

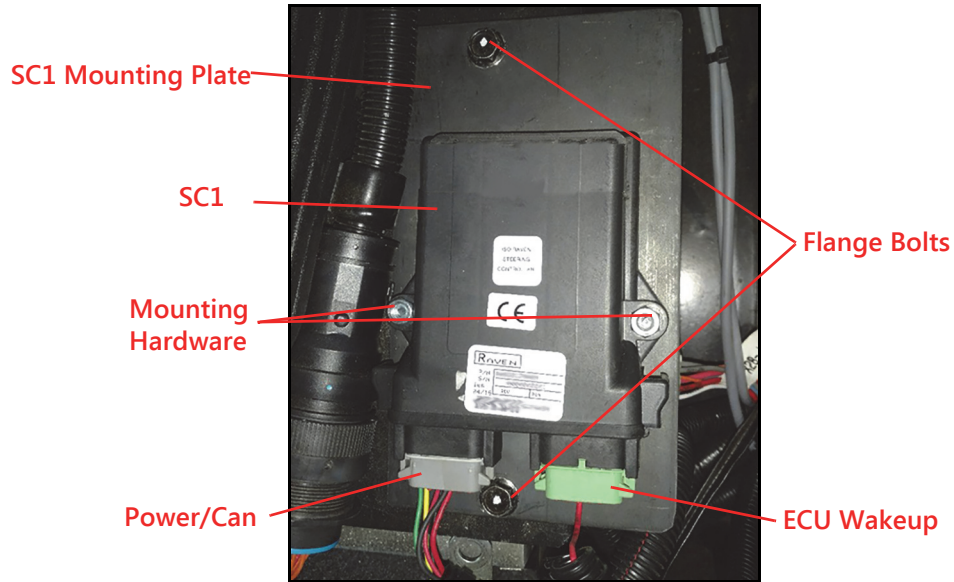
SC1 TERRAGATOR B SERIES INSTALLATION GUIDE

1. If SmarTrax™ is already installed on the machine, disconnect the SmarTrax ECU.

NOTE: Some of the SmarTrax cabling will need to be removed to install the SC1.

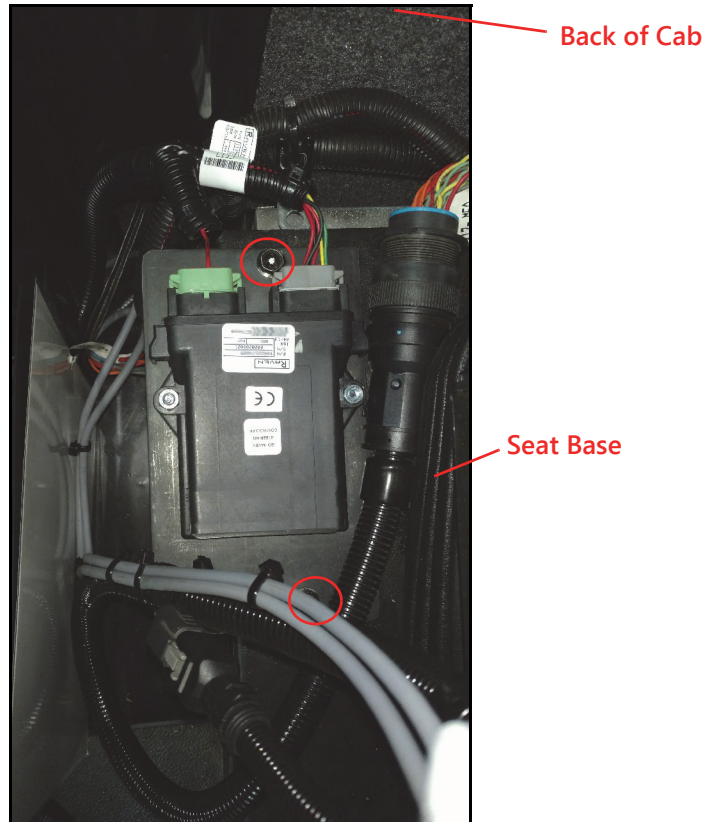
2. Install the SC1 (P/N 063-0174-009) on the mounting plate studs so the connectors are facing the short side of the SC1 mounting plate. Secure using the provided 1/4 - 20 nuts.

