

GPS Speed Sensor

Antenna Mounting Considerations

1. The antenna must be located in an area with a clear view of the sky and mounted at the highest point on the vehicle in the center of the roof.
2. If the vehicle is non-metallic, attach the metal mounting plate via the Velcro™ strips. Place the antenna on the metal plate.
3. Avoid overhead metal objects that may interfere with satellite signals.
4. Avoid mounting in areas that receive excessive vibration.
5. Mount antenna away from sources of electromagnetic output such as radio antennas and electric motors.
6. Make sure the antenna's cable can be safely routed to the cab from the mounting position.

Antenna Installation

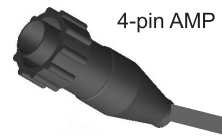
1. Make sure the surface of the vehicle is clean, dry, and free of dust particles.
2. Magnetically mount the antenna to a metal surface.
3. If the vehicle is non-metallic, attach the metal mounting plate via the Velcro™ strips. Place the antenna on the metal plate.

GPS Speed Sensor Installation

1. Place the GPS Speed Sensor in a location inside the vehicle that is easily viewed while driving.
2. Mount the GPS Speed Sensor using the two screws or Velcro™ (included).
3. Connect the GPS Speed Sensor cable to the Rate Controller (see Misc. Adapter Cables, page 2).
4. Connect the antenna cable to the antenna SMA Connector on the back of the GPS Speed Sensor.



4-pin AMP connector (Mid-Tech/generic)



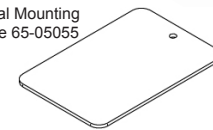
Conxall 3 position connector (Raven)



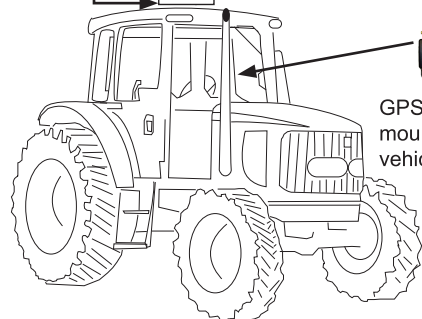
Deutsch 3 position connector (Deutsch)



Metal Mounting Plate 65-05055



Antenna mounts on top of vehicle



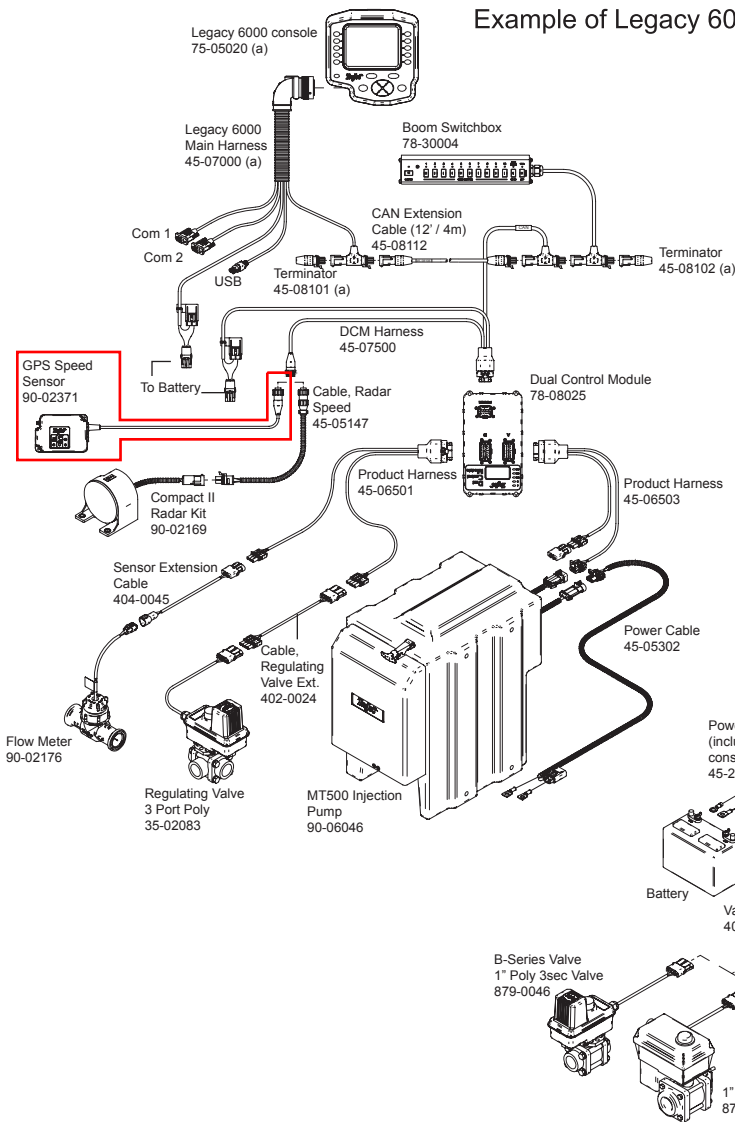
GPS Speed Sensor mounts inside cab of vehicle

