

CW MILL EQUIPMENT CO., INC. MOUNTING KIT & MOUNTING KIT COMPONENT 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 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.

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, sale terms, and warranties for the vehicle and all system components prior to attempting installation.
3. It is recommended to put these installation instructions inside the glove box of the vehicle after the installation process is completed. If a sticker is provided, write the kit number on the sticker and place it in a visible location under the hood of the vehicle.
4. It is recommended to use a mild grade (blue) Loctite on all fasteners provided in this mounting kit unless otherwise specified to resist engine vibrations and vehicle operations from working the fasteners loose.
5. Disconnect the negative battery cables.
6. Remove the air duct from the passenger side of the engine.
7. Remove the charge-air tube from the driver side of the engine.
8. Remove the power steering reservoir from the fan shroud. Then, remove the top half of the fan shroud. It is highly recommended that the radiator be protected with cardboard or other suitable material to prevent damage during this installation.
9. Remove the bolt holding the fan wire standoff to the engine. Then, disconnect the fan wire. Remove the fan via the four nuts holding it to the fan clutch. It is not necessary to remove the fan clutch or fan nut, but they can be removed at the installer's discretion (fan nut has right-hand threads). Remove the four nuts holding the fan ring to the engine. Then, remove the fan ring from the vehicle (it is best to rotate the fan ring clockwise until the rubber flap is facing upwards).
10. Remove the OEM belt. It will be reused.
11. Disconnect the wires from the OEM alternator. Then, remove the OEM alternator. The bolts will be reused. Drain as much fluid as possible from the power steering reservoir. Then, remove the hose connecting the power steering reservoir to the power steering pump. Remove the power steering pump from the bracket. The bolts will be reused. Let it lay inside the fan shroud. It is not necessary to remove the steel high-pressure line from the power steering pump. Remove the OEM power steering/alternator bracket. The idler pulley assembly will be reused.
12. Remove the plastic wire harness support from the lower-driver side of the engine. It will not be reused. Protect the wire using the wire protectors (22-23) and zip ties (24). Using clamp (20) and bolt (21) secure the wire harness to the engine at mounting location [C].

INSTALLATION NOTES

13. Drain the engine coolant and remove the hose connecting the radiator reservoir to the engine. Remove the plastic hose clamp from the quick disconnect elbow. Remove the hose from the elbow. Replace that hose with hose (25) using clamps (26-27). This hose is replaced to provide clearance to the auxiliary A/C compressor hoses.
14. Rotate the clamp on the fitting that is just to the left of the crank pulley. This is to help avoid it from interfering with the aftermarket belt. On that same hose, roll the protective sleeve down and secure it with a zip tie to keep it from getting into the belt. Refer to the picture for guidance for this step.
15. Install the auxiliary A/C compressor onto the main bracket (1) using hardware (31-32).
16. Install the auxiliary A/C compressor and main bracket (1) onto the engine with bolts (2) at mounting location [A] and bolts (3) at mounting location [B]. Torque bolts to 24-27 ft/lbs.
17. Install the power steering pump bracket (4) onto the main bracket (1) using bolts (5). Remove the suction hose elbow from the power steering pump. Install fitting (6) reusing the OEM bolt and O-ring. Install hose (18) onto the power steering pump using clamp (19). Install the power steering pump reusing the OEM hardware. The steel high-pressure will need to be bent slightly for clearance of any hot or moving parts, but it does not need to be removed from the pump. The steel line usually works best when it is run behind the water pump pulley.
18. Install the OEM alternator onto the main bracket (1) reusing the OEM hardware and roughly placing the upper fan ring brace (15). It may be necessary to readjust the upper fan ring brace (15) for proper clearances later in the installation process. Reconnect the OEM alternator's wires.
19. Remove the grooved or smooth idler pulley from the OEM bracket. Install it onto the main bracket (1) just below the alternator with all OEM hardware.
20. Install the grooved idler pulley assembly (11a-14) or smooth idler pulley assembly (11b-14) onto the new power steering pump bracket (4).
21. Install the tensioner bracket (7) with bolts (8) onto the main bracket (1). Install tensioner (9) with bolt (10).
Check the clearances between the tensioner arm/pulley and the power steering pump pulley. There should be no obstructions for the full travel of the tensioner arm. Adjust or modify if necessary.