FIGURE 1. SC1 Mounting



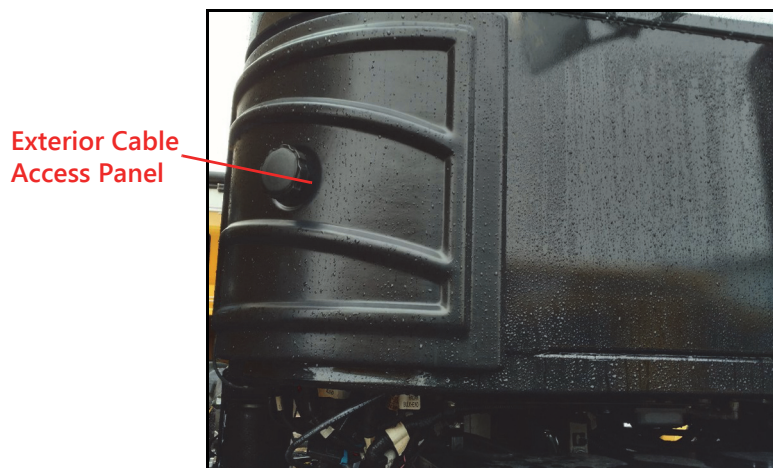
3. Locate the SC1 mounting location on the right side of the seat base.

FIGURE 2. SC1 Mounting Location



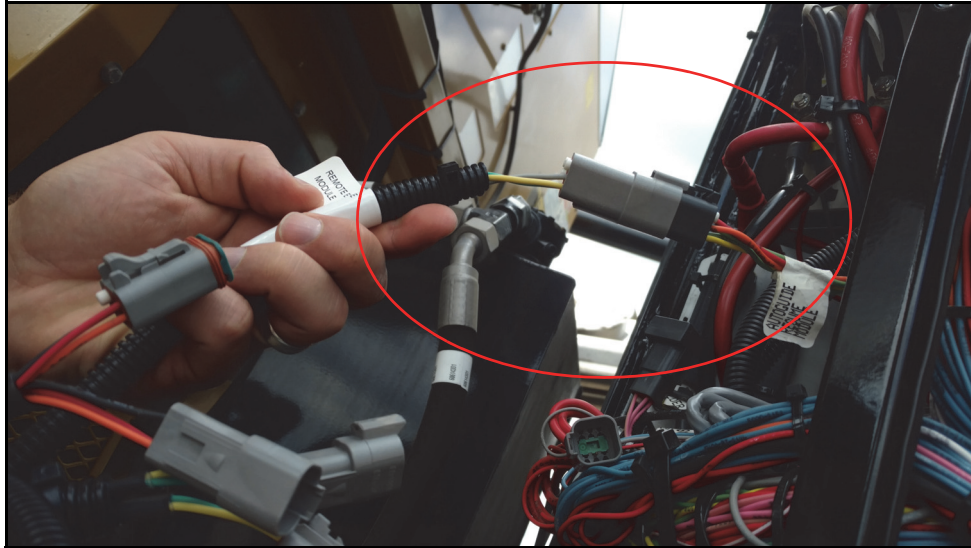
4. Remove the two flange bolts on the right side of the seat base.
5. Install the SC1 Bracket using the flange bolts removed in the previous step.
6. On the SC1 cable (P/N 115-0172-531), plug the gray power/can plug into mating receptacle on the SC1.
7. Plug the green ECU wakeup plug into the mating connector on the SC1.
8. On the outside of the cab, remove the exterior cable access panel.

