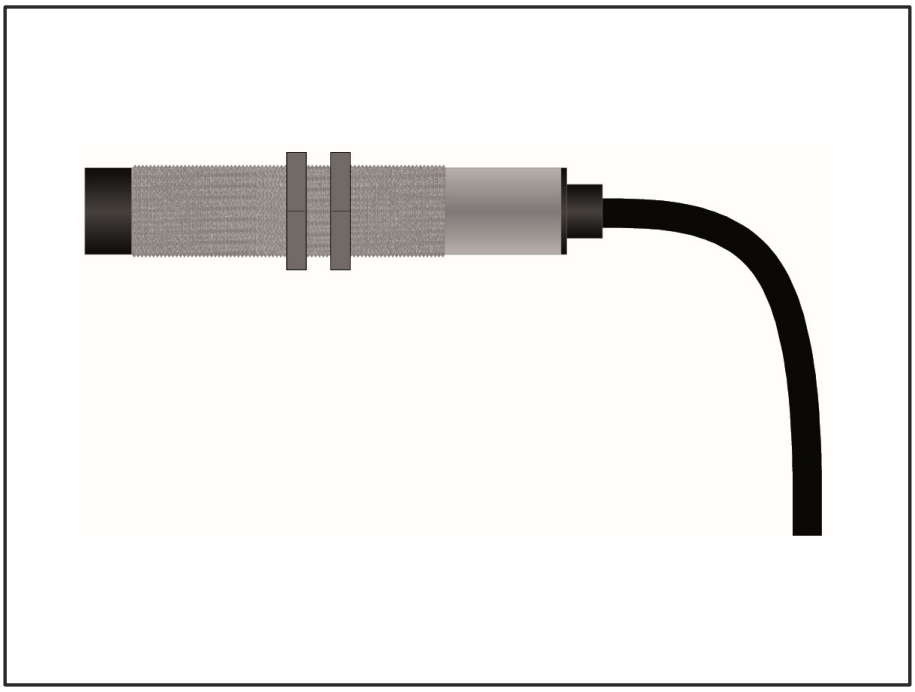
RAUCH

Complementary instructions



For AXIS, MDS, AXEO

Speed of travel

RC063AGB_00

5904167-a-en-0126

Dear user of this manual:

- This manual is intended to help qualified and experienced technicians perform proper repair work on products by RAUCH Landmaschinenfabrik GmbH.
- The prerequisite for using this manual is basic knowledge in handling products by RAUCH Landmaschinenfabrik GmbH as well as learned and applied skills in dealing with mechanical, hydraulic, and electrical systems.
- It is assumed that users are familiar with proper and practice-oriented handling of operating material, chemicals, and fertilizer as well as their disposal and storage.
- It is assumed that users will comply with accident prevention regulations and that they know how to prevent accidents and avoid dangers. Users must be able to independently evaluate risks and dangers and take appropriate actions. Unexpected dangers or hidden risk on the product will be pointed out explicitly in the manual.
- This manual does not claim to contain all the information and be accurate. RAUCH Landmaschinenfabrik GmbH reserves the right to continuously make technical changes intended to improve the product.
- RAUCH Landmaschinenfabrik GmbH does not assume any liability for repairs made based on the instructions in this manual.
- The documents may only be copied and distributed withing the typical framework of performing repairs and trainings.

How to use the manual

- The service manual Speed of travel is divided into several chapters. The topics can be found sorted into the individual chapters.
- The service manual has been amended and updated to reflect the technical state-of-the-art of the spreader.
- The service manual was written for use in practice and on the device. The purpose of the manual is to guide users step by step through repairs or troubleshooting.
- If any chapter is incomprehensible or seems illogical, please send us a quick note at www.service@rauch.de. We will gladly address your wishes and suggestions and check whether they can be implemented.

