



INSTRUCTION BULLETIN

No. 9014424
Machine: M20 / M30 /
T20
Published: 12-2017
Rev. 00

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

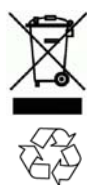
Installation instructions for **kit number 9014423**

SYNOPSIS:

This kit contains the parts needed to replace the sheave assembly on M20 / M30 / T20 machines equipped with Mitsubishi 2.0L Gas or LP engines.
Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 3 hours)



PROTECT THE ENVIRONMENT

Please dispose of packaging materials, used machine components such as batteries and fluids in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle.

PREPARATION:

1. Park the machine on a clean level surface, turn off the machine, remove the key, and set the parking brake.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, and remove key.

2. Open and / or remove shrouds / covers necessary to access the engine.

INSTALLATION:

1. Remove the fan shroud / belt guard from the machine. Set the fan shroud / belt guard and all mounting hardware aside.
2. Drain the antifreeze from the coolant system. Dispose the drained antifreeze.
3. Remove the radiator from the machine. Set the radiator and all mounting hardware aside.

4. Remove the cooling fan assembly from the engine. Set the fan assembly and all hardware aside. (Fig. 1)
5. Remove the engine belt from the machine. Set the engine belt aside. (Fig. 1)
6. Remove the sheave and fan hub pulley from the machine. Discard the sheave, spacer, key, bearings, and all mounting hardware. (Fig. 1)
7. Remove the hardware securing the alternator arm to the fan shaft plate. Set the hardware aside. (Fig. 1)
8. Remove / move any components necessary to access and remove the fan shaft plate from the machine. Set all removed items aside. (Fig. 1)
9. Remove the fan shaft plate from the machine. Set all mounting hardware aside. Discard the fan shaft plate. (Fig. 1)

