

BOURGault

X30 Apollo | System



INGENUITY.

SIMPLICITY.

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 **TOPCON**
Precision Agriculture

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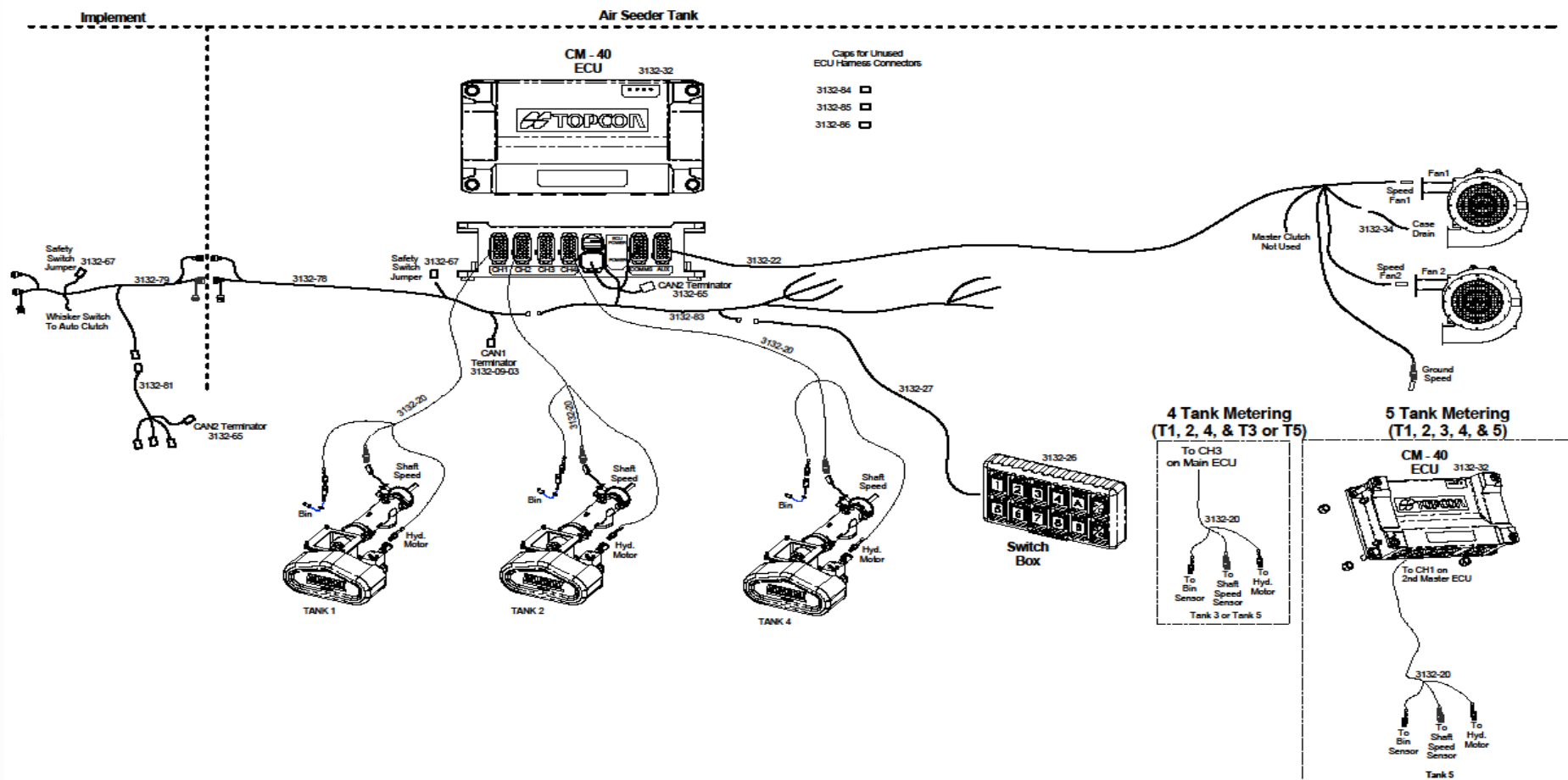


X30 System Components

7000 Series TBH

Tank







Main Tank Harness

Part # 3132-78

Topcon #1004998-01



Jumper needs to be connected or communication problems will be experienced

Safety switch And whisker not used

ISO Terminator needs to be connected (3132-09-03)

Connectors hook to the rear plate of the tillage machine.