FIGURE 3. Exterior Cable Access Panel



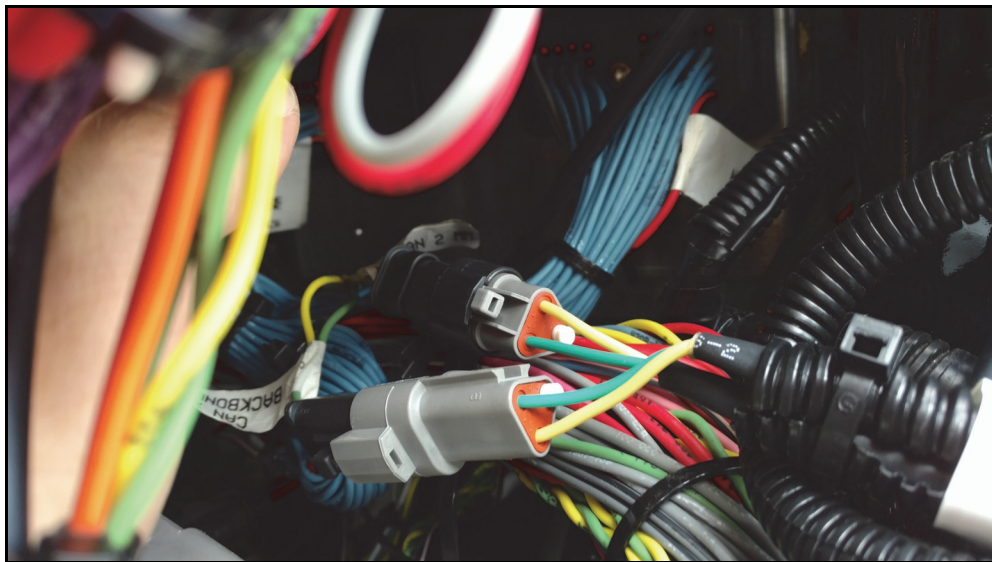
9. Feed the remaining ends of the SC1 Cable (P/N 115-0172-531) into the right-rear enclosure of the cab.
10. Disconnect the AUTOGUIDE RESUME MODULE connection and plug it into the REMOTE ENGAGE MODULE receptacle on the SC1 Cable.

FIGURE 4. REMOTE ENGAGE MODULE Connection



11. Plug the 3-pin receptacle on the SC1 Cable to the mating CAN BACKBONE plug on the machine's harness.

FIGURE 5. CAN Connections



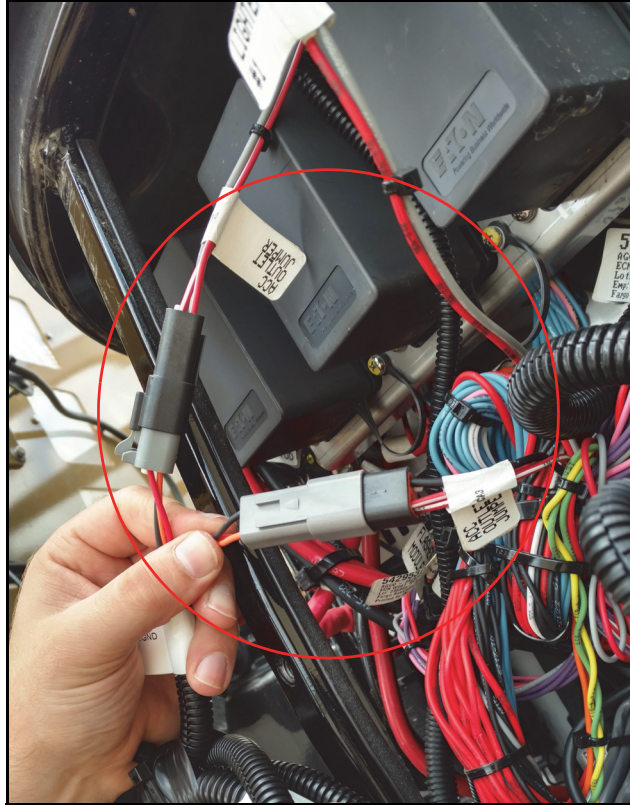
12. Connect the 3-pin plug on the SC1 cable to the CAN 2MM receptacle on the machine's harness.
13. Disconnect the machine's existing INTERNAL GPS RECEIVER OUTPUT plug and connect it to the 6-pin receptacle on the SC1 cable.

FIGURE 6. INTERNAL GPS RECEIVER OUTPUT Connection



14. Connect the machine's ACC OUTLET JUMPER plug to the receptacle on the PWR AND GND tee on the SC1 cable.

FIGURE 7. ACC OUTLET JUMPER Plug



15. Connect the machine's ACC OUTLET JUMPER receptacle to the plug on the PWR AND GND tee on the SC1 cable.
16. Neatly secure cabling.
17. Reinstall the access panel(s).

MODEL YEAR 15 ISO CONNECTION

1. Route the ISObus tee cable (P/N 115-0172-481) to the back of the Viper 4 and connect it to the ISO port on the back of the field computer.
2. Connect the other end of the ISObus tee cable to the machine's mating ISObus CAN diagnostic port located near the floor on the right side of the machine.

