

Product: MOTOR GRADER
Model: 120 MOTOR GRADER 10R
Configuration: 120 MOTOR GRADER 10R00001-02881 (MACHINE)

Disassembly and Assembly NO. 120 & NO. 140 ENGINE

Media Number -REG01268-00

Publication Date -01/01/1973

Date Updated -10/10/2001

Vibration Damper And Crankshaft Pulley

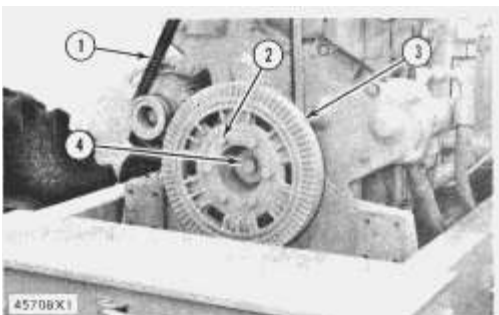
SMCS - 1205-11; 1205-12

Remove Vibration Damper And Crankshaft Pulley

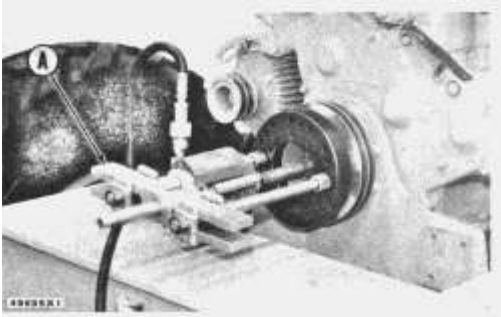
Tools Needed		A
1P820	Hydraulic Puller Group	1
5F7369	Leg	2
5F7342	Adapter	2
3H465	Plate	4
5F7353	Washer	1
1B4207	Nut	2
8B7560	Step Plate	1
1/2"-13NC	Bolt (2 1/2" long)	4
FT915	Adapter Plate	1

start by:

- a) remove radiator and guard
- b) remove fan

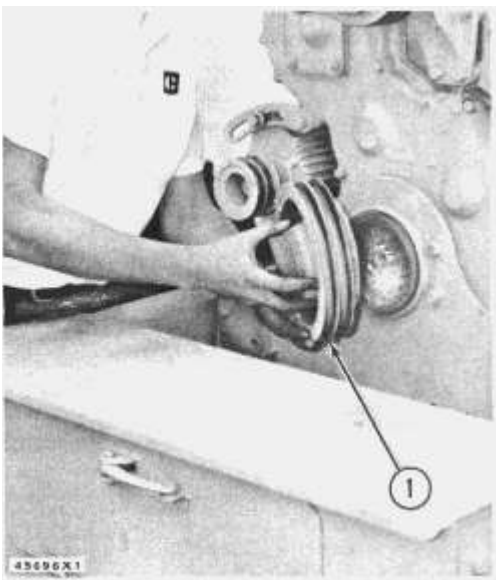


1. Remove fan belts (1).
2. Remove bolts (2) that hold vibration damper to pulley. Remove vibration damper (3).
3. Loosen the bolt (4) that holds pulley to crankshaft about 1/8 inch (3 mm).



4. Install tool setup (A) and loosen the pulley from crankshaft.
5. Remove the tool setup (A). Remove bolt (4), washer, and crankshaft pulley.

Install Vibration Damper And Crankshaft Pulley



1. Put the pulley (1) on the crankshaft. Install the bolt and washer. Tighten bolt to 230 ± 20 lb.ft. ($31,8 \pm 2,8$ mkg). Hit bolt with a hammer and again tighten to the above torque.
2. Put the vibration damper on pulley and install the bolts.
3. Install the fan belts. Make an adjustment of belts to have a deflection (movement) of 7/8" (22 mm) under 25 lb. (11,5 kg) force half way between pulleys.

end by:

- a) install fan
 - b) install radiator and guard
-

Product: MOTOR GRADER
Model: 120 MOTOR GRADER 10R
Configuration: 120 MOTOR GRADER 10R00001-02881 (MACHINE)

