MCMILLAN SPEED SENSOR REMOVAL / REPLACEMENT INSTRUCTIONS

INTRODUCTION: This document should be used for replacing speed sensors on McMillan drive motors

TOOLS REQUIRED

- ¼" & 7/16" standard sockets
- 3/8" ratchet w/ 2" extension
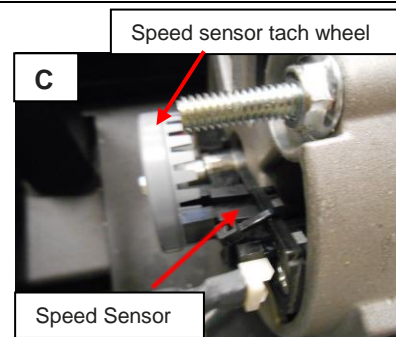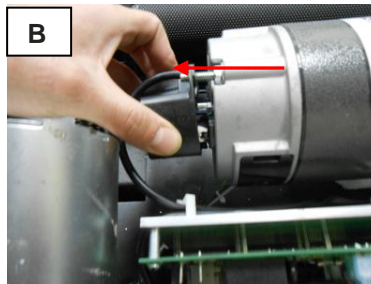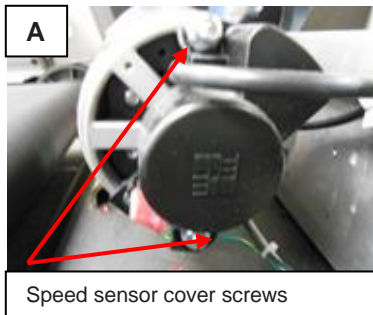- Small flat head screw driver

ACTIVITY PROCESS

1. UNPLUG TREADMILL FROM WALL OUTLET

2. UNPLUG SPEED SENSOR

Depress the clip on the speed sensor connector and pull it away from the motor control board.
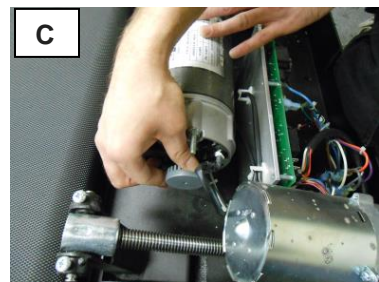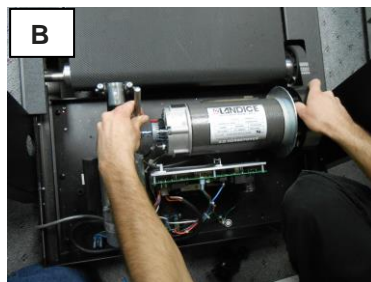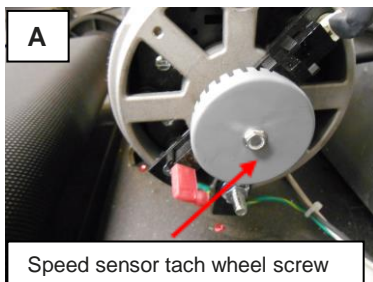
3. REMOVE SPEED SENSOR COVER

A — Speed sensor cover screws

B

C — Speed sensor tach wheel / Speed Sensor

a) Remove the two screws holding the sensor cover using 7/16" socket, 2" extension and 3/8" ratchet. (Figure A)
b) Slide the speed sensor cover off the end of the drive motor. (Figure B)
c) Once cover is removed you will see the speed sensor components. (Figure C)

4. REMOVE SPEED SENSOR TACH WHEEL

A — Speed sensor tach wheel screw

B

C

a) Locate the speed sensor tach wheel screw (Figure A)
b) Hold the flywheel with one hand and remove the tach wheel screw using a ¼" socket and 3/8" ratchet (Figure B)
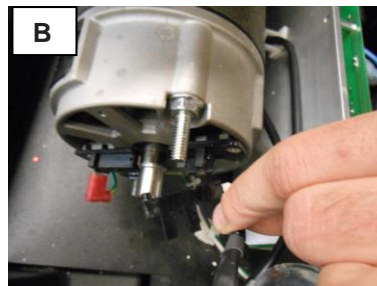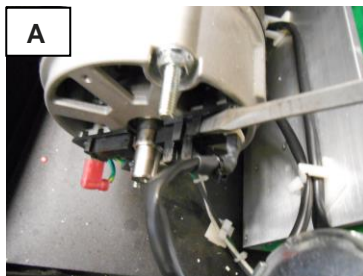c) Slide the speed sensor tach wheel off the shaft of the drive motor (Figure C)