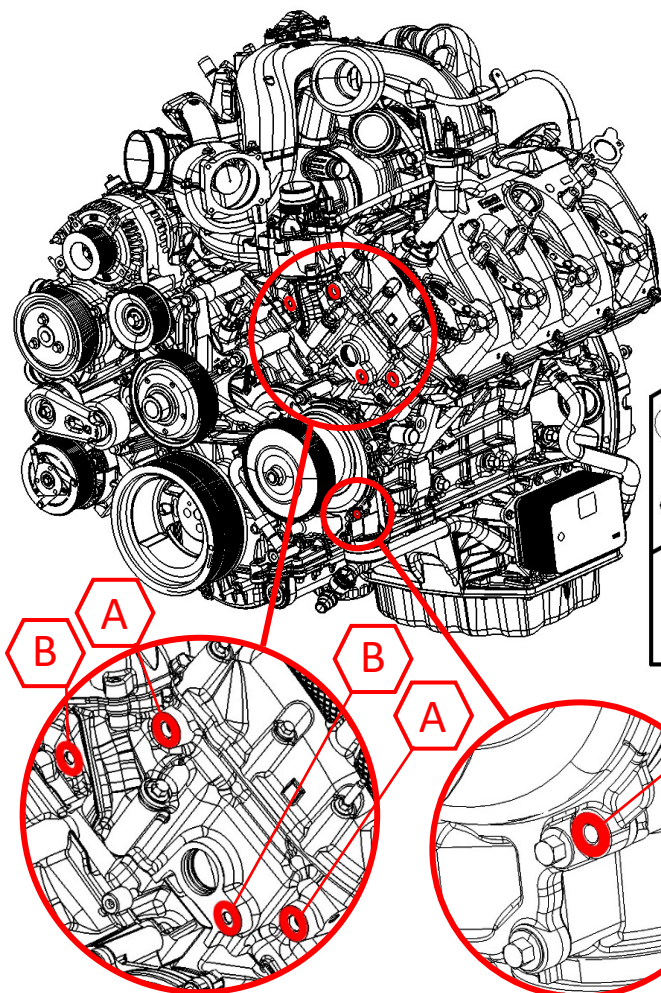
INSTALLATION NOTES

22. Due to the auxiliary component specifications not being fully known by the manufacturer of this mounting kit and other factors. The following procedure must be followed completely when installing the belt. **DO NOT put the vehicle into service if all the following procedure and criteria is not met.** It is the installer's responsibility to make certain all the following procedure is met and to adjust the appropriate components, if necessary, before the vehicle is put into service:
- a. Check that the pulleys and belt(s) have no visible damage to them or existing debris.
 - b. Check to make certain the new and adjusted smooth and grooved pulleys are in parallel with each other and/or the next closest OEM smooth and grooved pulley(s).
 - c. Using a straight edge and caliper, belt alignment laser, or another suitable tool(s). Measure the alignment of the new and adjusted grooved pulley(s) in reference to each other and/or the next closest OEM grooved pulley in the belt routing. In general, the tolerance of alignment is +/- 1mm.
 - d. Make certain that the tensioners can freely move throughout their entire travel distance.
 - e. First, reinstall the OEM multiple accessories belt. Then, install the auxiliary A/C compressor belt (33) and route them as shown in the belt routings illustration. **NOTE: Auxiliary A/C compressor belt (33) should run on the front, six grooves of the eight-groove clutch.** Visually make certain that the belts are properly seated on all pulleys.
 - f. Check the tensioners' position. Ideally, upon initial belt install, the tensioners should be over halfway to their max travel position ("tight side"), but not completely to their max travel position. Over time, the belts will work themselves into the grooves of the pulleys and slightly stretch. The tensioners' position should move closer to the halfway (nominal) position in their travel distance.
 - g. Check all around the belts to make certain that the belts do not/will not come into contact with any wires, hoses, brackets, etc. at this moment. Properly adjust any components, if necessary, to gain as much clearance as possible.
23. Trim the fan ring as shown. Using professional and experienced judgment, drill out a 3/8" hole in the fan ring to connect the upper fan ring brace (15) to the fan ring using mounting hardware (16-17). Then, reinstall it back onto the engine using the applicable OEM hardware and using lower fan ring brace (28-30) on the driver's side of the fan ring mount to help avoid belt contact. Rotating it counterclockwise to get the rubber flap under the fan shroud works best.
24. Reinstall the fan to the fan clutch using OEM fan nuts. Reconnect the fan wire. Attach the fan wire support back to its original location. Replace the top half of the fan shroud with OEM bolts.
25. Reinstall the power steering reservoir onto the fan shroud. Route the new return hose (18) to the reservoir. Cut the hose if necessary for the best fit and clearance of any hot and moving parts. Secure it to the reservoir with clamp (19).