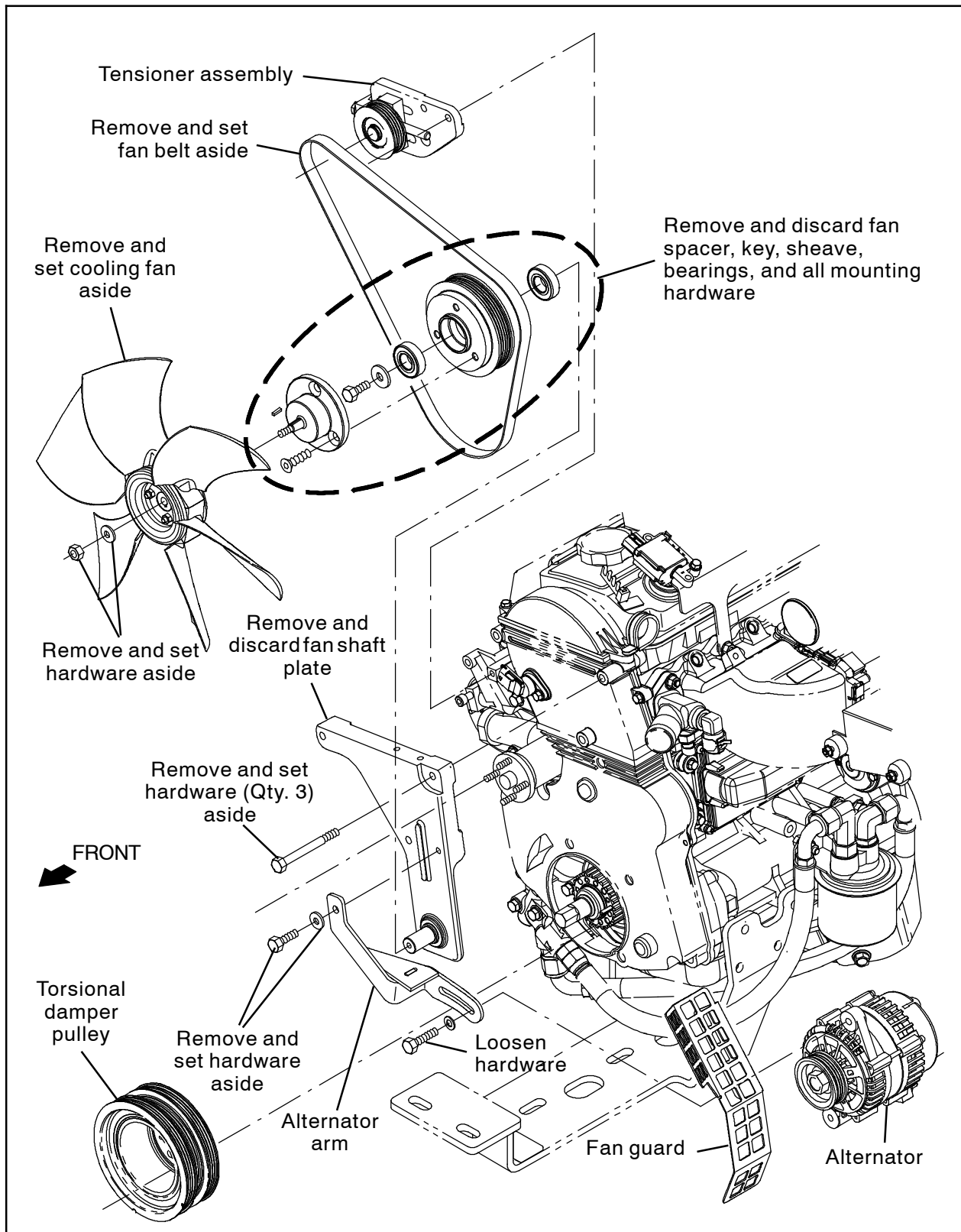


FIG. 1

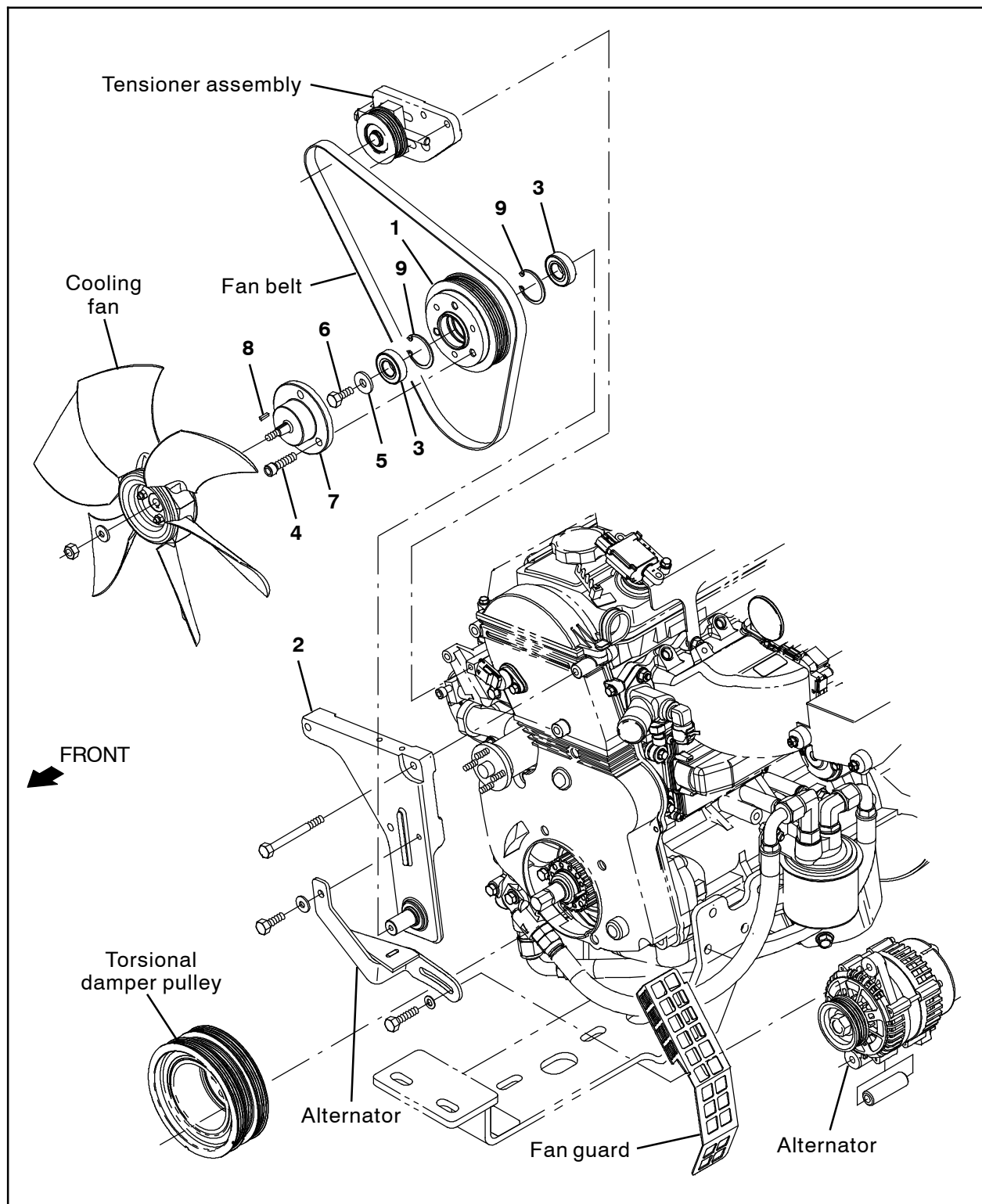


FIG. 2

10. Install the new fan shaft plate (2) onto the machine. (Fig. 2)

11. Install the alternator arm onto the fan shaft plate (2). (Fig. 2)

12. Insert both retaining rings (9) into the new sheave (1). (Fig. 2)

13. Press both ball bearings (3) into the sheave (1) and against the retaining rings (9) installed in the previous step. (Fig. 2)

14. Slide the sheave assembly onto the fan shaft plate (2). (Fig. 2)
 15. Use a hex screw (6) and a flat washer (5) to secure the sheave assembly(1) onto the fan hub plate (2). (Fig. 2)
 16. Use three socket screws (4) to install the fan spacer (7) onto the sheave assembly (1). (Fig. 2)
 17. Position the engine belt onto the sheave assembly, alternator, and torsional damper pulley. (Fig. 2)
 18. Insert the key (8) into the notch in the fan spacer (7). (Fig. 2)
 19. Reinstall the cooling fan assembly onto the machine. Be sure the key (8) remains in the notch in the fan spacer (7) when installing the cooler fan assembly onto the fan spacer. (Fig. 2)
 20. Tighten the engine belt to the appropriate tension. Refer to the Maintenance section of the Operators manual for the correct tension.