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SERVICE TIP:
Take the speed sensor cover screws,
tach wheel screw, and tach wheel and place inside
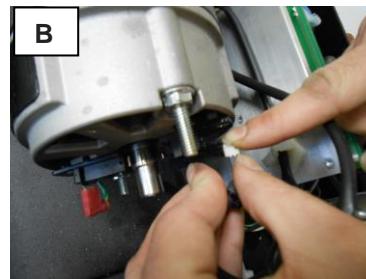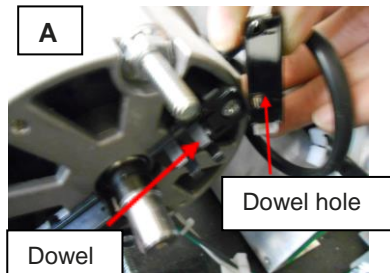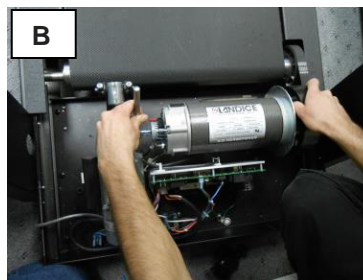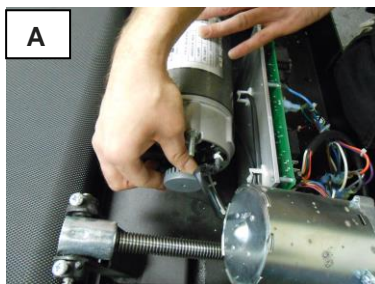speed sensor cover so the hardware isn't misplaced.

5. REMOVE SPEED SENSOR

a) Insert small, flat head screwdriver in between the sensor and holding clips (Figure A)
b) Pull the sensor out of the holding clip (Figure B)
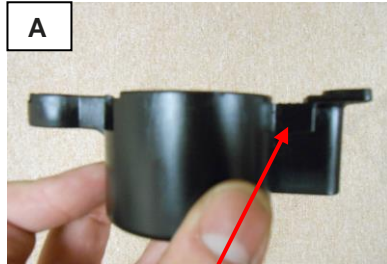
6. INSTALL SPEED SENSOR

Dowel hole

Dowel

a) Line up dowel hold on the new speed sensor to the dowel on speed sensor holding clip. (Figure A)
b) Insert the sensor into the holding clip and snap into place. (Figure B)
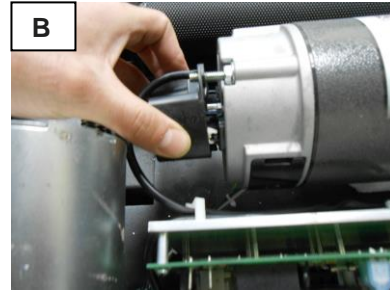
7. INSTALL SPEED SENSOR TACH WHEEL

a) Slide the speed sensor tach wheel onto the drive motor shaft. (Figure A)
b) Insert the speed sensor tach wheel screw and tighten it down using ¼" socket and 3/8" ratchet. (Figure B)
NOTE: YOU WILL HAVE TO HOLD THE FLYWHEEL IN PLACE WHEN TIGHTENING THE SCREW FOR TACH WHEEL

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8. INSTALL SPEED SENSOR COVER

A

Notch for speed sensor harness

B

C

a) Locate the notch on the speed sensor cover. (Figure A)
b) Line up the speed sensor harness with the notch on the cover and slide the cover back on. (Figure B)
c) Install and tighten the speed sensor cover screws using 7/16" socket, 3/8" ratchet and 2" extension. (Figure C)

9. CONNECT SPEED SENSOR HARNESS

Re-connect the speed sensor to the motor control board.