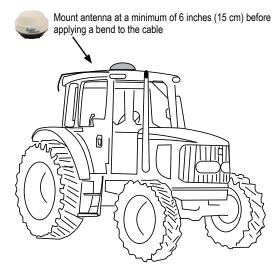


RX375P RECEIVER

INSTALLATION AND SPECIFICATIONS

Mounting Considerations

- When mounting the RX375P Receiver, a space of at least 6 inches (15 cm) between the receiver and any bend in the cable is required. Any length shorter than 6 inches puts undue stress on the cable and the enclosure for the RX375P.
- The Receiver should not be mounted where water can pool around it. The receiver housing is designed to withstand rain and splashing, but not submersion in liquids for sustained periods of time.
- Mount the receiver above all other metal objects to avoid multipath. Satellite signals received by the GPS receiver by a reflection from an object can decrease positioning accuracy. For example, roof racks, large headlight enclosures, etc., can cause multipath that may result in a jump in GPS position.



RX375P Receiver Installation

- 1. Make sure the surface of the vehicle is clean, dry, and free of dust particles.
- 2. To magnetically mount the RX375P, attach the black magnetic base unit to the underside of the receiver and mount it to a metal surface.
- 3. To mount the receiver to a fiberglass surface, remove the adhesive pad and attach it to the vehicle. Adhere the metal disk to the other side of the adhesive pad, holding firmly in place for 10 seconds to ensure a secure connection. Magnetically mount the RX375P to the disk.



Port B: 19200 GGA 5Hz VTG 1Hz

SPECIFICATIONS

Calibration Numbers

TeeJet Technologies	Typical Speed
Products	Calibration Number
Radion	8590
IC18	8590
Legacy PCM/DCM	
TASC/ARC	1064
TeeJet 844/854/834	859 (With RAD "ON")
LH 70 Series	8590
LH 85	8590
LH 500 Series	8590
LH 5000	
LH 6000	8590
LH IC 24	8590 or 1.064 cm per pulse*
LH IC 34	8590
* Daniella a sa Harana Ilaatia a sa a	and the land of the second of the second

* Depending on the application can operate in Autonomous Mode

Electrical Connection Specifications

Deustch Connector's Pin-outs

- 1. Manual mark in
- 2. TxB
- 3. RxB
- 4. CAN high
- 5. Signal Ground
- 6. TxA
- 7. One PPS
- 8. RxA
- 9. CAN low
- 10. Power in (12V)
- 11. Power Ground
- 12. Speed out

GPS Sensor Specifications

Receiver TypeL1, C/A code with carrier phase smoothing
(Patented COAST technology during differential signal outage
Channels
(10-channel when tracking SBAS) (WAAS
Update Rate1 - 20 Hz Positions
Horizontal Accuracy< 2.0 ft / 60 cm 95% confidence (DGPS)1
< 8.2 ft / 2.5 m 95% confidence (Autonomous, no SA)2 **
Differential Options SBAS (WAAS, EGNOS, MSAS), e-Dif, L-Di
SBAS (WAAS) Tracking2-channel, parallel tracking
Start Up TimeCold Start: < 60 s (no almanac and RTC
Warm Start: < 30 s (almanac and RTC
Hot Start: < 10 s typical (almanac, RTC and position
Satellite Reaquisition<1
* Depends on multipath environment, number of satellites in view, sate

Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services), and ionospheric activity.

Communication Specifications

Serial Ports	2 Full Duplex RS232
CAN	NMEA 2000 broadcast
Pulse Output	. 1 PPS (CMOS, active low, falling edge sync)
Baud Rates	4800 - 115200
Differential Correction I/O	ProtocolRTCM SC-104 v2.x
Data I/O Protocol	NMEA 0183, SLX Binary and NMEA 2000
Ground Speed Output	
Range:	
Signal:	Pulse Out

Frequency Conversion: 94 Hz/m/s (28.65 Pulse Per Foot Traveled)

Event Mark Output. CMOS, Active Low,

......Falling Edge Sync, 10 K-ohm, 10pF Load

Part Numbers

Kits and Components

45-05495	Cable, RX370P or RX375P Speed Only
45-05338	Cable, GPS Data w/12 position Deutsch
45-05496	Cable, RX370P or RX375P DB9, Speed, Power
45-05340	Cable, Deutsch to DB9
45-05350	Cable, Com 1 & 2 w/Power In
78-50203	Receiver, GPS RX375P SBAS

Environmental Specifications

Operating Temperature	22°F - +158°F / -30°C - +70°C
Storage Temperature	40°F - +185°F / -40°C - +85°C
Humidity	95% Non-Condensing
Enclosure	Waterproof and Dustproof
Compliance	FCC, CE
	EP455 Section 5.14.1 Operational
	EP455 Section 5.15.1 Random
EMI CertificationCE	(ISO 14982 Emissions and Immunity),
	FCC Part 15,
	Subpart B, CISPR 22

Power Specifications

Input Voltage	
Power Consumption	< 3 W @ 12VDC (typical)
·	249 mA @ 12VDC (typical)
Power Connector	Cable Mount and Environmentally Sealed

Physical Specifications

Height	4.1 in / 10.4 cm
Width	5.7 in / 14.5 cm
Weight	<19.7 oz /<558 g
Mounting Options	
	8-32 screws): 1" mounting hole



TeeJet Technologies 1801 Business Park Drive Springfield, Illinois 62703 USA www.teejet.com



^{**} Depends on multipath environment, number of satellites in view, satellite geometry, and lonospheric activity.