



Number: TSB-FC -2015-033 Various machines, rear wheel hub cracking

Symptom: Rear wheel hub not rotating smoothly

Date: Sept. 8th, 2015

Urgency: Low

Author: Aaron Clark

Urgency:

☐

HIGH: Rework needs to be done immediately

☐

MEDIUM: Rework needs to be done by next possible occasion

☒

LOW: Rework to be done if necessary

☐

GENERAL: General information

SYMPTOM:

Rear wheel hub not rotating smoothly.

PRODUCTS:

ALL [Advenger 2800/2805, BR755, Advenger 3400/3405, BR855, Adgressor 2820, Adgressor 3220, BR850S, Adgressor 3520, Adgressor 3820, BR1050S, Advolution 2710, UHR 70-1700, ES4000, Focus II Rider, Scrubtec R6, VacRide, BRV900]

SYSTEM:

Wheel System– Non-traction

ISSUE:

Cracks develop around the inner bearing seat and may cause the hub to fracture around the bearing.

CAUSE:

During the injection molding process of the hub, air was not fully expelled from the mold allowing for inconsistencies in the material where cracks could develop.

PRODUCTION CORRECTIVE ACTIONS:

All inventory was inspected and suspect wheels were removed from inventory (Jan. 30th, 2015). The wheel hub mold was redesigned to improve molding process and prevent inconsistencies in the material from developing.

PRODUCTION SOLUTION IMPLEMENTATION DATE and / or SERIAL NUMBER:

First production machine with new mold used to create 56382693 installed as Standard equipment:

Implementation Shipping Date: March 1st, 2015



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FIELD CORRECTIVE ACTIONS: (All machines built prior to March 2015)

Inspect the wheel for signs of cracking under a good light source. Rotate fully and also inspect both sides.

Cracks found on the surface of the round face that do not extend over the hub radius are acceptable (Fig.1) and do not affect the strength of the hub. Hub replacement not necessary.

Cracks that continue over the radius and down the verticle face are not acceptable and should be replaced. (Fig.2 & 3). Any parts with open cracks (Fig.3) should be replaced.

SPARE PARTS or Kits Needed:

56382693 WHEEL replace if cracks found similar to Fig.2 or Fig.3 . **.75 hrs. is allowed to preform this repair**

COMPONENT LOCATIONS / PICTURES:



Fig.1

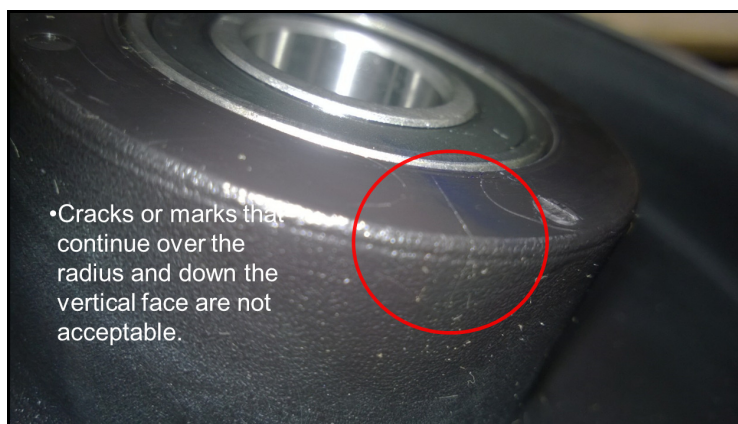


Fig.2



Fig.3