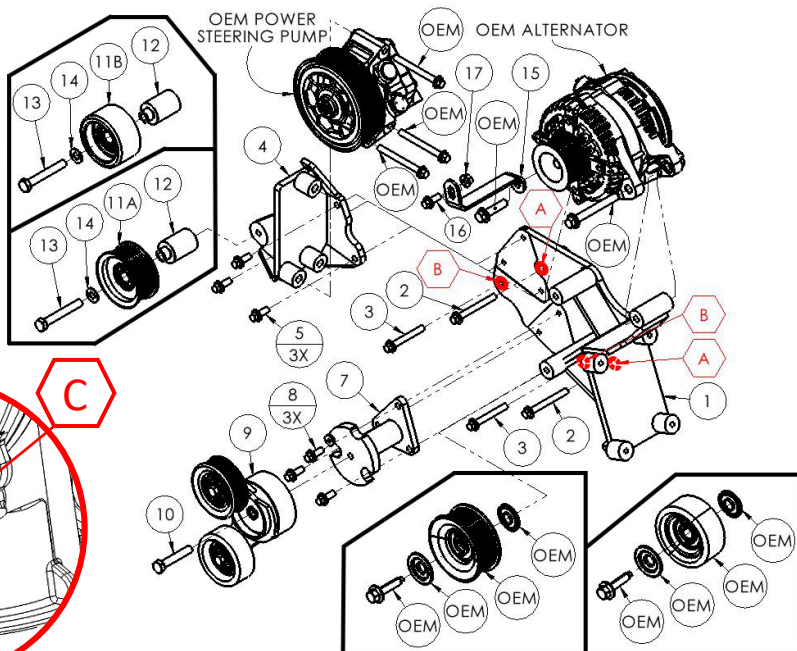
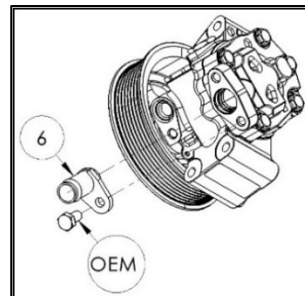
INSTALLATION NOTES

26. Make certain that all fasteners are properly tightened or connected. Reinstall any components that may have been removed. Check for any excessive movement of the newly installed or modified components. Reconnect any wires or wire harnesses that have been disconnected. Properly refill any fluids that may have been drained. Reconnect the battery cables.
27. Due to the operational functions of the vehicle not being fully known by the manufacturer of this mounting kit and other factors. The following procedure must be followed completely when the mounting kit installation is completed. **DO NOT put the vehicle into service if all the following procedure and criteria is not met.** It is the installer's responsibility to make certain all the following procedure is met and to adjust the appropriate components, if necessary, before the vehicle is put into service:
 - a. Before starting the engine, check to make certain no wires, hoses, etc. that may have been disturbed during installation do not/will not come into contact with any hot or moving parts.
 - b. Start the engine. Visually, check for proper belt tracking and clearance of any hoses, wires, etc. Visually, check for excessive vibrations or movements.
 - c. Run the accessory component(s) under operational: loads, engine speeds, and working conditions. Visually, during these operational parameters: Recheck for proper belt tracking and clearance of any hoses, wires, etc. Recheck for excessive vibrations. Recheck the tensioners position, make certain that they do not reach their max travel or free arm positions at any time and can properly move throughout their travel distance.
 - d. Verify that the belts do not squeak, chirp, walk, whip, or slip on any accessory components during operational: loads, engine speeds, and working conditions.
 - e. Check for fluid leaks.
 - f. Use professional and experienced decision making to make certain that all wires, hoses, components, brackets, etc. are properly functioning and do not/will not come into contact with any hot, moving, or nonmoving parts that may affect the vehicle's operational and safety compacies. Properly adjust any components, if necessary, to gain as much clearance as possible.

