

Installation Guide

Installation Kit: 911-6120-10



<u>Case</u>		<u>Case IH</u>
770	1370	2094
870	1570	2294
970	2090	2394
1070	2290	2594
1170	2390	3294
1175	2590	3394
1270		3594

Introduction

The procedures outlined in this guide provide the basic installation procedure for the ESi² on the machines specified on the front cover of this guide. If you do not see your machine listed, contact customer support for further instruction. The kit components and corresponding install instructions are designated for each applicable machine make and model and may not be used on undesignated machine models.

Review Installation Kit Contents

Kit contents are outlined in the ESi² installation section on pages 6 and 7. Read all applicable installation instructions for your machine's model and ensure that all required kit components are present before beginning the installation.

NOTE: Due to manufacturing processes outside of Outback Guidance's control, the installer may have to adapt this kit to your distinct situation.

Read and Follow All Safety Messages

- Refer to the safety manual for the machine that the ESi² is being installed on for operating age and precautions.
- Prior to installing and operating the ESi², read and understand all safety precautions as outlined in this guide
- Store this guide and all related safety information with related machine manuals for future reference.

Safety Information and Warnings*

- ESi² is NOT designed to replace the machine's operator and is designed as a driving aid for use in precision agriculture applications.
- ESi² is NOT intended for use on roadways and should remain disengaged at all times when traveling on roadways.
- ESi² does NOT control the speed of the machine and a human operator is required to manually maintain a safe operating speed.
- ESi² does NOT avoid obstacles. To prevent human, machine and property injury a human operator is required to operate the machine at all times.
- Do NOT allow anyone to operate without instructions.
- At all times the driver is fully responsible for the safe operation of the vehicle.

* The safety warnings contained in this installation guide are not meant to be an exhaustive list of potential hazards.

Introduction

- To ensure peak performance, ESi² should only be installed after a thorough machine inspection has been conducted. The contents of this kit and ESi² are not intended to replace preventative and or needed maintenance. To avoid bodily and machine injury, follow the machine preparation checklist below:
 - ⇒ Inspect steering linkage: Machine should drive in a straight line without manual correction
 - ⇒ Turn off machine and power-off all electronic gauges, monitors and external devices when installing or performing maintenance on the ESi²
 - ⇒ Park machine on a clean and level surface
 - ⇒ Lower all implements and headers to the ground
 - ⇒ Apply the parking break and chock wheels
 - ⇒ Inspect any drilling and/or cutting sites to ensure no electrical wiring damage will be incurred

Supported Steering Columns

This installation guide covers several different steering column styles. The installation pictures on the following pages may vary slightly from your specific column.

Case 90 series 2wd tractor



Case IH 94 series 2WD/MFWD tractor



Case 70 series 2WD tractor



Machine Preparation

Remove the steering wheel center cap and the nut holding the telescoping actuator knob on the shaft

Remove the telescoping actuator knob to gain access to the nut that holds the steering wheel onto the shaft.

Remove and **SAVE** this nut as it will be used later in this installation.

Following the manufacturer's recommended procedure remove the steering wheel.

