

Job Scope and Isolation

190501-09-00-04 / plate-stud Velomitor CT transducer

CONTROLLED REPLACEMENT BOUNDARY

Protect the connected machine and monitoring channel before disturbing the installed transducer. Identify the complete 190501-09-00-04 execution and preserve the accepted sensor location and wiring record.

09 mount

Plate stud, 3/8-24 to 1/4 NPT

00 connection

Two-pin MIL-C-5015

04 approval

Check site certification conditions

Machine role

Casing vibration velocity

PRE-WORK RECORD

Record the installed location, monitored machine, matching connector and baseline vibration trend. De-energize or isolate according to the site procedure. Avoid treating a loose sensor as a validated vibration measurement.

Pre-installation Readiness

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01

INSTALLED RECORD

Match the complete 190501-09-00-04 marking to the monitored channel and maintenance record.

02

MACHINE STATE

Place the fan train and protection system in the approved maintenance state before disturbing the sensor.

03

MOUNTING INTERFACE

Inspect the 09 plate stud and the machine-side 1/4 NPT receiving point; reject damaged threads.

04

MATING CABLE

Confirm the 00 MIL-C-5015 two-socket cable, pin assignment and intended cable route.

05

MEASUREMENT POINT

Use a bearing housing or casing location that transmits the rotor vibration of interest.

06

BASELINE EVIDENCE

Retain the accepted trend so the commissioned channel can be compared after replacement.

Acceptance: marking, mounting option, connector, route and selected casing point agree with the installed record.

Installation Sequence

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01 Record the complete 190501-09-00-04 marking and the installed monitoring channel.

02 Confirm the 09 plate stud matches the machine-side 1/4 NPT installation.

03 Confirm the 00 MIL-C-5015 mating connector, pinout and cable route.

04 Choose a bearing housing or casing point that transmits rotor vibration.

05 Clean and secure the mount; apply 4.5 ± 0.6 N m to the transducer stud.

06 Route and retain the shielded cable without imposing connector strain.

07 Check bias: pin A relative to pin B is 10.1 Vdc ± 1.0 Vdc.

08 Prove the channel response and retain the accepted vibration trend.

Hold point: do not return the machine to service until the channel response is controlled and accepted.

Commissioning and Acceptance

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IDENTITY Exact order code and installed channel match the approved record.

MOUNTING 09 plate stud is secure at 4.5 ±0.6 N m.

CONNECTION MIL-C-5015 connection and polarity are correct.

BIAS Pin A relative to pin B: 10.1 Vdc ±1.0 Vdc.

SIGNAL Controlled casing-vibration response is plausible.

HANDOVER Accepted trend and maintenance record are retained.

If the bias or response fails, recheck connector seating, polarity, mount and monitor-channel setup before release.

Diagnostics and Handover

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Bias or open circuit

Check pin A/B bias and the MIL-C-5015 interface before changing channel settings.

Implausible trend

Recheck the casing transmission path, stud torque and cable restraint.

RELATED BENTLY NEVADA PRODUCT PAGES

01	Bently Nevada 330193-09-20-10-00	02	Bently Nevada 330709-000-040-50-02-00
03	Bently Nevada 330780-90-00	04	Bently Nevada 330104-00-10-05-01-05
05	Bently Nevada 9200-03-05-10-00	06	Bently Nevada 330980-71-00
07	Bently Nevada 330930-040-00-00 P3403893-0006	08	Bently Nevada 114M5330-01
09	Bently Nevada 128229-01	10	Bently Nevada 3500/90
11	Bently Nevada 3500/32M	12	Bently Nevada 3500/64M

MANUFACTURER SOURCE RECORD

Baker Hughes / Bently Nevada, 190501 Velomitor CT Transducer Datasheet, 141636 Rev. AF (2026).

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