



Nilfisk TECHNICAL SERVICE BULLETIN

Number: TSB-FC-2017-053 Abnormal acceleration/deceleration

Symptom: Unresponsive, intermittent or unexpected acceleration/deceleration when activating the foot pedal

Date: Aug. 3rd, 2017

Urgency: Low

Author: Aaron Clark

Urgency:



LOW: Rework to be done if necessary

SYMPTOM:

Unresponsive, intermittent or unexpected acceleration/deceleration when activating the foot pedal

PRODUCTS:

CS7000

SC6500

SC6000

Adgressor

Advenger

ES4000

SYSTEM:

Traction System– Drive Pedal

ISSUE:

The drive motor controller is receiving an inconsistent electrical command signal from the foot pedal potentiometer

CAUSE:

Mechanical misalignment within the potentiometer causing the wiper to inconsistently pass over the resistive element. The potentiometer produces an inconsistent electrical signal to the drive controller resulting in potential unintended acceleration/deceleration or loss of electrical neutral. Defective potentiometers with noisy electrical output may be only identified using precision time-based voltage measuring equipment and is not possible using a typical volt ohm meter.



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ECO / ODM #:

A-12906

PRODUCTION CORRECTIVE ACTIONS:

A new FOOT PEDAL ASSEMBLY is now being used in production that includes a shim to better align the potentiometer to the pivoting shaft.

PRODUCTION SOLUTION IMPLEMENTATION DATE and / or SERIAL NUMBER:

First production machine with new FOOT PEDAL ASSEMBLY installed as Standard equipment:

Model	Serial number	Implementation Shipping Date
CS7000	1000064982	May 30h, 2017
SC6500	1000064994	May 25th, 2017
SC6000	3510171905905	May 19th, 2017
Adgressor	1000064886	May 30th, 2017
Advenger	4000141129	July 6th, 2017
ES4000	TBD	July 6th, 2017

Table 1

Number: TSB-FC-2017-053 Abnormal acceleration/deceleration

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FIELD CORRECTIVE ACTIONS: (All machines built prior to Serial Number - See Table 1)

Replace the existing FOOT PEDAL ASSEMBLY with one the new ones that has a shim. Please see photos below to identify the what has changed. See SPARE PARTS or Kits Needed below to identify the correct replacement part number for the specific model.

SPARE PARTS or Kits Needed:

56385084 FOOT PEDAL ASSEMBLY (CS7000, SC6500, Adgressor, Advenger, ES40000)

56118157 FOOT PEDAL ASSEMBLY (SC6000)



Potentiometer Without Shim



Potentiometer With Shim