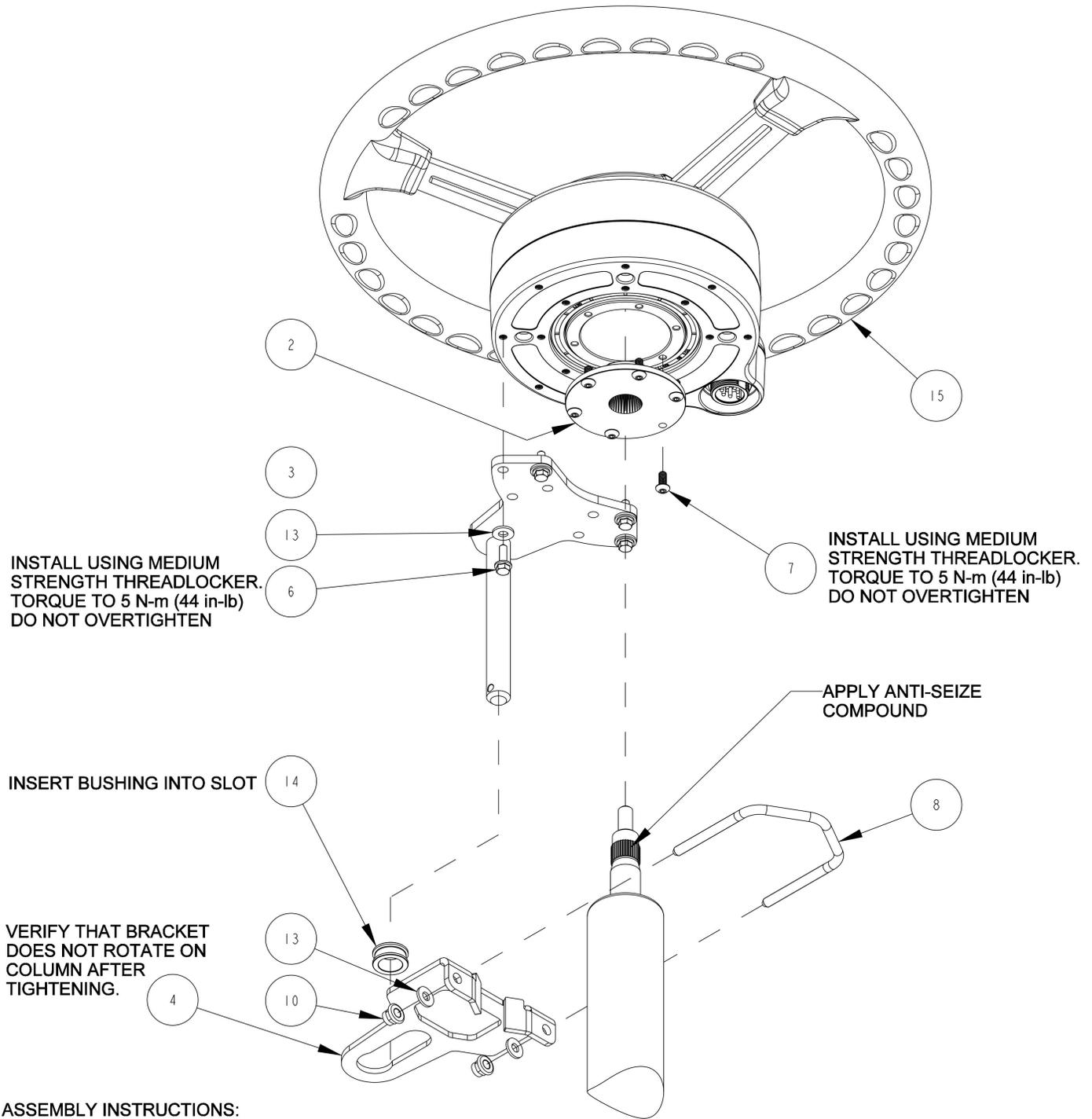


NOTE: Consult your equipment dealer if you are unsure of the correct procedure for removing the steering wheel.