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1 Drive speed

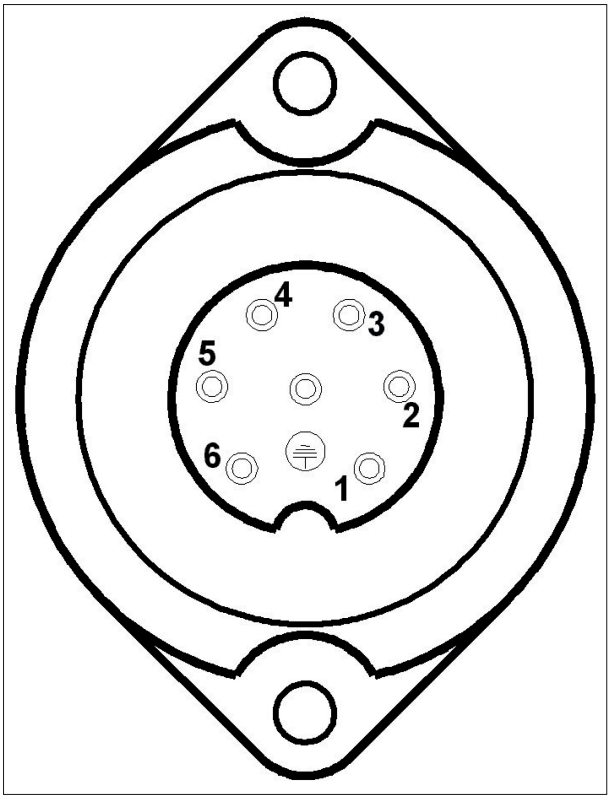
The QUANTRON needs a speed signal to be able to meter the amount of fertilizer/spreading material based on the speed of travel.

1.1 Tractors with 7-pin socket in accordance with ISO 11786/DIN 9684

On tractors with the socket mentioned above, the QUANTRON can be connected directly.
QUANTRON can process both a transmission signal (theoretical speed of travel) as well as a signal from a GPS/radar sensor (actual speed).

Assignment of the 7-pin ISO socket

Pin	Assignment
1	Actual speed (radar)
2	Theoretical speed
3	Speed of the rear PTO
4	Lifting gear position lowered or lifted
5	Position of the lifting gear
6	12V voltage
7	Ground



1.2 Tractors without travel speed signal

A speed sensor can be retrofitted for these tractors. The signal can be picked up at the cardan shaft (all-wheel) and by a perforated disc on the rear wheel. The power supply can be taken either from the QUANTRON or directly to the sensor, depending on the type of sensor.

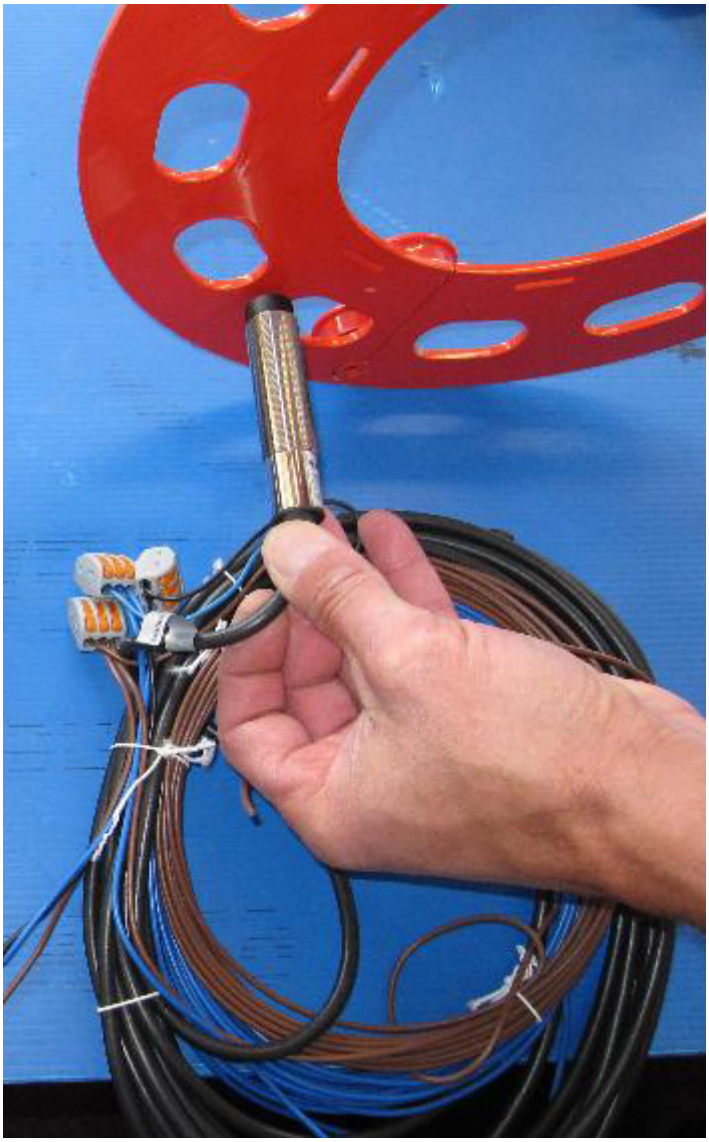


Fig. 1: QUANTRON with speed sensor

The signal can also be picked up on a welded flat bar or M12 screw head on the Cardan shaft or on the wheel bolts.
It is important that the metallic object is sharp-edged and at least 8-10 mm high.
Sensor spacing approx. 3-5 mm



Fig. 2: Speed signal on the Cardan shaft.

