Nilfisk TECHNICAL SERVICE BULLETIN

Number:	TSB-FC-2020-011
Symptom:	SC6500 UVW Drive motor cables
Date:	22 June 2020
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Urgency: **MEDIUM:** Rework to be done on next possible occasion

Before performing any service ensure safety precautions are followed! Disconnect any applicable power systems. Use of a personal grounding strap is strongly recommended when working with any electrical system.

Symptom:	Loss of drive - Error code 03
Products:	All SC6500 models
System:	Drive System
Related TFR:	20190712-004

ISSUE:

Poor connection between the Speed Control (E4) and the Wheel Drive Motor (M11) where the wires connect to the drive motor. The Traction Harness may be damaged near the UVW Terminal Block on the Wheel Drive Motor. The UVW Terminal Block may also be damaged. *See* [Fig. 1].

The damage to the traction motor harness and/or the terminal block is due to excessive heat. The excessive heat is caused from the increased resistance at the terminal block due to loose connection(s).

CAUSE:

Engineering design does not specify torque specification for the U-V-W fasteners.

Fig. 1

PRODUCTION CORRECTIVE ACTIONS:

The tightening torque of the nuts securing the U, V & W wires at the motor terminals has been increased to **11 Nm (96 in/lbs)** to prevent the terminals from loosening.

PRODUCTION SOLUTION IMPLEMENTATION DATE and/or SERIAL NUMBER:

First production machine with new higher torque as Standard equipment:

Implementation Shipping Date: week of 06-MAY-2020

Serial Number: 1000070506

FIELD CORRECTIVE ACTIONS:

Remove the terminal cover from the Wheel Drive Motor to inspect the connections at the drive wheel motor. Remove the U, V, & W wires from the terminals and inspect the individual wires, terminals and terminal block for signs of damage from overheating. Replace any damaged components as necessary. Route cables as shown Fig.2

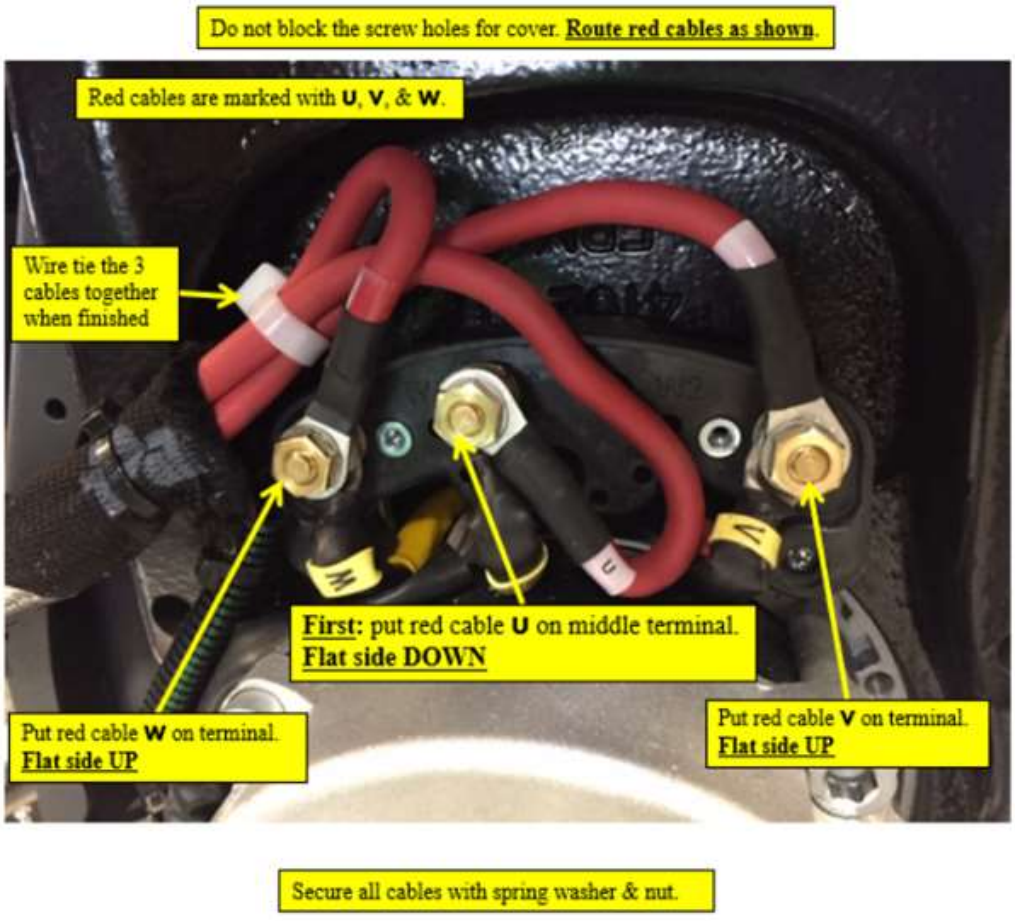

Fig. 2

SPARE PARTS or KITS NEEDED:

56384713 TRACTION HARNESS KIT ; to replace a damaged traction harness.

56414198 WHEEL-DRIVE-AC ; if the terminal block is damaged and can no longer secure the terminals.