Steering column ready for ESi2 installation



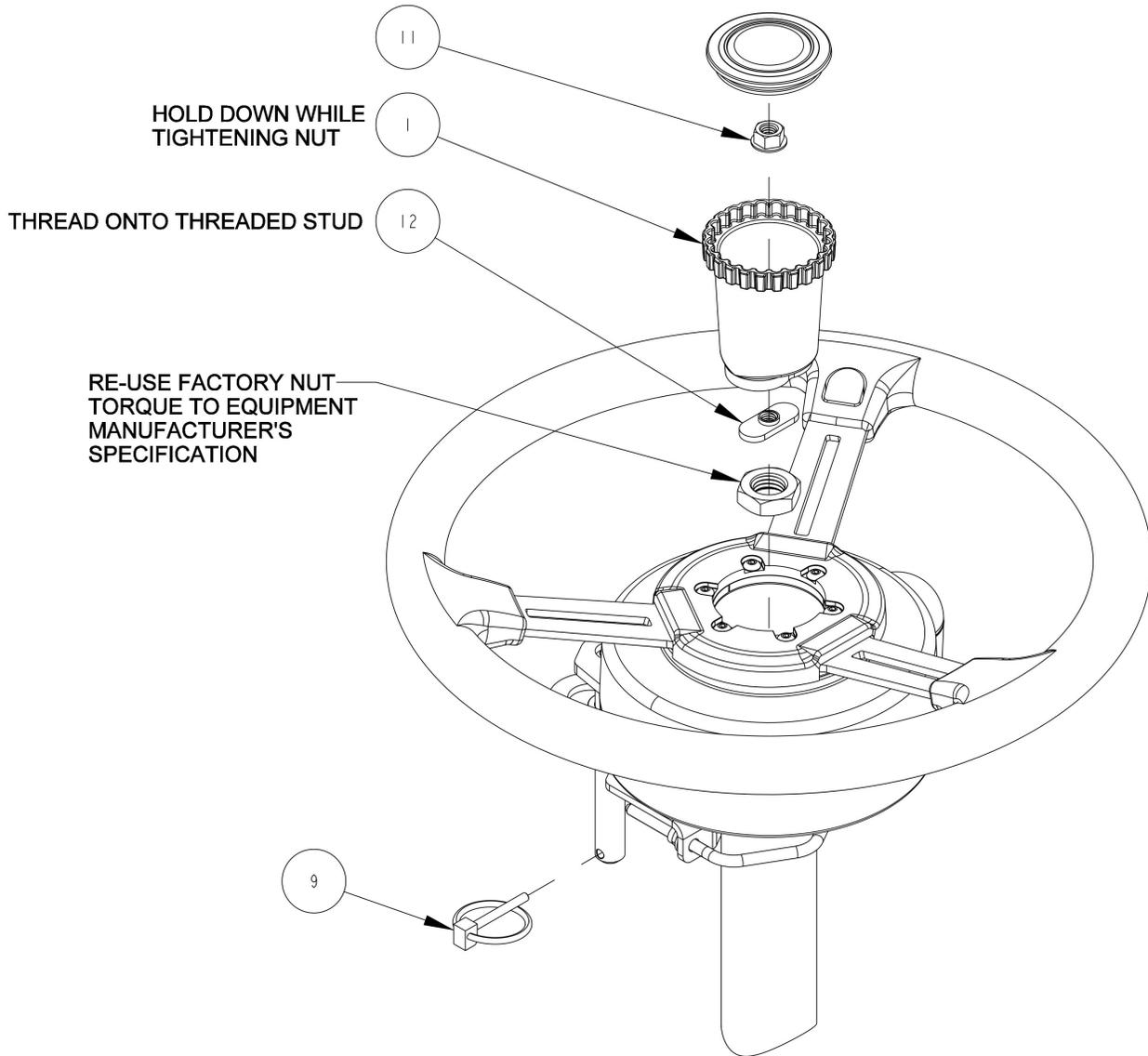
ESi² Installation



ASSEMBLY INSTRUCTIONS:

1. PRE-ASSEMBLE SPLINE ADAPTER AND T-BAR TO WHEEL MOTOR.
2. ASSEMBLE BRACKET AND CLAMP TO STEERING COLUMN. BRACKET, T-BAR, AND WHEEL MOTOR ORIENTATION MAY VARY TO FIT YOUR APPLICATION.
3. INSERT BUSHING INTO SLOT IN BRACKET.
4. PLACE ASSEMBLY ON STEERING SHAFT AND RE-INSTALL STEERING SHAFT NUT.
5. INSTALL TELESCOPING KNOB COMPONENTS.
6. INSTALL RETAINING PIN IN T-BAR.

ESi² Installation



ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES
1	1	600-1486-01	TELESCOPING ACTUATOR KNOB	
2	1	604-0074-10	SPLINE ADAPTER- ESI2, 36T x .875 MAJOR x .180/.870 OFFSET	
3	1	640-0187-10	BRKT, T-BAR, EXTENDED, ESI2	
4	1	640-0195-10	BRKT, ESI2, V-CLAMP, EXTENDED, 1.75-3.00 DIA	
5	1	675-0126-000	LOCTITE 242 MEDIUM STRENGTH THREADLOCKER	NOT SHOWN
6	4	675-1348-10	SCREW, M5-0.8 X 16mm, HEX FLANGE	
7	6	675-1351-10	SCREW, M5-0.8 X 12mm, BUTTON HEAD	
8	1	675-2084-01	V-BOLT	
9	1	676-0037-000	RETAINING PIN	
10	2	676-1089-000	LOCKNUT, M6X1.0	
11	1	676-1109-10	NUT, HEX, FLANGE, 3/8-16, ZP	
12	1	676-1110-10	NUT, WELD, DOUBLE TAB, 3/8-16	
13	6	678-1148-10	WASHER, #12 SAE .250 ID X .562 OD	
14	1	699-0027-01	BUSHING, SPHERICAL	
15	1	910-4024-10	ESI2 ELECTRIC STEERING WHEEL	

ESi² Installation Completed

ESi² wheel successfully installed



Install Completion Checklist

- Ensure steering wheel turns freely and anti-rotation brackets do not contact the spline adapter.
- Check, and if needed, tighten anti-rotation brackets to eliminate excess movement. Loose anti-rotation brackets can cause poor steering performance.
- For steering ECU installation instructions please refer to the ECU installation guide that came with your installation kit.