

APTER POWER FIELD WORKBOOK

INSTALLATION | APPLICATION | VERIFICATION

3500/77M 143737-01

3500/77M external-termination I/O module

CONTROLLED ENGINEERING COPY

Verify 3500/77M 143737-01, front/rear assembly pairing, transducer supply, channel scale and phase reference, firmware compatibility and rack slot before work; prove all four pressure waveforms and alarms after restart.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3500/77M 143737-01
Manufacturer part	3500/77M 143737-01
Hardware type	3500/77M 143737-01
System family	3500/77M reciprocating compressor pressure system
HS code	8537101190



APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 3500/77M 143737-01 marking and its assigned 3500/77M reciprocating compressor pressure system position before work.
- 2

Place the connected recip compressor cylinder-pressure monitoring process in the approved maintenance state.
- 3

Isolate applicable power and four reciprocating-compressor cylinder pressure signals field energy before disconnecting conductors.
- 4

Record connector, conductor, address, firmware and software identities before removal.
- 5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

MATCHED HARDWARE

- 3500 rack
- compatible cylinder-pressure transducers
- matched I/O module and field wiring
- 3500 Rack Configuration Software

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3500/77M 143737-01 / 3500/77M 143737-01 recorded
Physical interface	3500 rack
Companion check	compatible cylinder-pressure transducers
Functional proof	Handles four dynamic pressure channels
Application test	Recip compressor cylinder-pressure monitoring

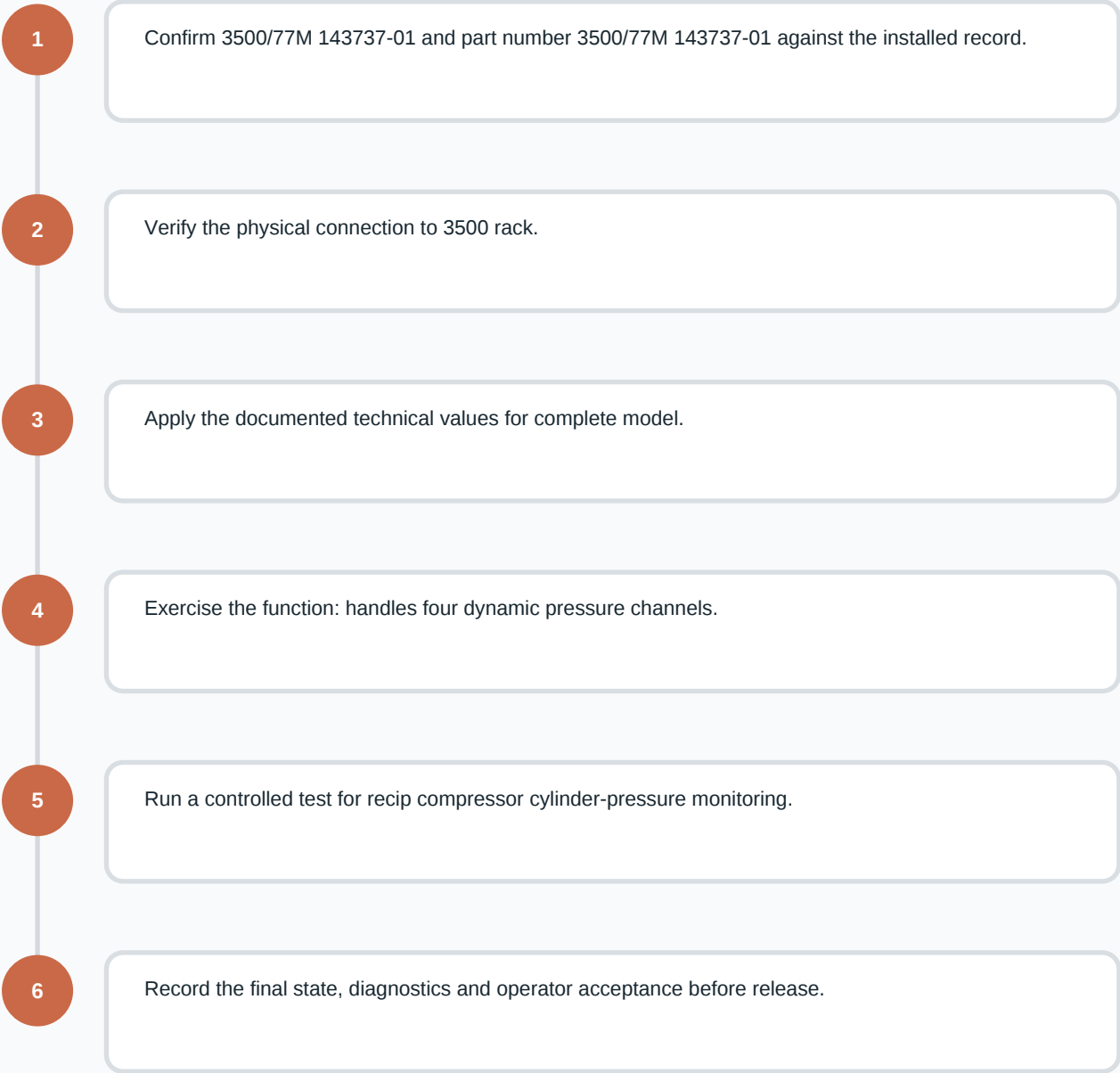
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Complete model	3500/77M 143737-01
Assembly	143737-01
Termination	External
Input channels	4
Frequency response	0 to 5.5 kHz
Pressure accuracy at 25 degC	+/-0.5%
Pressure accuracy over temperature	+/-1%
Power consumption	7.8 W full load
Buffered output impedance	550 ohm
Transducer supply	+23 +/-0.8 V DC
Current limit	24.5 mA per channel
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Humidity	95%, noncondensing

FIELD NOTE

Verify 3500/77M 143737-01, front/rear assembly pairing, transducer supply, channel scale and phase reference, firmware compatibility and rack slot before work; prove all four pressure waveforms and alarms after restart.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3500/77M 143737-01 / 3500/77M 143737-01 recorded
Physical interface	3500 rack
Companion check	compatible cylinder-pressure transducers
Functional proof	Handles four dynamic pressure channels
Application test	Recip compressor cylinder-pressure monitoring

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed 3500 rack and compatible cylinder-pressure transducers against the approved project.

☐☐☐

VERIFICATION RECORD

PRODUCT IDENTITY	3500/77M 143737-01
INSTALLED POSITION	Documented 3500/77M reciprocating compressor pressure system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330101 00 12 20 02 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330101 00 12 20 02 05 page
Bently Nevada 330171 00 08 10 02 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330171 00 08 10 02 05 page
Bently Nevada 21747 065 01	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21747 065 01 page
Bently Nevada 330881 28 00 061 03 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330881 28 00 061 03 02 page
Bently Nevada 330103 00 03 15 01 CN	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330103 00 03 15 01 CN page
Bently Nevada 21000 16 05 00 027 04 02	Related Bently Nevada machinery-monitoring product	View Bently Nevada 21000 16 05 00 027 04 02 page
Bently Nevada 330851 02 000 070 10 00 05	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330851 02 000 070 10 00 05 page
Bently Nevada 129715 138 040 05 CN	Related Bently Nevada machinery-monitoring product	View Bently Nevada 129715 138 040 05 CN page

SOURCE IDENTIFIERS

Bently Nevada 3500/77M Recip Cylinder Pressure Monitor Datasheet
147485 Rev. Y

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