Parts List



Notice: Trucks with a build date of May 2nd, 2024 or later have a single-side, grooved accessory drive belt installed. Use appropriate idler pulleys.



PARTS LIST

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
Main Bracket				Grooved Idler Pulley Assembly (Build Date < May 2nd, 2024)			
1	FMP267TM21-I6	Main Bracket	1	11a	89053	Dayco 8-Groove Idler Pulley	1
Main Bracket Mounting Hardware				12	FMB2654	Machined Idler Bushing	1
2	1018206	M8-1.25 x 70mm 10.9Gr Hex Flg. Bolt	2	13	1011649	M10-1.5 x 70mm 10.9Gr Hex Bolt	1
3	1018001	M8-1.25 x 60mm 10.9Gr Hex Flg. Bolt	2	14	1002596	3/8" Flat Washer	1
Power Steering Pump Bracket Assembly				Smooth Idler Pulley Assembly (Build Date > May 2nd, 2024)			
4	FMB2651	Power Steering Pump Bracket	1	11a	89016	Dayco Smooth Idler Pulley	1
5	1013329	M8-1.25 x 20mm 10.9Gr Hex Flg. Bolt	3	12	FMB2654	Machined Idler Bushing	1
Power Steering Pump Fitting				13	1011649	M10-1.5 x 70mm 10.9Gr Hex Bolt	1
6	FMB2657	Power Steering Pump Fitting	1	14	1002596	3/8" Flat Washer	1
Tensioner Bracket Assembly				Upper Fan Ring Support Brace			
7	FMB2672	Tensioner Bracket	1	15	FMB2674	Upper Fan Ring Support Brace	1
8	1013329	M8-1.25 x 20mm 10.9Gr Hex Flg. Bolt	3	16	1013329	M8-1.25 x 20mm 10.9Gr Hex Flg. Bolt	1
Tensioner Assembly				17	1013333	M8-1.25 10.9Gr Hex Flg. Nut	1
9	89254-007-051M	Custom Assembled & Modified Tensioner	1				
10	1006925	M10-1.5 x 55mm 10.9Gr Hex Bolt	1				

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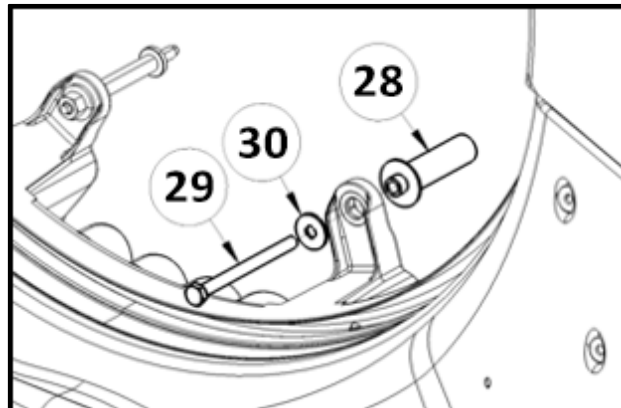
2023 (Build Date > 01/23)-2026 Ford F-250-F-550, F-600 Super Duty
 6.7L V8 PowerStroke Diesel w/ A/C, w/ OEM Dual Alternators,
 w/o Ford ProPower Option, w/o Adaptive Steering

For use w/ TM21 Direct-Mount Compressor
 w/ 8-Groove, 127mm Diameter Clutch
 Approximately 155% Overdriven w/ 127mm Diameter Clutch