At least 600 pulses/100 m are required for the speed indicator to give a correct reading. The more pulses are achieved, the more precise the speed indicator and therefore also the control.

1.3 Retrofit kits

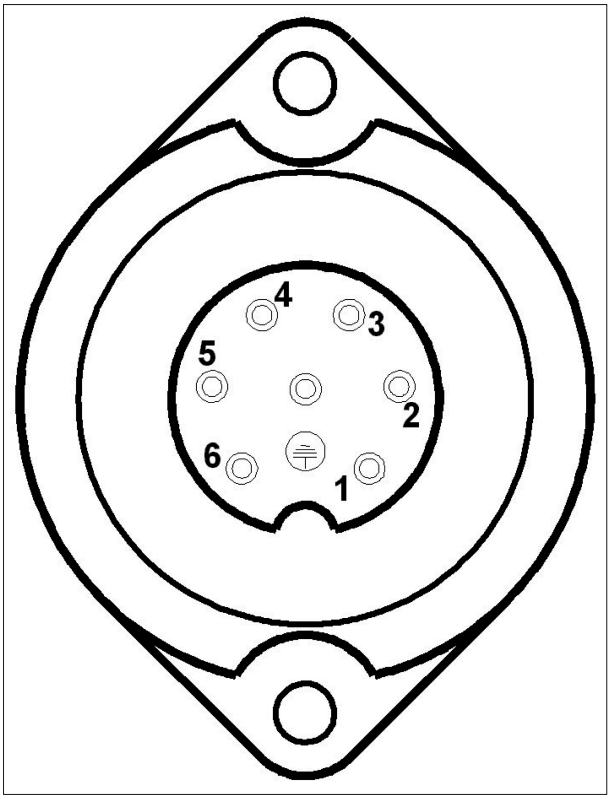
- 0608616 Speed sensor kit for direct connection
- 0608827 Set of parts, punched discs
- 0608817 Speed sensor including 7-pin signal socket and power supply cable for direct mounting on the tractor

1.4 Tractors with manufacturer-specific signal sockets

In this case, it is possible to retrofit an ISO 11786 signal socket.
The signal can be picked up on the existing signal socket, e.g. Fendt GT.

Pin assignment	Cable color
PIN 1: Actual forward speed (radar)	green
PIN 2: Theoretical forward speed (e.g. transmission, wheel sensor)	black
PIN 6 Power supply (12 V switched by ignition lock) (cable 15)	brown
PIN 7 Ground (terminal 31)	blue

Installation kit signal socket 4072163



1.5 Forward speed by GPS receiver (AccoSat)

A GPS receiver is required for this. The GPS speed sensor parts kit **0608847** includes a receiver and an adapter cable **2055598**.

Two measuring procedures are combined to measure the speed with the AccoSat sensor: Firstly, the acceleration of the vehicle is detected by an integrated acceleration sensor. After the vehicle has travelled a few meters, the GPS signal becomes available and can be used to determine the speed.

The sensor provides a speed-proportional ISO 11786 frequency signal with 13,000 pulses/100m.

When attaching the sensor, it is important to ensure that it is level and the arrow printed on it is pointing in the direction of travel. The integrated GPS receiver is very strong, so the speed can even be detected through the tractor roof. However, it is still recommended to mount the sensor somewhere where it is open on all sides (e.g. on the roof of the tractor) to improve the receiver stability.



