



**Model:** MT-3505  
UNIT SETUP

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# Installation Instructions

## INSTALLATION OVERVIEW: \_\_\_\_\_

These installation instructions are for the MT-3505. Some parts are shipped separately and need to be installed before the unit can be used. These parts are listed below in the parts and accessories list. Please follow the installation instructions below and then perform the checkout procedure to ensure the unit is operating properly.

## PARTS & ACCESSORIES LIST FOR: \_\_\_\_\_

PART NUMBER	DESCRIPTION	QTY
1-5680	BARB FITTING	1
2-5857	CABLE CLAMP	1
2-7551	FUSE, 1 AMP	1
6-2421	AC POWER CORD	1
0301-0944-01	PRIMARY FILTER ELEMENT, 75 MICRON	1
0301-0945-01	SECONDARY FILTER ELEMENT, 8 MICRON	1
0692-1834-01	QUALITY CONTROL QUESTIONNAIRE	1
7049-0130-01	NO CELL	1
MT60A08A	TACHOMETER PICKUP ASSEMBLY	1
MT3000210A	DC POWER LEAD SET ASSEMBLY	1
7049-0004-01	O <sub>2</sub> CELL	1
MT310018	EXHAUST PROBE TIP	1
MT310020	EXHAUST HOSE	1
MT310032	EXHAUST PROBE LEAK CHECK CAP	1
MT310047	EXHAUST PROBE HANDLE	1
MT350090	TACHOMETER ADAPTER LEAD	1
SC33	REGISTRATION CARD	1
SF327	WARRANTY CERTIFICATE	1
ZMT3505	OPERATORS MANUAL	1

## REQUIRED TOOLS: \_\_\_\_\_

- STANDARD TOOL KIT

## INSTALLATION INSTRUCTIONS: \_\_\_\_\_

**NOTE: FOR THE FOLLOWING INSTALLATION INSTRUCTIONS PLEASE REFER TO FIGURE 1.**

1. Remove the MT-3505, and accessories box, from the carton it was shipped in. Discard all packaging material.
2. Remove the tag from the AC line filter / fuse assembly.
3. Open the Accessories Box and assemble the Exhaust Probe Assembly by following the steps below:
  - a. Attach the Exhaust Probe Tip (MT310018) to the Exhaust Probe Handle (MT310047).
  - b. Attach the above Assembly to the Exhaust Hose (MT310020).
  - c. Attach the Exhaust Probe / Hose assembly to the Primary Filter Bowl.
4. Attach the Tachometer Pickup Assembly (MT60A08A), to the Tachometer Adapter Lead (MT350090).
5. Attach the above Assembly to the back panel port labeled "TACH".
6. Attach the Barb Fitting (1-5680) to the back panel port labeled "CAL".
7. Attach the DC Power Lead Set Assembly (MT3000210A) to the back panel port labeled "POWER 12VDC".