Disassembly and Assembly NO. 120 & NO. 140 ENGINE

Media Number -REG01268-00

Publication Date -01/01/1973

Date Updated -10/10/2001

Crankshaft Front Seal

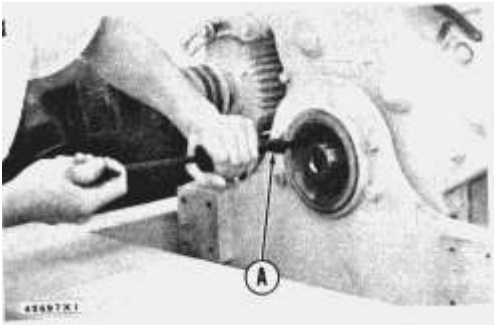
SMCS - 1160-11; 1160-12

Remove Crankshaft Front Seal

Tools Needed		A
1P3075	Seal Puller Group	1

start by:

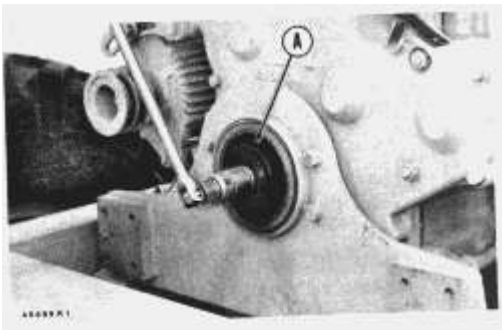
- a) remove vibration damper and crankshaft pulley



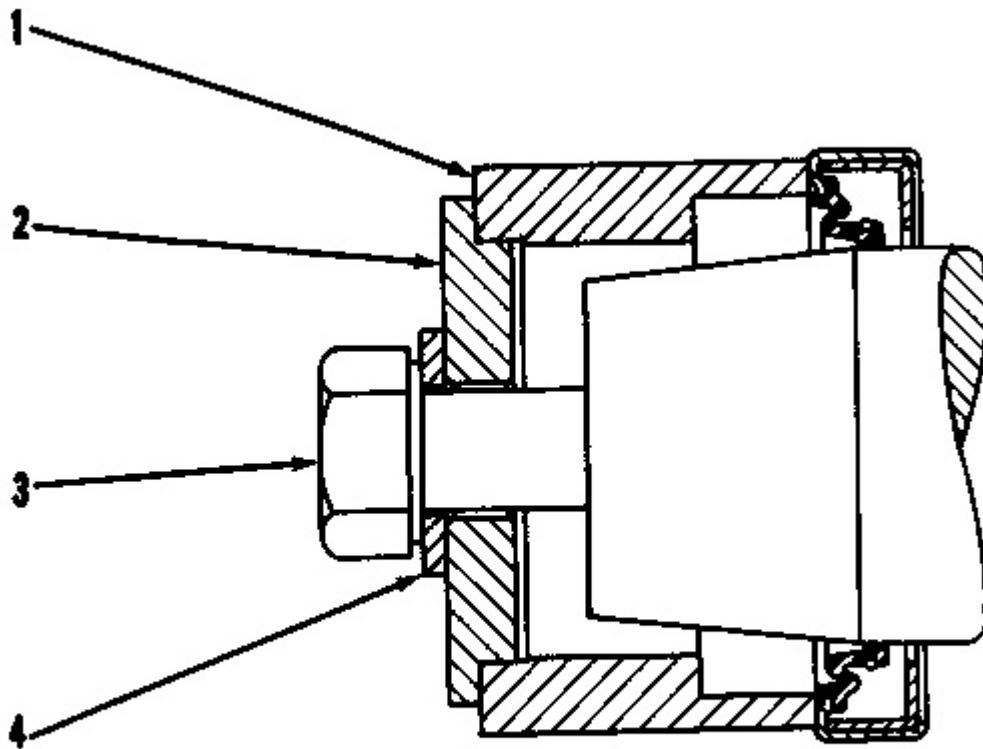
1. Remove the front seal of the crankshaft with puller group (A).

