

## SERVICE BULLETIN

EOS engine

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|                                 |                           |                    |
|---------------------------------|---------------------------|--------------------|
| date of release                 | .Nov. 2018                | issue 1, #1118_1_m |
| for engine type / applicability | all engines EOS 150 (ICI) |                    |
| status                          | <b>mandatory</b>          | optional           |

### Introduction

So far two cases have been reported where the mount bracket of the drive wheel has failed. One time due to the use of a non from us recommended propeller type (3-blade propeller) where due to date it is unknown if the used propeller had a unbalanced condition and therefore extensive vibrations occurred or whatever else has happened. Another time where it was reported to us that the pilot had a crash landing and possible prop strike. The following picture showing the damage of the bracket;



In case of a crash and/or prop strike, the bracket could fail instantly and brake apart into 2 pieces or brake partly as shown. In case of continuous and extensive vibrations due to propeller imbalance the damage can occur in steps where a crack starts to appear between the upper M8 bolts and in consequence continuing to brake the left and right reinforcement walls.

### Applicability

All engines - EOS 150 (ICI)

### Action

Before any new engine operation whether on ground or for flight it is imperative to check

this subject mount bracket of the drive wheel if it is showing any similar damage, crack or damage whatsoever.

The time being we see no need of advice to change the subject bracket to new if no damage is visibly. Due to reports about engines with numerous hours of operation (>50h, >100h, >150h) where the brackets do not show any damage and/or weakness, we see no general design or material failure of the subject part.

#### Procedure and parts availability

In case a same or similar damage will be detected we advice the engine owner to contact with EOS engine for further procedure and change of the bracket to new.