



DRILLS WIRING CHART

RC300 CONTROLLER with IO3-1

Software version 2.30

Encoders for both wheel and motor

Single, Double & Optional Third Hopper

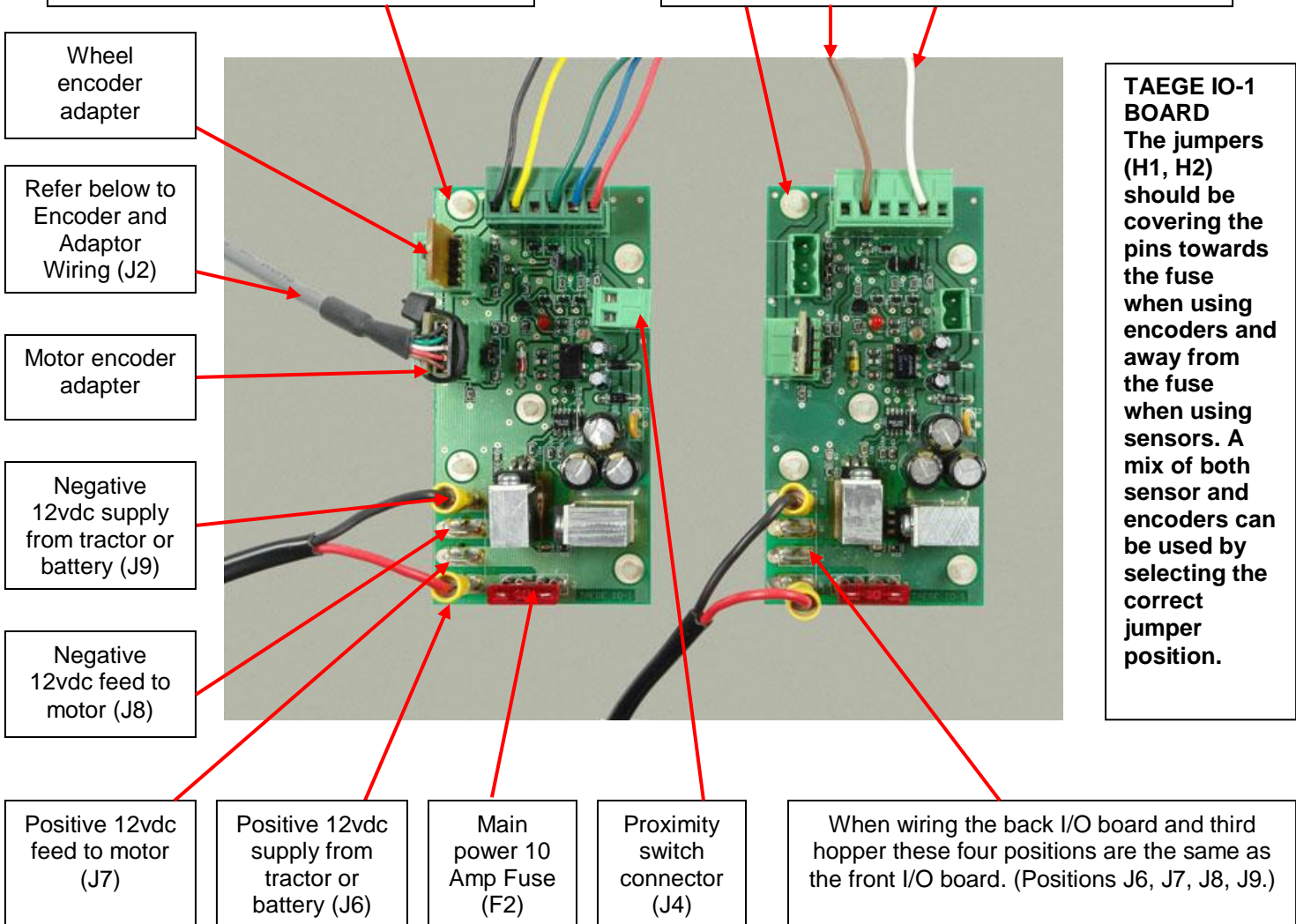
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Front IO-board Wiring all Drills

Includes single hopper drills with V2.30 software.

Back IO-board Wiring Double Hopper Drill

Brown and white wires from the controller.(J10)
Red and Black wires from power supply (J6, J9)



Motor and Wheel Sensor Wiring and Colours

Signal	Colour
Ground	Blue
Pulse	Black
+12V	Brown



Motor Encoder and Adaptor Wiring Colours

Signal	Colour	Encoder (top of motor)	Adaptor (IO board)
Ground	Black		
Index	Green		
Channel A	White		
+5v	Red		
Channel B	Brown		

When attaching the plug of the cable care must be taken to ensure correct orientation of the black wire as shown in the above photos.

The plugs can only be removed by pulling the plug away from the encoder/adaptor.

Do not under any circumstance try to remove by pulling the wires.

Failure to orientate the plug correctly or pulling the wires will void the warranty.

Wheel Encoder and Adaptor Wiring Colours

Signal	Colour	Encoder (inside axle)
Ground	Blue	
Spare		
Channel A	White	
+5v	Red	
Channel B	Pink	

When attaching the plug of the cable care must be taken to ensure correct orientation of the blue wire as shown in the above photos.

The plugs can only be removed by pulling the plug away from the encoder/adaptor.

