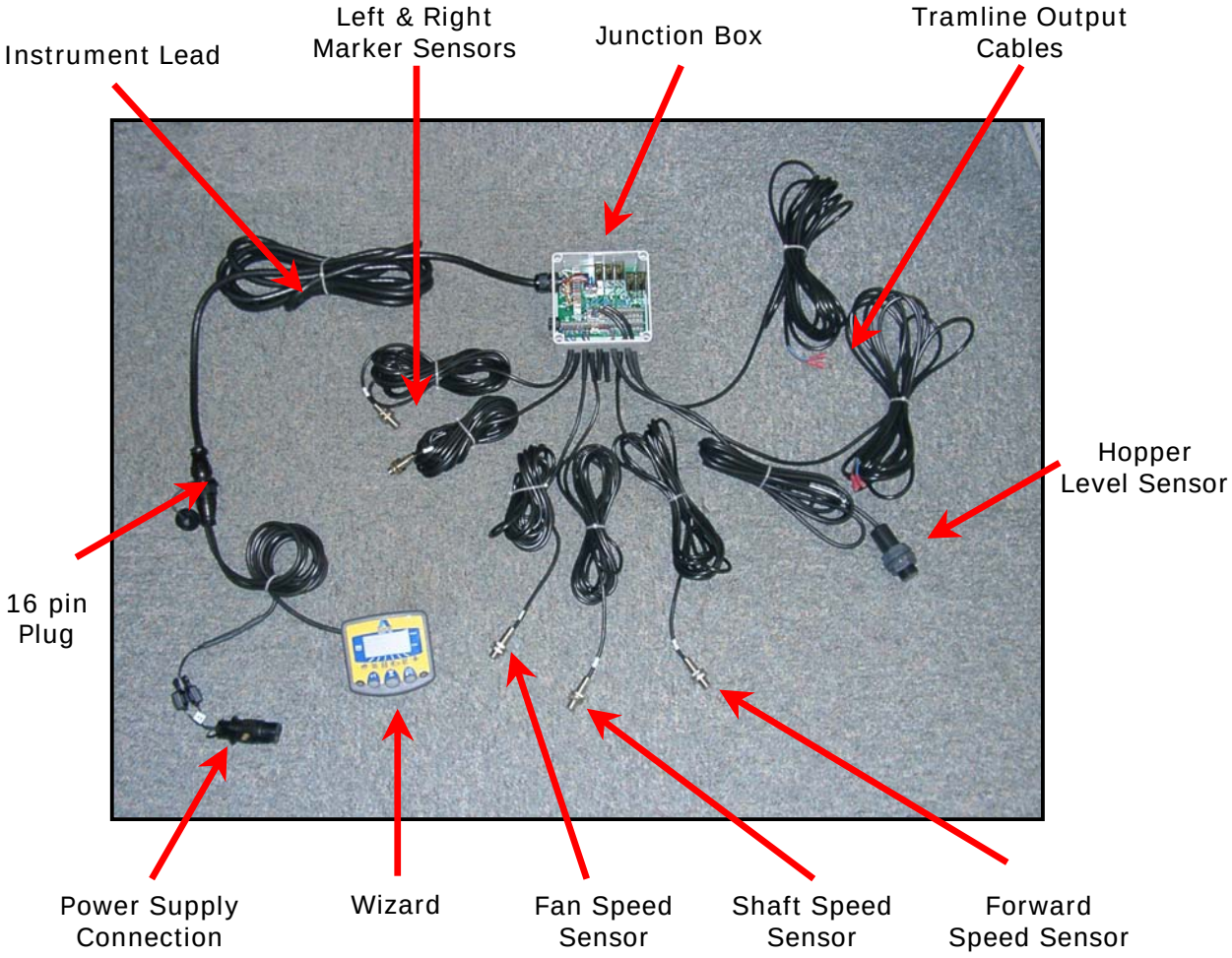
Wizard MFDC

Wiring Information

System Wiring

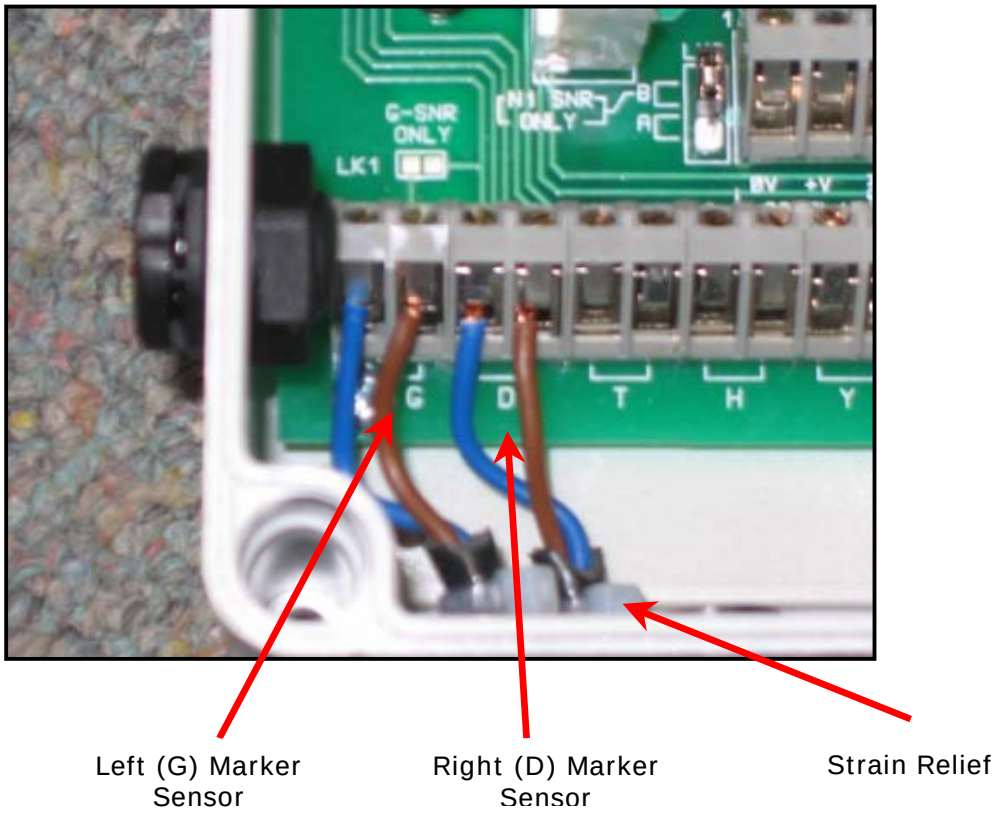


The above picture shows the core components of the system connected together.

The kit consists of parts:

1 x Wizard MFDC 100 Headunit
1 x Junction box with 5M instrument cable
2 x Tramline Output Cables (5M)
1 x Hopper Level Sensor (4M)
1 x Forward Speed Sensor (4M)
1 x Fan Speed Sensor (4M)
1 x Metering Shaft Speed Sensor (4M)
2 x Bout Marker Sensors (6M)

Bout Marker Sensors



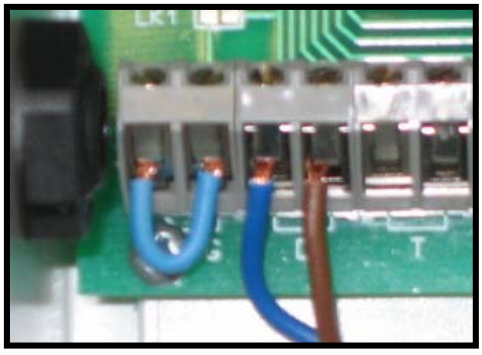
There are two bout marker sensors marked G & D; left and right:

G – Left Marker
D – Right Marker

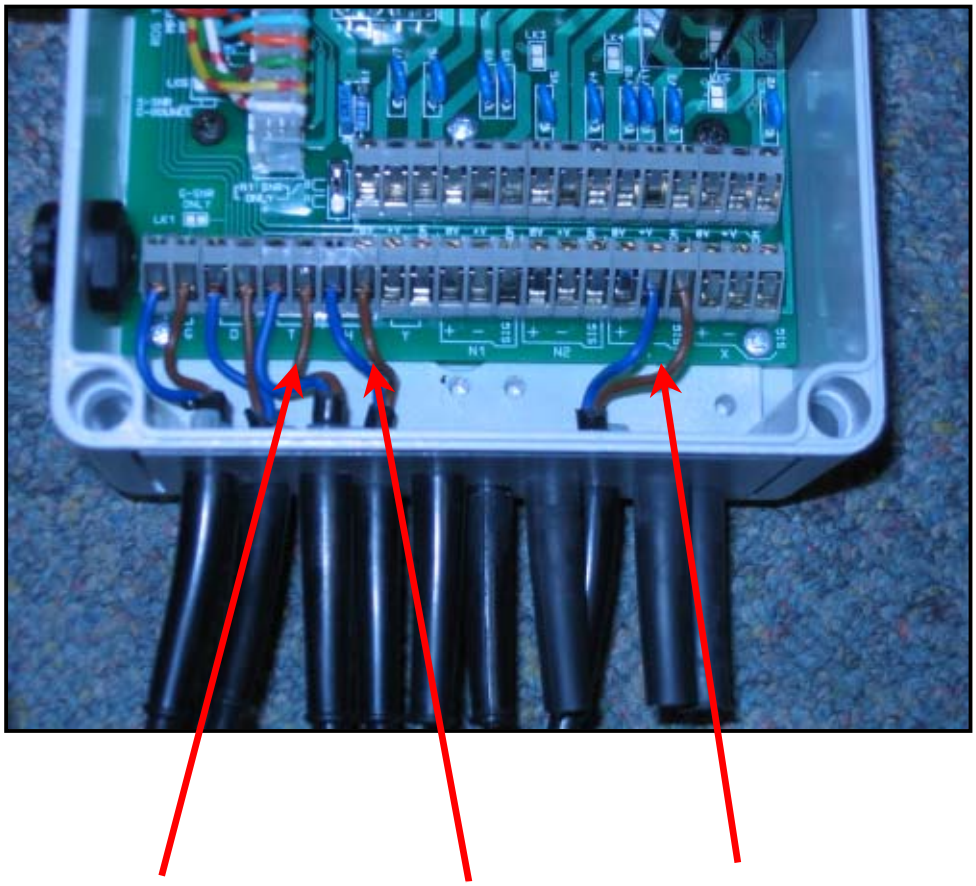
Install the sensors onto the machine and pull the remainder of the cable through the junction box grommets. After trimming the cable to length wrap a small cable tie around the cable to provide strain relief.

If Only Using 1 Bout Marker Sensor

If you are only using 1 sensor then you must install a link wire across the terminals for the unused sensor:



Speed Sensors



Fan Speed (T) Sensor

Forward Speed (H) Sensor

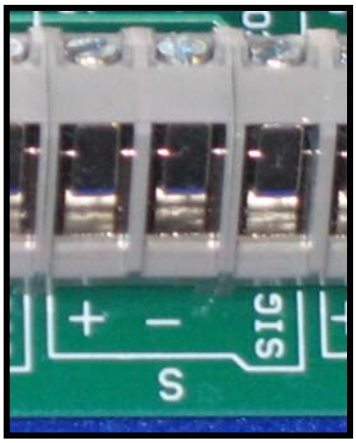
Metering Shaft (S) Speed Sensor

There are 3 speed sensors marked T, H & S; Fan, Forward and Shaft Speed:

T – Fan Speed
H – Forward Speed
S – Metering Shaft Speed

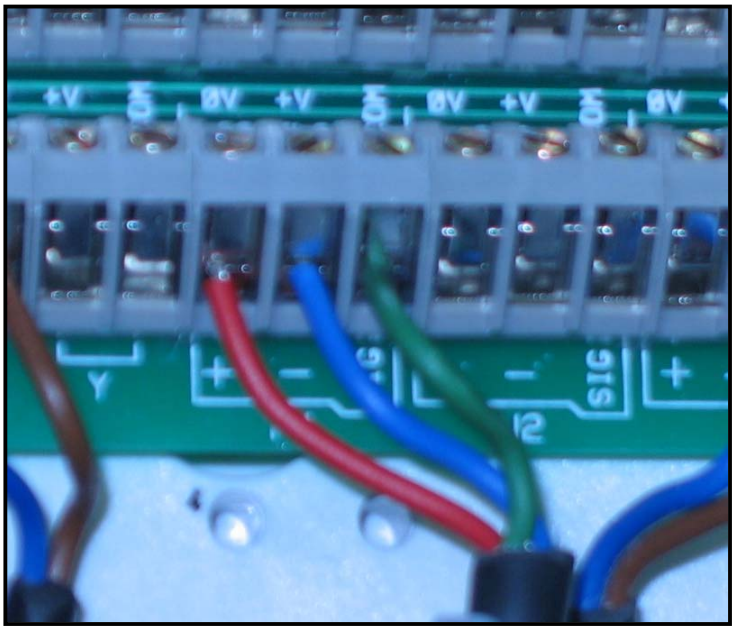
Install the sensors as before.