FIGURE 8. ISObus Tee Cable in Diagnostic Port



ISObus Tee Cable

MODEL YEAR 16 AND NEWER MACHINE ISO CONNECTION.

1. Locate the ISO harness at the back of the Viper 4.

FIGURE 9. ISO Harness



2. Ensure the round ISO connector is plugged into the back of the Viper 4.

FIGURE 10. Connection on Back of Viper 4



3. Ensure the two 2-pin Deutsch ISO CAN connectors on the Viper 4 ISO CAN harness are connected to each other and are not plugged into dust caps.

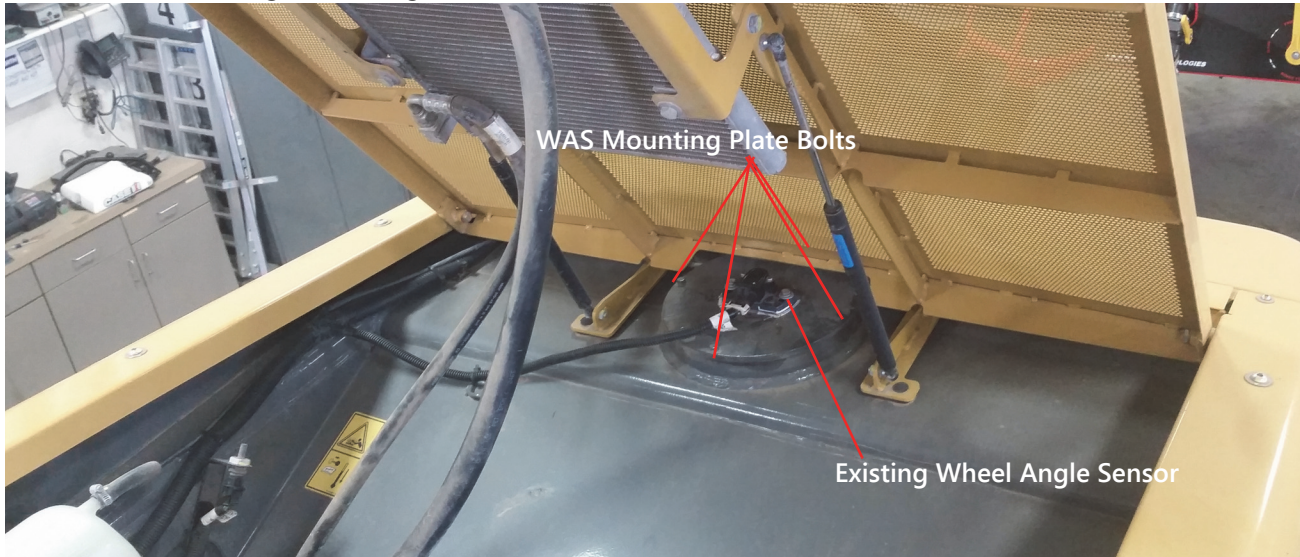
FIGURE 11. 2-Pin Deutsch Connectors



REPLACEMENT WHEEL ANGLE SENSOR INSTALLATION (TERRAGATOR 7300/8300/9300B ONLY)

1. Verify the machine is parked with the front wheel pointing straight ahead.
2. Locate and remove the machines existing Wheel Angle Sensor (WAS).

FIGURE 12. Existing Wheel Angle Sensor



3. Remove the four bolts securing the WAS mounting plate to the machine.
4. Remove the OEM WAS shaft and replace it with the provided WAS shaft (P/N 019-519-622). Do not tighten the jam nut at this time.