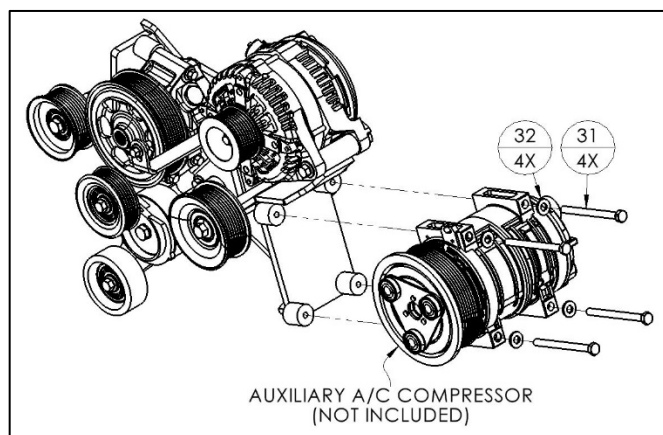
Parts List



Battery Cable Support Hardware (20-24)



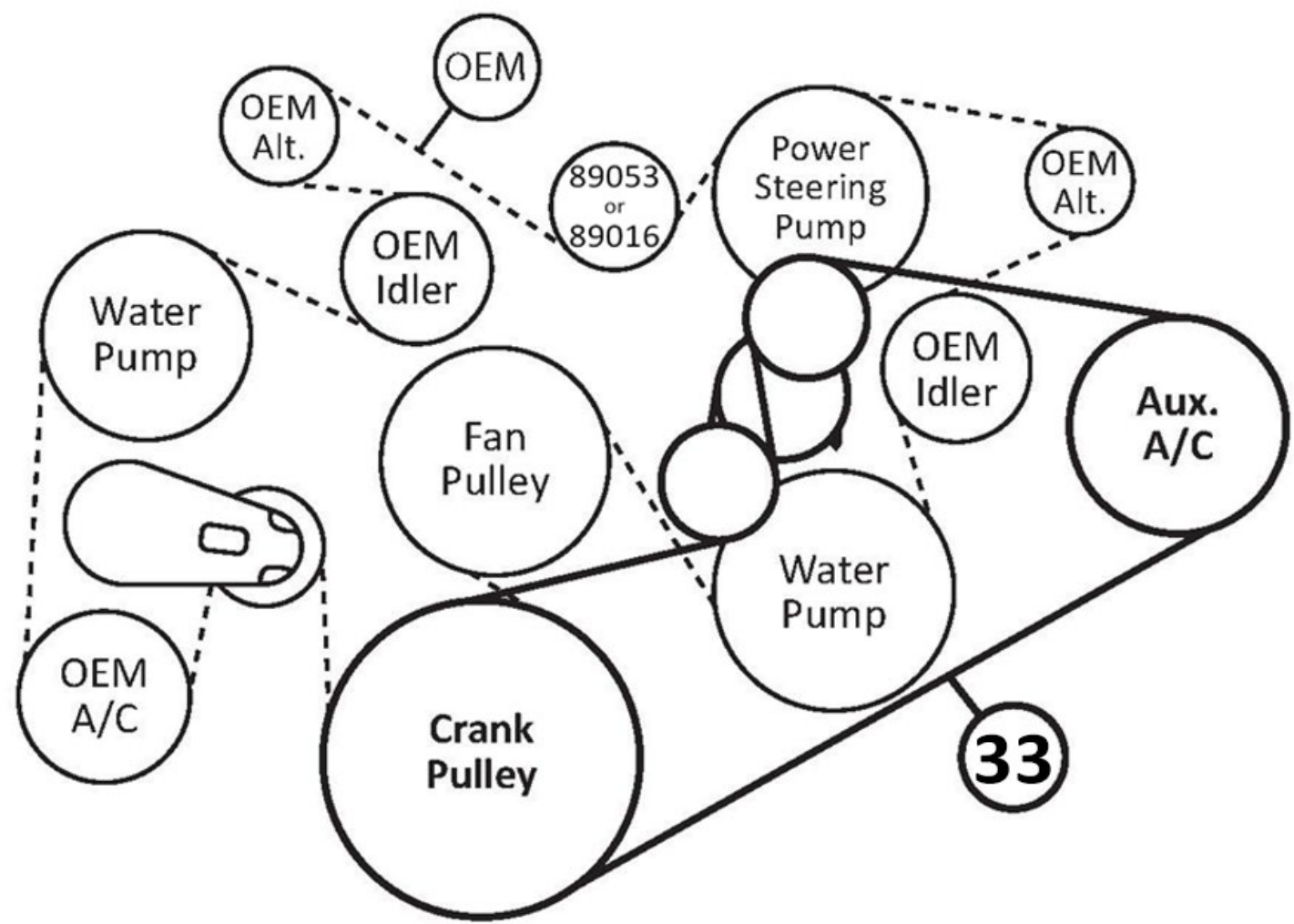
Lower Fan Ring Support Brace (28-30)