To connect the metering shaft speed sensor you must wire the sensor as follows:



+ – Not Connected
- – Blue Wire
Sig – Brown Wire

Hopper Level Sensor



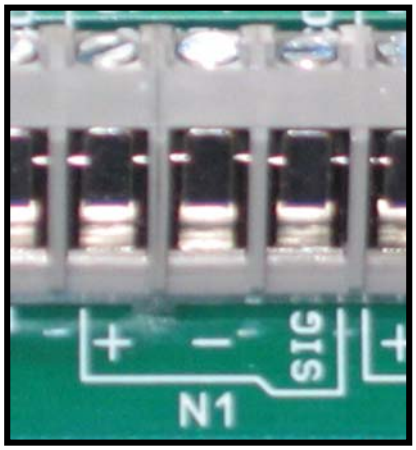
The junction box is capable of having 2 hopper level sensors, N1 & N2.

N1 – Hopper Level Sensor 1
N2 – Hopper Level Sensor 2

The sensor will be supplied as a 4 wire sensor:

Wire Colour	Function
Red	12v
Blue	0v
Green	O/P When Covered
Yellow	O/P When Uncovered

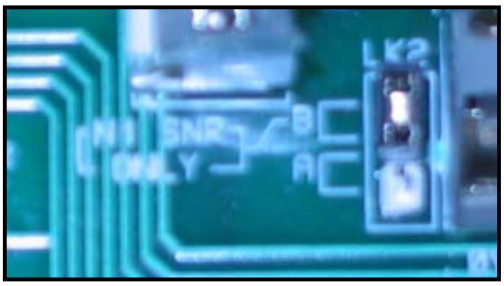
Cut back the yellow wire to the cable sheaf and strip the remaining 7mm. Connect them as follows:



+ – Red Wire
- – Blue Wire
Sig – Green Wire

Selecting Between 1 and 2 Hopper Level Sensors

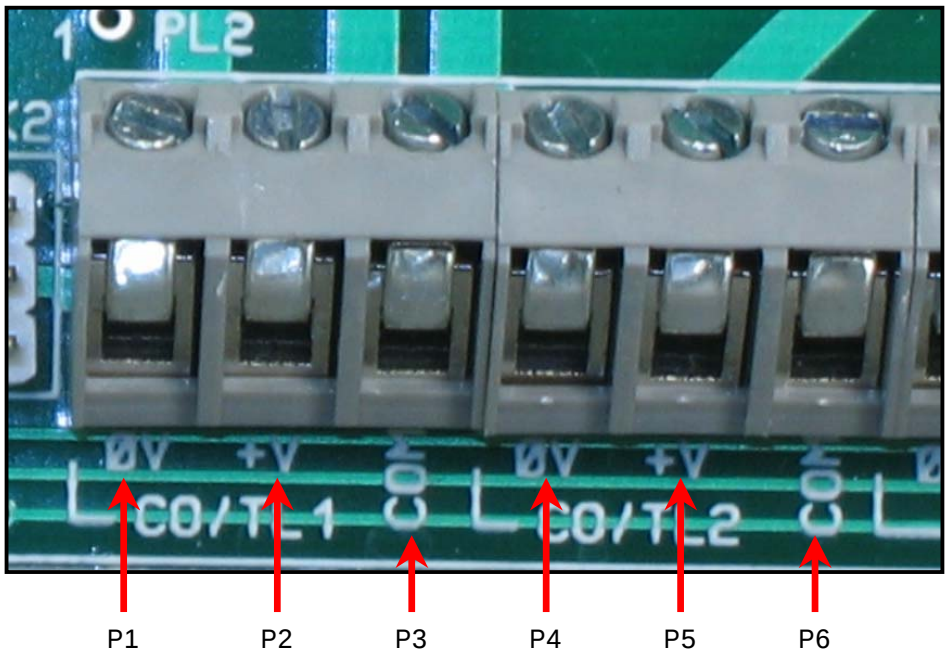
There is a jumper to select between using either 1 or 2 hopper level sensors.



If the jumper is across:

B – 1 Hopper Level Sensor
A – 2 Hopper Level Sensors

Tramline Outputs



There are 2 different ways to connect the tramline output cables depending on which state you require the output to be when the headunit is in or out of tramline mode:

		Normal Bout	Tramline Bout
TL1	***P1***	12v	0v
	P2	0v	12v
	P3	0v	0v
TL2	***P4***	12v	0v
	P5	0v	12v
	P6	0v	0v

Symmetrical Rhythm : TL1 & TL2
Asymmetrical Left Rhythm : TL1
Asymmetrical Right Rhythm : TL2

If using pre-emergence markers on a **symmetrical** or **asymmetrical left** rhythm then connect the pre-emergence marker wires across **P2** and **P3**.

If you are using pre-emergence markers on an **asymmetrical right** rhythm then connect the wires across **P5** and **P6**.