Power Indicator
GPS Status Indicator

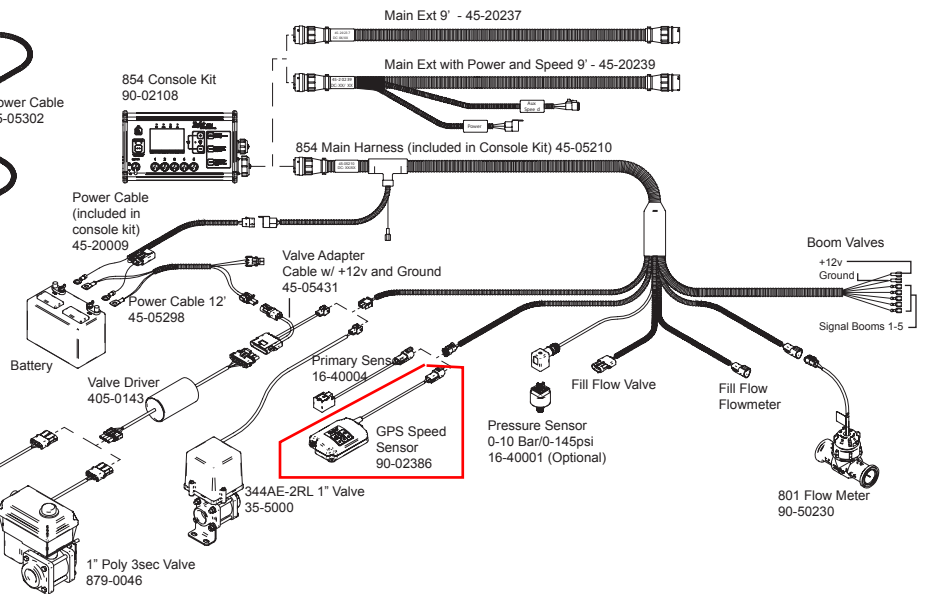
A solid light indicates power. GPS is detected. The light will blink consistently when vehicle moves. If the vehicle is stationary, the LED will blink irregularly. LED will blink when a ground speed signal is present.

Speed Indicator

Example of Legacy 6000 Console System



Example of 800 Series Console System



ELECTRICAL CONNECTION SPECIFICATIONS

- 4 Position AMP CPC With Pins
1. Ground
 2. Speed Frequency Out
 3. +12VDC in (9-16V)
 4. Radar Sense Out (Tied to Pin 3)

Operating Voltage 9-16 VDC
Signal 0-12 VDC, 50% Duty Cycle, Square Wave

* Power for the GPS Speed Sensor is supplied by the Rate Controller

ELECTRICAL CONNECTION SPECIFICATIONS

Antenna and Speed Sensor Sealed to IP67
Operating Temperature Range -40°C to +85°C
Storage Temperature Range -40°C to +85°C

PERFORMANCE SPECIFICATIONS

GPS Acquisition Time Less than 1 minute
GPS Update Rate 5 Hz
Speed Output Update 5 Hz
Output Frequency 130 Pulses per Meter
58.11 Hz Per Mph
36.11 Hz Per Kph
Speed Range 0.8 - 80 Mph
1.29 - 130 Kph

PHYSICAL SPECIFICATIONS

Length 4.4 in / 113 mm
Width 3.2 in / 82 mm
Depth 1.3 in / 32 mm
Connector (Power and Signal) 4 Position AMP CPC w/ Pins
GPS Speed Sensor Cable Length 6.0 ft / 1.8 m
Antenna Cable Length 13.1 ft / 4 m
Antenna (connector) SMA

WARRANTY

1 Year from Date of Purchase

TEEJET TECHNOLOGIES

PRODUCTS

Legacy PCM/DCM	769
TASC/ARC	769
TeeJet 844/854/834	1300 (with RAD "ON")
LH 70 Series	13000
LH 85	13000
LH 500 Series	13000
LH 5000	13000
LH 6000	13000
LH IC24	13000 or 0.769 cm per pulse*
LH IC34	13000
Raven	607 US, 154 Metric**

* depending on the application

** this calibration # is entered in conjunction with setting SPII or radar, whichever is applicable for the console

PART

90-02371	Kit, GPS Speed Sensor for Mid-Tech Controls
90-02386	Kit, GPS Speed Sensor for TeeJet Controls
90-02404	Kit, GPS Speed Sensor for Raven Controls
78-50155	Patch Antenna
78-05068	GPS Speed Sensor with 4 pin AMP connector
78-05070	GPS Speed Sensor with 3 position Conxall connector
78-05071	GPS Speed Sensor with 3 position Deutsch connector

MISCELLANEOUS ADAPTER CABLES

45-05440	Extension cable for GPS Speed Sensor or DICKEY-john radar (6' / 1.8 m)
402-0005	Extension cable for GPS Speed Sensor or DICKEY-john radar (18' / 5.5 m)
402-0035	Extension cable for GPS Speed Sensor or DICKEY-john radar (30' / 9 m)
45-20042	Adapter cable for GPS Speed Sensor or DICKEY-john radar to TeeJet Controls (1' / 0.3 m)
402-0003	GPS Speed Sensor or DICKEY-john radar "Y" cable, 2x14" Leads
402-0015-D	"Y" cable for GPS Speed Sensor or DICKEY-john radar. Provides 2 additional speed signal outputs for Mid-Tech consoles or equivalent (4-pin AMP CPC connector). Two console leads @ 8" (20 cm) long, and one console lead at 6' (1.8 m).
405-0114-D	"Y" cable for GPS Speed Sensor or DICKEY-john radar. Provides 2 additional speed signal outputs for Mid-Tech consoles or equivalent (4-pin AMP CPC connector). Two console leads @ 8" (20 cm) long, and one console lead at 15' (4.5 m).