Hooks to the breakout harness (3132-83)



Breakout Harness

Part # 3132-83

Topcon # 1005038-01

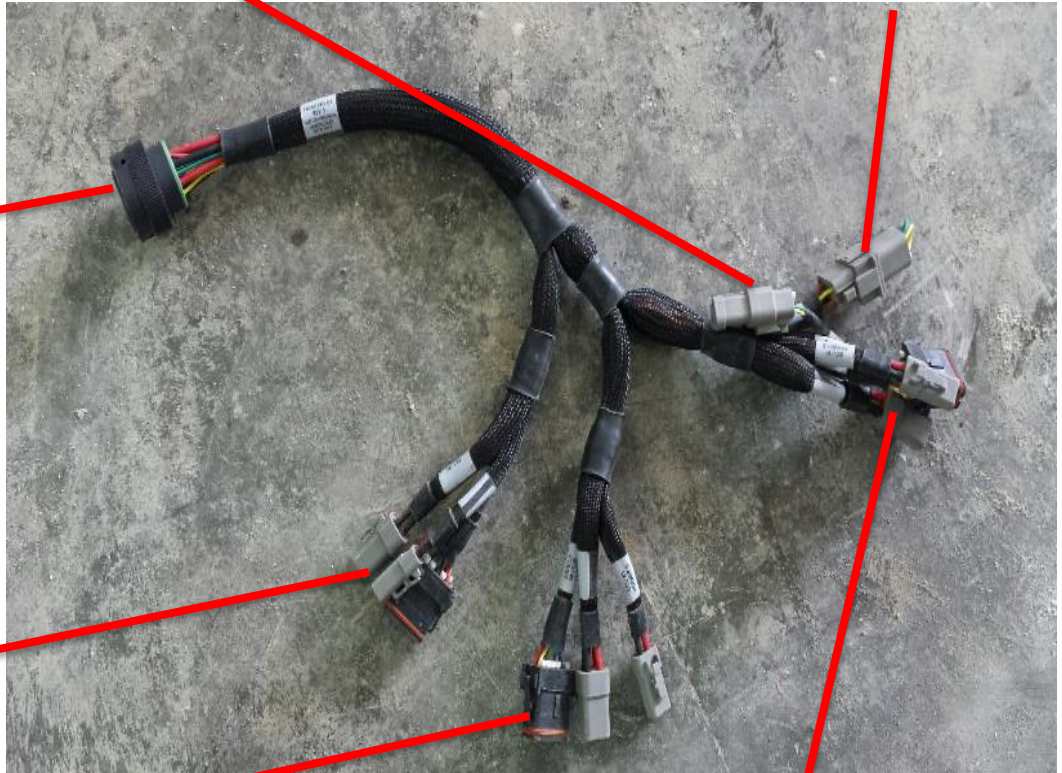
Hooks to main tank harness.

If the tank has more than four tank metering you require another Master ECU and the ECU 2 plugs on the harness will connect into it.

If sectional control is added then another I/O ECU is needed, then the ECU3 plugs on the harness will connect to it.

Can 2 should have a terminator plug on it

Keypad: hooks to the extension harness (3132-27) that goes to the calibration keypad



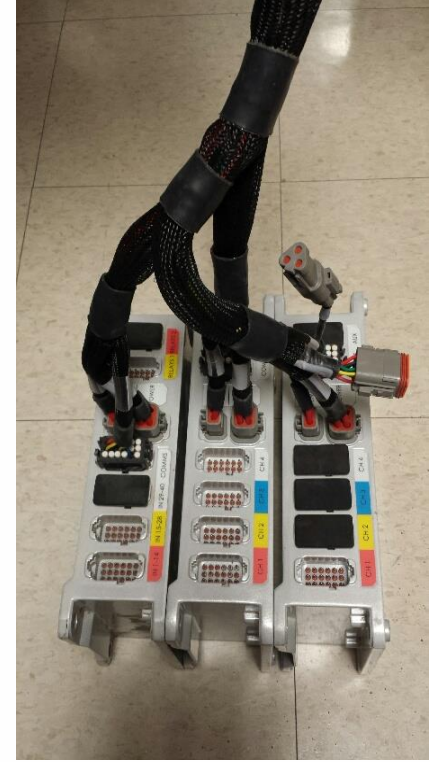
Three connection Comms, power A, and Power B hook to the Master ECU.