 21. Check the engine belt alignment. If necessary, make necessary adjustments to properly align the belt.
 22. Reinstall the fan shroud / belt guard onto the radiator.
 23. Reinstall the radiator onto the machine.
 24. Refill the engine cooling system with the appropriate amount of fresh antifreeze. **Do Not** reuse the removed antifreeze. Refer to the Specifications section of the Operators Manual for the required amount.
- NOTE: Be sure all air is purged from the cooling system and the antifreeze is at the correct level in the recovery tank before operating the machine.*
25. Start and run machine for several minutes. Observe the coolant system for leaks. Turn off the machine and recheck the antifreeze level. Add antifreeze as necessary.

Bill of Materials for Sheave Kit, Repair [Mit 2.0I] - 9014423

Ref.	Tennant Part No.	Description	Qty.
1	1070426	Sheave, Mach [Mit 2615rpm fan]	1
2	1073529	Plate Wldt, Shaft, Fan [Shaft Extended]	1
3	1055377	Bearing, Ball, 20mmb 42mmd 12mmw	2
4	10831	Screw, Soc, .38- 16 X 1.25, Al	3
5	1017218	Washer, Flat, 0.32b 1.00d .12, SS	1
6	16735	Screw, Hex, M8 X 1.25 X 16, 8.8	1
7	1070431	Spacer, Fan, Taper [Mit 2013]	1
8	00960	Key, Sq, 0.12 X 0.12, 0.50l	1
9	1074849	Ring, Retaining, Int, 42mm	2

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