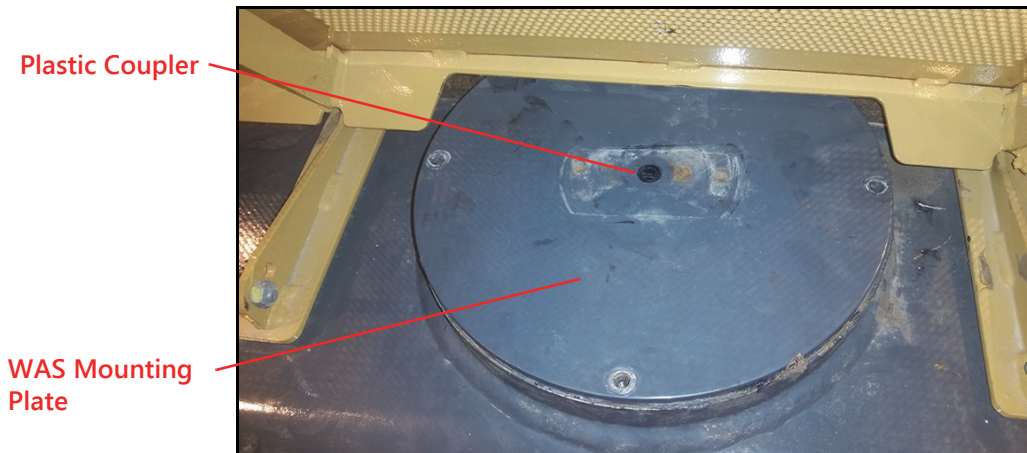
NOTE: One of the flat faces on the square stub must face directly towards the cab.

FIGURE 13. Installed WAS Shaft



5. Install the plastic coupler (P/N 307-0159-419) onto the square stub with the flat of the D-profile facing rearward, towards the cab.
6. Temporarily reinstall the WAS mounting plate. The top of the plastic coupler should be flush, or slightly above, the round plate.

FIGURE 14. Plastic Coupler on WAS Mounting Plate

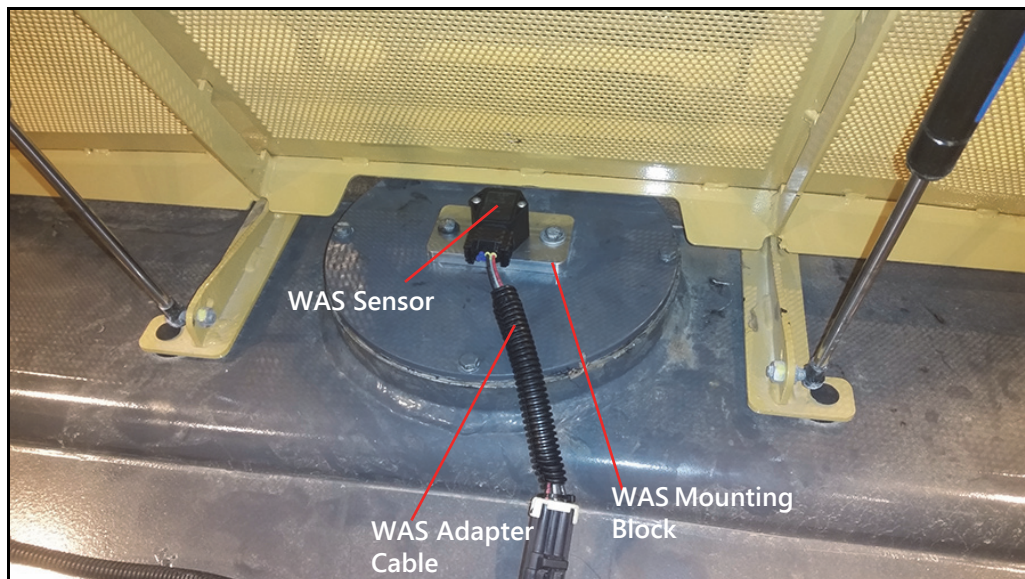


7. If necessary, adjust the WAS shaft to obtain the correct plastic coupler height. After the plastic coupler is the right height, tighten the jam nut.

NOTE: Ensure the flat on the D-shaft is still facing the cab, after height adjustment.

8. Reinstall and tighten the four bolts securing the large round plate.
9. Install the new WAS with the mounting block onto the machine. Verify that the flat on the D-shaft of the sensor is pointed towards the electrical connector and towards the rear of the machine.
10. Use the provided #6 - 32 x 1.25" machine screws to attach the WAS to the mounting block. Reuse the OEM fasteners to attach the mounting block to the WAS mounting plate.

FIGURE 15. Completed WAS Installation



11. Tighten all mounting hardware.
12. Connect the WAS Adapter Cable (P/N 115-4010-054) between the machine's WAS harness and the sensor.

NOTE: When performing the initial SC1 WAS calibration, verify that the voltage reported by the sensor changes value all the way to both the left and right locks.

