



Customer Service Bulletin

Commercial Business Group

All machines with Kubota D1105 and D1105-T engines.

November 6, 2003

<u>Model No:</u>	<u>Serial Numbers:</u>	<u>Model No:</u>	<u>Serial Numbers:</u>
03200	90101-230009999	30241	210000101-230009999
03201	90101-230009999	30242	210000101-230009999
03540	80101-230009999	30626	210000101-230009999
03541	80101-210009999	30627	210000101-230009999
03543	80101-230009999	30630	210000101-230009999
03544	80101-230009999	30631	210000101-230009999
		30821	200000101-230009999

SUBJECT: Vibration in Traction Units with Kubota D1105 series engines.

SITUATION: There are various factors that may induce vibration in the D1105 engines, such as broken motor mounts, bent pulleys, and loose fasteners. The engine is externally balanced by the Fan Drive Pulley.

CORRECTION: When investigating vibration issues on products with a Kubota D1105 Series engine, start by checking the following components: motor mounts, fasteners, belt condition, pulleys, driveshaft, and coupler. The alignment of the Fan Drive Pulley (crankshaft pulley) to the front of the crankshaft (gear case side) should be inspected only after checking all external factors first. Remove the bolt and verify that the marks are in alignment. If after inspecting, the marks are found to be out of alignment, realign them. Then, retorque crankshaft end bolt to the Kubota Service Manual specifications listed in the table below. If you have questions regarding this issue, contact your Toro Distributor.

TIGHTENING TORQUES FOR CRANKSHAFT END BOLT

Engine Serial No	N•m	kgf•m	lbs-ft
(VA0001-YZ19999)	235 to 245	24 to 25	174 to 181
(1A0001 and above)	235 to 245	24 to 25	174 to 181