Install Crankshaft Front Seal

Tools Needed		A
9S8878	Seal Installer Ring	1
9S8879	Pusher Plate	1
6B5310	Bolt	1
4B4283	Washer	1



1. Use tool setup (A) to install the front seal of crankshaft as follows.
2. Put clean engine oil on the lip of seal and on outside diameter of crankshaft.
3. Put 8M8059 Loctite Sealant on outside diameter of seal.
4. Put the seal in position on crankshaft with lip of seal toward rear of engine.



28974X1

5. Put the seal installer ring (1) and pusher plate (2) in position on crankshaft.
6. Install bolt (3) and washer (4). Tighten bolt (3) until the seal is against the bottom of bore in timing gear cover.
7. Remove tool setup (A).

end by:

a) install vibration damper and crankshaft pulley

Product: MOTOR GRADER
Model: 120 MOTOR GRADER 10R
Configuration: 120 MOTOR GRADER 10R00001-02881 (MACHINE)

Disassembly and Assembly NO. 120 & NO. 140 ENGINE

Media Number -REG01268-00

Publication Date -01/01/1973

Date Updated -10/10/2001

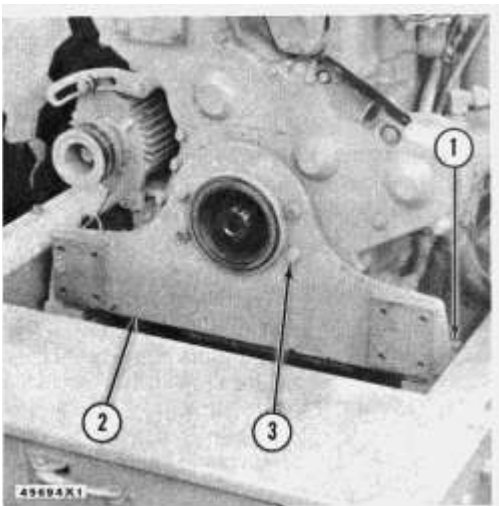
Engine Front Support

SMCS - 1153-11; 1153-12

Remove Engine Front Support

start by:

a) remove vibration damper and crankshaft pulley



1. Remove the four bolts (1) that hold front support to frame. Fasten a hoist and lift front of engine until weight is off front support.

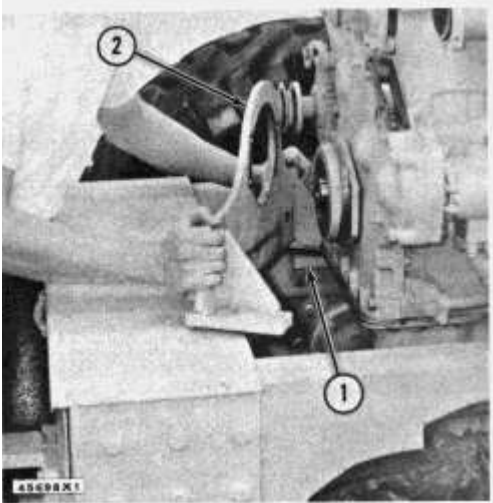
2. Put blocks under the engine at sides of cylinder block at oil pan plate. Lower the engine onto the blocks.

NOTICE

Do not use the oil pan as a support. Damage to the oil pan will result.

3. Remove the bolts (3) that hold support to bushing assembly. Remove the engine front support (2). Weight is 46 lb. (21 kg).
4. Keep the shims with their respective pad on frame for use at installation.

Install Engine Front Support



1. Put the shims on their respective pads (1) on frame.

NOTE: If a new engine front support is installed, it will be necessary to make alignment of engine to transmission case. See ENGINE ALIGNMENT IN DISASSEMBLY AND ASSEMBLY.

2. Put the front support (2) on bushing assembly. Install the four bolts that hold support to bushing.
3. Lower the front of engine until weight of engine is on support. Install the bolts that hold support to frame. Remove the blocks and hoist from engine.

end by:

- a) install vibration damper and crankshaft pulley
-

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com