure adequate clearance for all components including space for and safe location of the fan, radiator, all lines, and all wires. Check for possible movement, vibration, friction points, heat exposure and/or shifting of any and all components such as hoses, wires, and all other components including those that may otherwise be considered non-moving and/or unaffected by the installation. The buyer is to supply additional clamps, shields, brackets, wear-liners, hardware, etc., as needed for actual installation.**

4. **NORMAL USE:** This WARRANTY covers only defects in original components which arise from normal use in processing and does not apply if the component has been subject to negligence, accident, overload, alteration, inadequate maintenance, abuse, excessive vibration, or has been repaired or modified without the prior written consent of **CW MILL EQUIPMENT CO., INC.**

5. **PRIOR WRITTEN CONSENT:** Any repairs made other than at **CW Mill Equipment Co., INC.** factory must be authorized by **CW MILL EQUIPMENT CO., INC.** in writing. No reimbursement will be made to any dealer or owner for repairs made without the prior written consent of **CW MILL EQUIPMENT CO., INC.**

6. **REQUIRED PROCEDURES:** In order to expedite the correction of any problems covered by this warranty, the following procedures MUST BE FOLLOWED:

- (a) If you feel you have a warranty problem and wish to start a warranty claim, notify your dealer or the factory by phone, at 800-734-3491, or by fax at 785-284-3601 and registered letter addressed to **CW MILL EQUIPMENT CO., INC.** P.O. Box 246, Sabetha, KS 66534, within five (5) days after detection of the defect. Include your name, address, work and home phone numbers, a complete description of the problem, the serial number of the machine or vehicle that the component was intended for, the location of the component, and the name of the dealer from whom the kit was purchased.
- (b) **CW MILL EQUIPMENT CO., INC.** requires the equipment owner to furnish a purchase order to **CW MILL EQUIPMENT CO., INC.** authorizing and acknowledging that if the problem is not covered by the **CW MILL EQUIPMENT CO., INC.** warranty, the equipment owner agrees to pay for all expenses incurred by **CW MILL EQUIPMENT CO., INC.** in servicing the equipment.
- (c) **CW MILL EQUIPMENT CO., INC.** shall not reimburse purchaser for any repairs or adjustments without prior WRITTEN APPROVAL from **CW MILL EQUIPMENT CO., INC.**

7. **DISCLAIMER:** **CW MILL EQUIPMENT CO., INC.** MAKES NO REPRESENTATION OR WARRANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, WITH RESPECT TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR ANY OTHER MATTER.

8. **DISCLAIMER:** NO ONE, INCLUDING AN AUTHORIZED **CW MILL** DEALER, IS AUTHORIZED TO MAKE ADDITIONAL WARRANTIES ON BEHALF OF **CW MILL EQUIPMENT CO., INC.** IN REGARD TO THIS UNIT.

9. ANY FAILURE BY THE CUSTOMER TO PAY BILLED INVOICES WITHIN DEFINED TERM~~S~~ SHALL BE CAUSE FOR **CW MILL EQUIPMENT CO., INC.** TO WITHHOLD ANY WARRANTED ITEM AND/OR FUTURE PURCHASES.

10. **CW MILL EQUIPMENT CO., INC.** DOES NOT GUARANTEE ANY RETURN FOR CREDIT OR EXCHANGE PRIVILEGE ON ANY PART, KIT, OR ASSEMBLY.

11. **CW MILL EQUIPMENT CO., INC.** reserves the right to make changes and / or improvements to its product offering up to the point of shipment and to the end of any applicable warranty period within the confines of applicable quotations and / or sales orders made specifically for the purchaser defining specific product configurations required in the sale. Other product variances may occur between similar past, present, & future units. Product configurations and design standards for all **CW MILL EQUIPMENT CO., INC.** products are subject to change without notice. **CW MILL EQUIPMENT CO., INC.** design evolution and / or product. variance are not cause for warranty upgrade or change unless deemed necessary at the sole judgment of **CW MILL EQUIPMENT CO., INC.**

12. **GENERAL INSTALLATION DETAILS:**

- (a) The buyer is responsible for the entire installation of a mounting kit as the mounting kit is a part of a custom process controlled by the buyer through their whole system design and their directed installer as the installer evaluates, locates, routes, aligns, and tightens all components while determining if additional clamps, brackets, wear liners, or other components may be required, beyond those included in the kit. Any additional items required, beyond those included in the kit, are to be provided at the expense of the buyer.
- (b) The buyer is responsible for the development and communication of their whole system installation procedures, safety precautions, application, and use of the engine accessory mounting kit in their system, including efforts to maintain vehicle control and prevent pinch, wear, impact, and/or burn exposure on all hoses, wires, and other parts.
- (c) The buyer is responsible for providing trained and experienced installation decision making with technical know-how to apply professional judgment that specifically applies to each individual installation. The buyer's chosen installers must be qualified and experienced technicians that are familiar with the vehicle and the accessory being mounted as well as the buyer's whole system design and installation procedures associated with the kit.