OPERATION

Refer to the SC1 Calibration and Operation Manual (P/N 016-4010-005) for instructions on configuring, calibrating, and operating SC1. Please note the location of the master switch and the resume button on the machine since they are needed for operation.

FIGURE 16. Master Switch and Foot Pedal

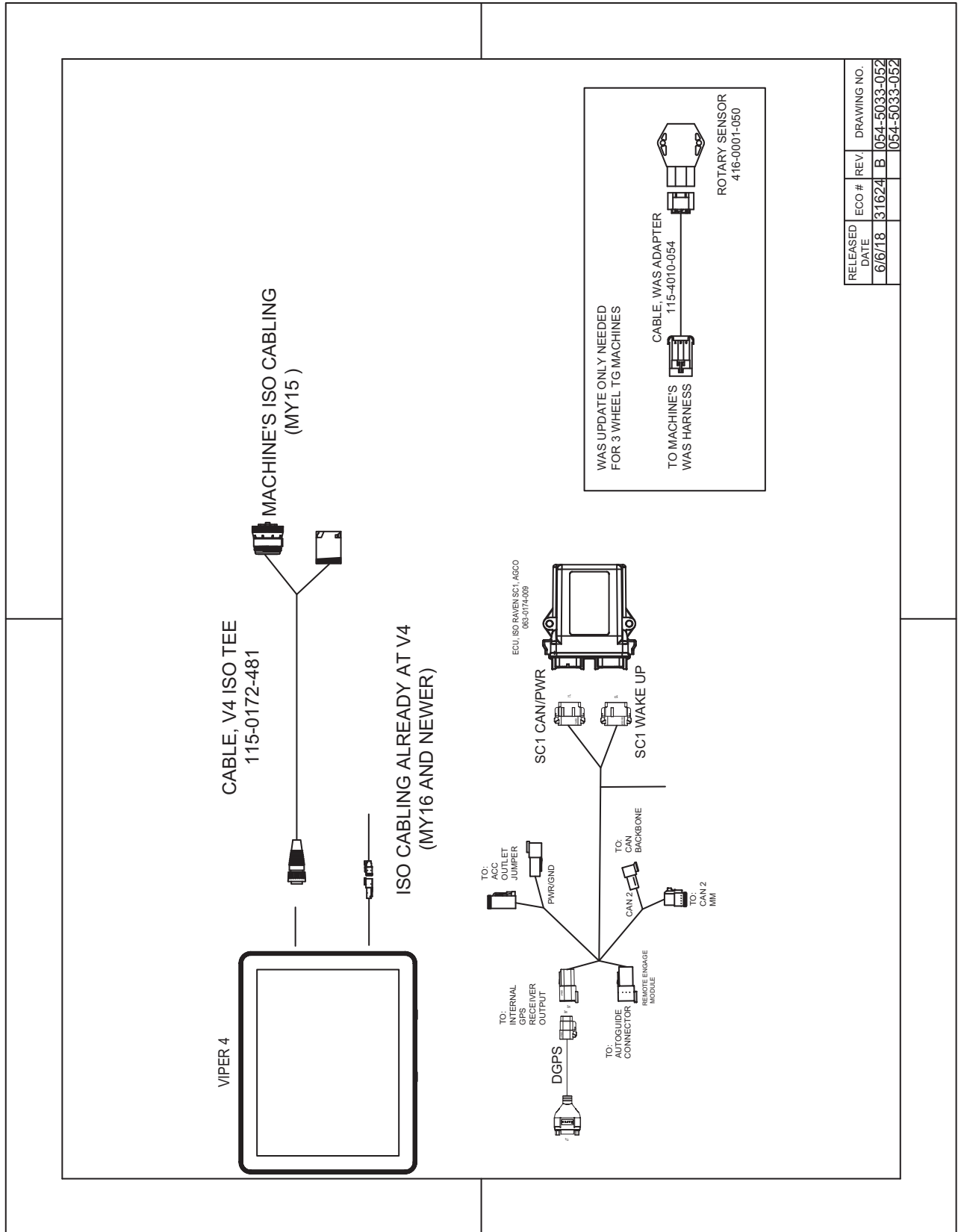
Master Switch



Resume Button



SYSTEM DIAGRAM



RELEASED DATE	ECO #	REV.	DRAWING NO.
6/6/18	31624	B	054-5033-052
			054-5033-052