Fig. 3: AccoSat sensor with adapter cable 0608847

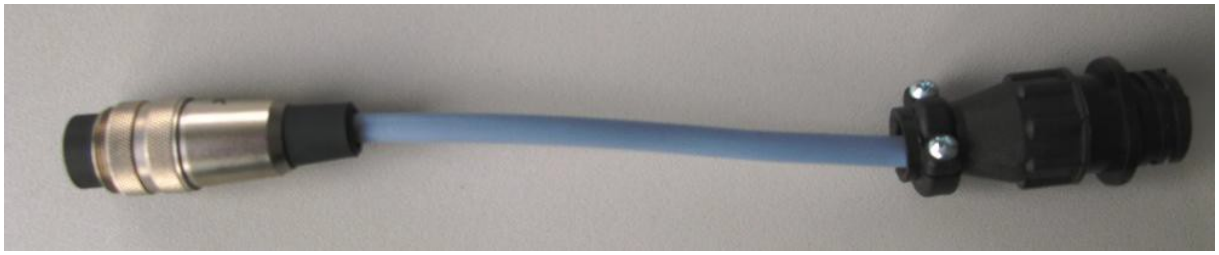


Fig. 4: Adapter cable 2055598



Fig. 5: GPS speed sensor including 7-pin signal socket and power supply cable for direct mounting on the tractor 0608848

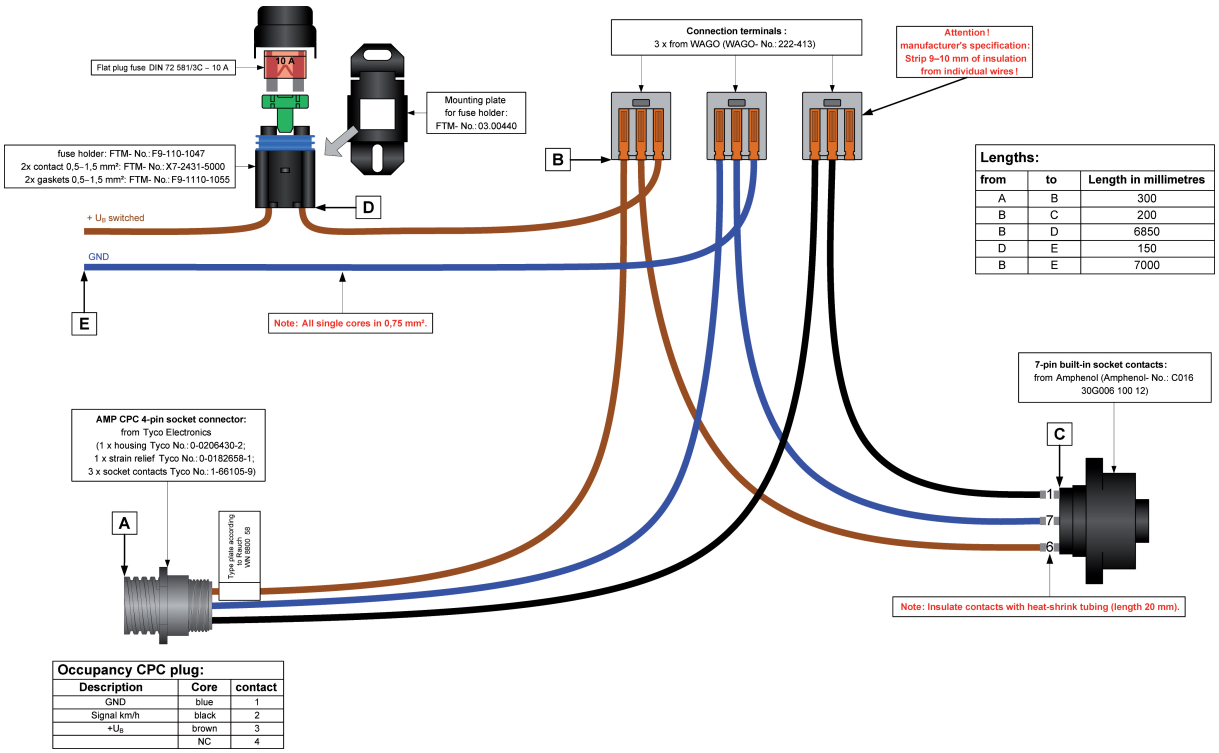


Fig. 6: Adapter cable 2057499 AccoSat sensor

1.6 AccoSat sensor accessories

Article number:	Description:
2057498	AccoSat speed sensor
2057499	AccoSat sensor-km/h-ISO11786 adapter cable
0608847	GPS-km/h sensor-Q.E/E2/K/A parts set
0608848	GPS-km/h sensor-ISO 11786 parts set

Parts set 0608848 is delivered with an installation kit. This meets the ISO 11786 standard, so it can be used with any attachment (even those that are not manufactured by Rauch)

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