Auxiliary A/C Compressor Mounting Hardware (31-32)

PARTS LIST							
Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
Power Steering Pump Suction Line Hardware (Not Shown)				Lower Fan Ring Support Brace			
18	1011671	3/4" Oil Hose	40"	28	FMB2673	Lower Fan Ring Support Brace	1
19	1011673	#12 Hose Clamps	2	29	1011957	M8-1.25 x 100mm 10.9Gr Hex Bolt	1
Battery Cable Support Hardware				30	1024012	M8 Fender Washer	1
20	1005110	#16 Adel Clamp	1	Auxiliary A/C Compressor Mounting Hardware			
21	1016330	M6-1.0 x 20mm 10.9Gr Hex Flg. Bolt	1	31	1011957	M8-1.25 x 100mm 10.9Gr Hex Bolt	4
22	1018238	3/4" Protective Plastic Hose	20"	32	1010202	M8 Flat Washer	4
23	1007564	1" Heater Hose	6"				
24	1005413	7-1/2" Zip Ties	4				
Coolant Reservoir Hose (Not Shown)							
25	F265HH	Custom Rubber Hose	1				
26	1011672	#16 Hose Clamp	1				
27	1009294	#20 Hose Clamp	1				

Belt Routings



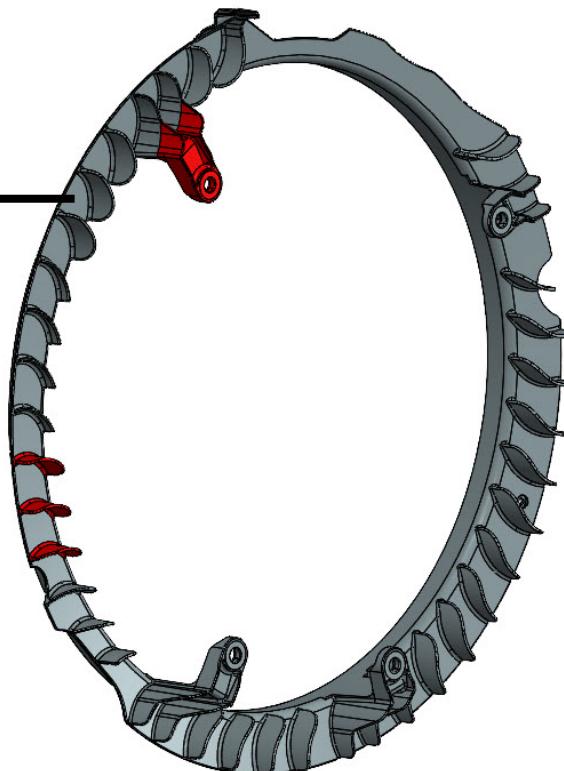
PARTS LIST			
Item	Part Number	Description	Qty.
Belt (Only One is Supplied)			
33	5060660	Dayco 6-Groove, 66.0" Belt	1
	K060660	Gates 6-Groove, 66.0" Belt	1

FMK267TM21-I6

2023 (Build Date > 01/23)-2026 Ford F-250-F-550, F-600 Super Duty
 6.7L V8 PowerStroke Diesel w/ A/C, w/ OEM Dual Alternators,
 w/o Ford ProPower Option, w/o Adaptive Steering

For use w/ TM21 Direct-Mount Compressor
 w/ 8-Groove, 127mm Diameter Clutch
 Approximately 155% Overdriven w/ 127mm Diameter Clutch

Approximate Location
 To Drill 3/8" Hole For
 Upper Fan Ring Support Brace (16)



Fan Ring Modification
 (Remove Highlighted Areas)



Guidance Photo



For use w/ TM21 Direct-Mount Compressor

w/ 8-Groove, 127mm Diameter Clutch

Approximately 155% Overdriven w/ 127mm Diameter Clutch

INSTALLER'S NOTES

[illegible]

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.