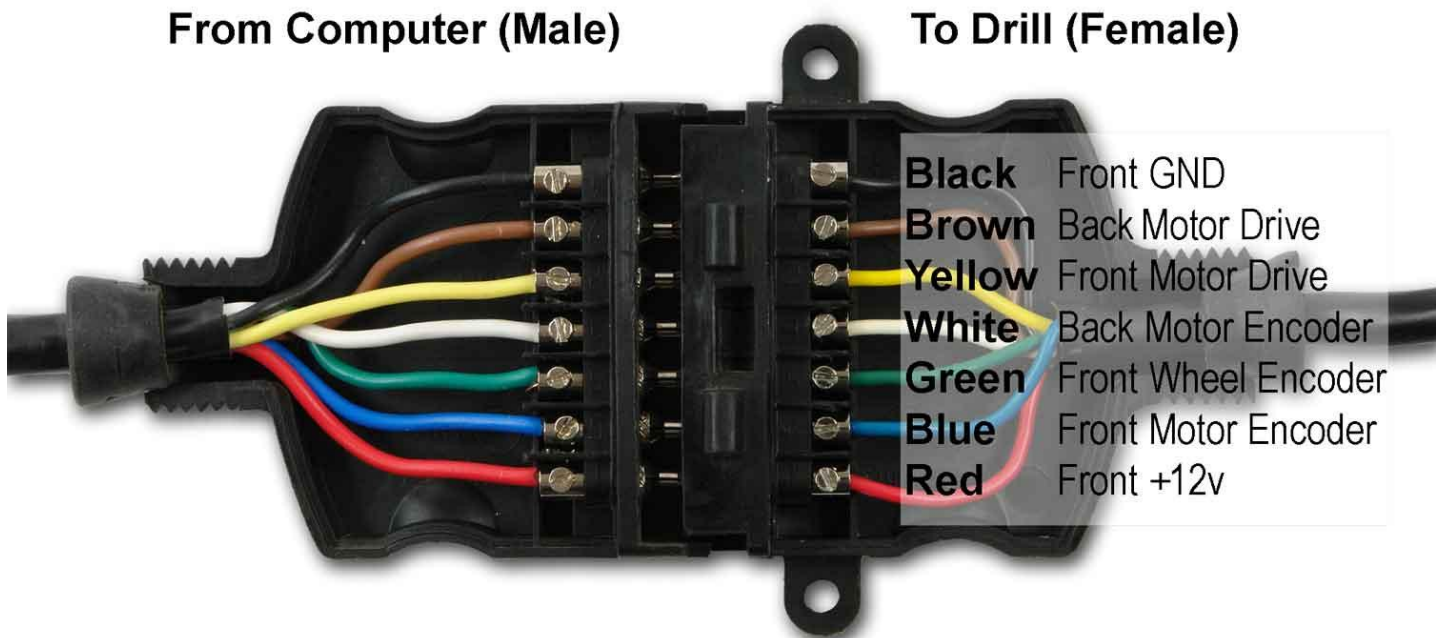
Do not under any circumstance try to remove by pulling the wires.

Failure to orientate the plug correctly or pulling the wires will void the warranty.

J1 Taege IO-1 Board Connections for Three Hoppers

Signal	Front Colours	Rear Colours	Third Colours
Ground	Black	N.C.	N.C.
Motor Drive	Yellow	Brown	Brown
	N.C.	N.C.	N.C.
Wheel Pulse	Green or orange	N.C.	N.C.
Motor Encoder	Blue	White	White
+12v	Red	N.C.	N.C.

T.B.A



WIRING DIAGRAM for  RC300 controller v2.30 software

Connect a 3.5mm dual core cable from the 12vdc tractor auxillary plug (30amp) to the front motor IO-board, and then connect to the back and third motor IO-boards. This is the main 12vdc supply for all hopper motors.

A 7 core flex runs black, yellow, green, blue, red the from the female controller plug (see wiring above) to the front motor IO-board plug and the brown and white wires to the back motor IO-board. Colours for the third hopper motor T.B.A.

Connections are made as follows:

Positions for the coloured wires can be seen in the picture on page 1 and the description in page 3.

BLACK from the cable goes to the front IO-board.

YELLOW from the cable goes to front IO-board. (this is the signal to the front motor drive)

Empty slot

GREEN from the cable goes to the front IO-board. (this is the signal from the wheel encoder)

BLUE from the cable goes to the front IO-board. (this is the signal to the front motor encoder)

RED from the cable goes to the front IO-board.

BROWN from the cable goes to the back IO-board (this is the signal to the back motor drive)

(~~WHITE~~) from the cable goes to the back IO-board (this is the signal from the back motor encoder)

(T.B.A.) from the cable goes to the third IO-board (insect)

(T.B.A.) from the cable goes to the third IO-board (insect)

With the controller plugged in and the power connected turn on the controller. The following should occur.

The **green** LED glows showing there is 12vdc power getting to the IO-board(s) and should glow continuously whenever the 12vdc supply is connected (even if the controller isn't plugged in)

The **red** LED should glow when the motor is operating.

(Taege IO-1 board have only two LEDs. The green LED glows when 12vdc is supplied to the IO-board (no light = no supply) and the red LED glows when the drill is in operation. The brighter the red LED the greater the energy being



RDS TGSS Radar

1. Jumper in same position as for encoder but no adapter board fitted.
2. Wire Colour
 - a. Brown = power Supply
 - b. Yellow/Green = Signal
 - c. Blue = OV