One Master ECU configured for 4 tank metering. No sectional control or NH3 or liquid



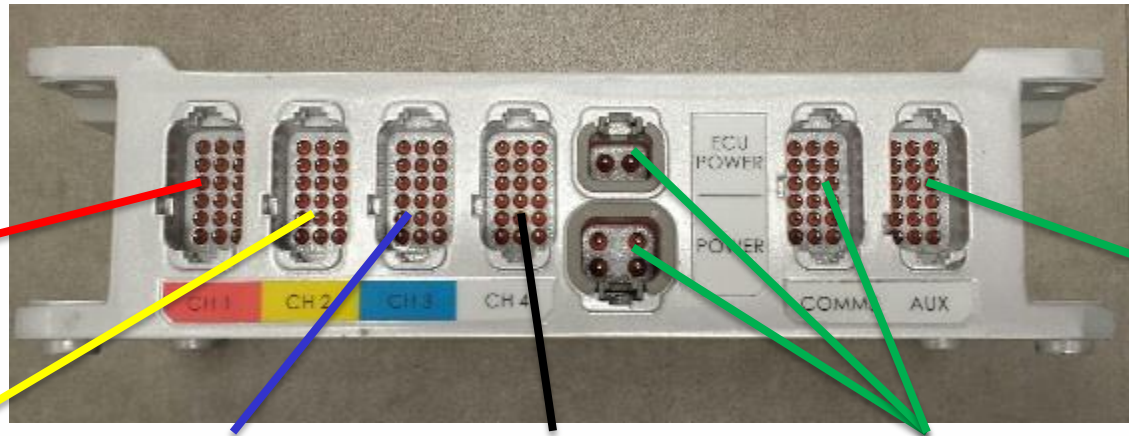
If tank has five tank metering a second Master (CM-40) needs to be added in. Or if the tank has four tank meters and NH3 or liquid.



If adding auto sectional control for granular, liquid or NH3 you will need to add a I/O ECU.



Master ECU (CM-40)



CH 1- tank one control

CH 2- tank two control

CH 3- tank three or
the saddle tank
control if no meter
on tank three.

CH 4 - fourth tank
control

These three get plugged
into the main breakout
harness 3132-83.

AUX - fans and
ground speed control

Note: if the tank has more than four tank metering a second Master ECU is needed. The control for the fifth meter will then come from CH 1 on the second Master.

Part # 3132-32
Topcon #100452-01

I/O ECU (EM-24)



The I/O ECU is capable of:

- controlling granular and NH₃/liquid Auto Section Control systems, up to 10 sections each
- can be installed on the drill to control blockage sensors.

Part # 3132-33

Topcon # 1004253-01



Metering Harness

Part # 3132-20

Topcon # AGA5515

This harness is the same for all the metering systems

- Connects to the control valve on the metering auger.
- Connects to the speed sensor
- Connects bin level sensor



Connects to one of the CH plugs on the Master ECU (CM-40)



Speed Sensor



There are speed sensors in several locations on the air seeder. These include fan speed, ground speed, and metering auger speed. All of these sensors are proximity style and send a signal to the ECU.

- the **fan speed sensor** picks up from a target bolt on the fan hub (one pulse per revolution).
- the **ground speed sensor** is located on the rear left wheel mount or drive. It picks up a signal from a sprocket

Bin Level Sensor



Each air seeder compartment that has a metering auger contains a single bin level sensor installed near the bottom. The sensor will trigger an alarm when there is no product in front of it.

Part number 3132-17

Topcon # AGA5478



Auxiliary Harness

This harness extends from the Master ECU out to the fans, ground speed and the case drain sensor.

- Connects to the AUX plug on the Master ECU
- Hook to the ground speed sensor on the back left wheel.
- Fan one connection.
- Fan two connection.
- Case drain sensor wire.



Part # 3132-22
Topcon #AGA5510



Calibration keypad Extension harness

Part # 3132-27

Topcon # AGA5514

- Plugs into the breakout harness right at the Master ECU



- Plugs into the back of the calibration keypad.