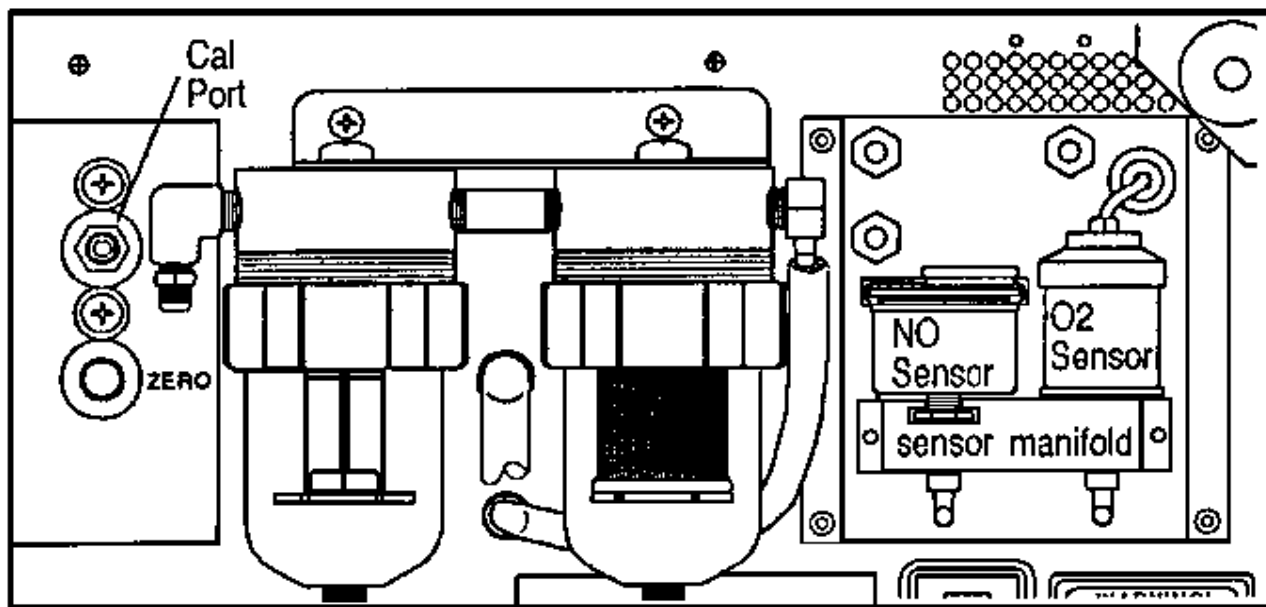


Figure 1

8. Remove the cover from the O<sub>2</sub> / NO Manifold Block.
9. Remove the O<sub>2</sub> Cell (7049-0004-01) from its plastic bag, and attach the O<sub>2</sub> cell to the O<sub>2</sub> / NO Manifold Block, on the back of the Analyzer.
10. Plug the three pin O<sub>2</sub> Harness into the O<sub>2</sub> Cell, making sure the connector is oriented properly. This can be accomplished by making sure the O<sub>2</sub> Harness notch is placed against the mating plate on the O<sub>2</sub> Cell.

**CAUTION: DO NOT TOUCH THE NOX CELL EDGE CONNECTOR WITH YOUR FINGERS!**

11. Remove the NO Cell (7049-0130-01) from the packing material, and insert it into the O<sub>2</sub> / NO Manifold Block. Ensure the male edge inserts properly and fully into the female edge connector.
12. Re-install the cover onto the O<sub>2</sub> / NO Manifold Block.

13. Remove the following items from the accessories box and store them in a safe place.

- Primary Filter Element (0301-0944-01)
- Secondary Filter Element (0301-0945-01)
- Fuse, 1 AMP (2-7551)
- Exhaust Probe Leak Check Cap (MT310032)
- Cable Clamp (2-5857)

14. An explanation of the above components follows:

**NOTE:** *The Primary and Secondary Filter Elements are simply to be used as replacements when the existing elements are dirty. The Exhaust Probe Leak Check Cap is used to plug the end of the Exhaust Probe during a leak check. The 1 Amp Fuse should be used when the Analyzer is used in an application that requires 240 Volts. The Cable Clamp is used to secure the moisture drain tube to a fixture, such as an optional stand.*

**CHECKOUT PROCEDURE:** \_\_\_\_\_

1. Attach the AC Power Cord to the back of the Analyzer.
2. Turn ON the Analyzer by placing the Power Switch on the side panel of the unit in the "I" position.
3. The Snap-on logo will appear. Now press **<GAS ANALYZER>**.
4. Wait until the "**ANALYZER WARM-UP IN PROGRESS**" message at the top of the five gas page disappears. This will take approximately 15 minutes.
5. Now press **<F4>** "MANUAL ZERO".
6. All gas readings, except O<sub>2</sub> should read approximately 0. O<sub>2</sub> should read 20.8% ±0.3%. If any of the readings are inaccurate, place a service call by dialing, 1-800-CALL SUN.
7. Ensure that the Operator's Manual is stored in a safe place and that the Registration card is properly filled out and sent in.
8. Leave the Analyzer turned on continuously for 15 hours to insure that the internal battery is fully charged. This prepares the Analyzer for normal use.