

# 0200

# OPERATING INSTRUCTIONS

SOIL CORE SAMPLER

08/2017



*0200 Soil Core Sampler, complete in case*

The 0200 Soil Sampler allows the extraction of intact soil cores. A core 2.25" (5.7 cm) in diameter is extracted and held in a brass cylinder. The cylinder and soil sample can then be placed in a pressure plate extractor or Tempe cell apparatus, and the waterholding characteristics of the sample can be determined. The cylinder can be used to provide a sample of known volume, allowing the bulk density to be determined.

The sampler is supplied with two wedge coring tips, driving hammer, core extractor, spanner and strap wrench for replacing coring tips, six cylinder caps, and five brass cylinders; one 6 cm long, two 3 cm long, and two 1 cm long.

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**SOILMOISTURE EQUIPMENT CORP.**

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## **Assembly**

The unit is shipped completely assembled. The coring tip is screwed in place on the end of the barrel and is removed and replaced by using the spanner wrench, which is included. The round stem on the spanner wrench fits into the small hole in the side of the cutting tip. Threads on the cutting tip are right-hand threads. To remove the tip, turn the tip counterclockwise.

The brass retainer cylinders are held in place in the barrel of the sampler. You will note that the notched ring is placed in the barrel first, with the notches toward the cutting edge of the sampler. After a sample has been taken, all of the retaining cylinders are pushed out of the barrel by the slotted core extractor that has two tangs which are used to engage the notches in the ring mentioned above. The slotted core extractor can be rotated inside the cutting edge to remove any soil in the vicinity of the notched ring, so that the tangs of the slotted core extractor can be engaged in the notched ring. This method of removing the soil retaining cylinders prevents disturbance of the soil samples.

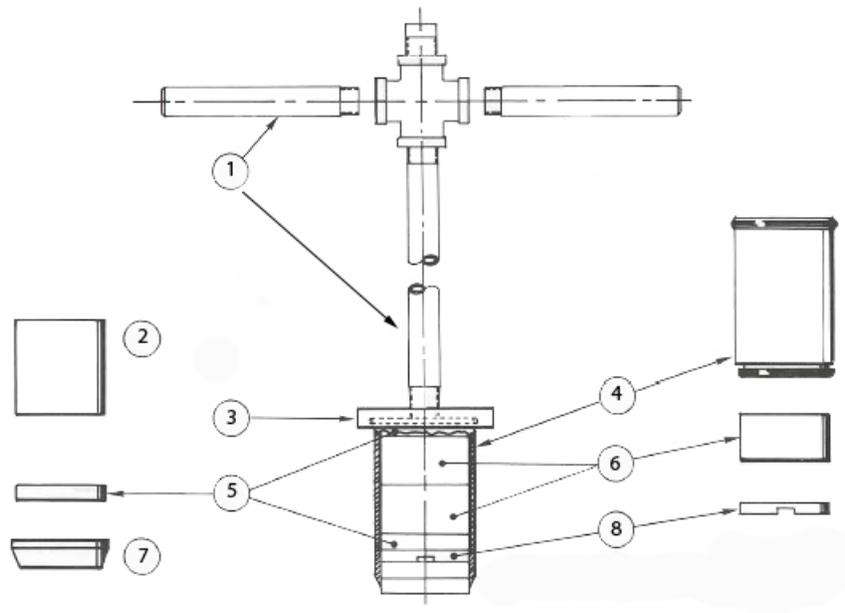
You will also note that a 1 cm long cylinder is placed at either end of the core retaining cylinder. These 1 cm long cylinders are referred to as “guard rings.” After a sample has been taken and the complete set of retainer cylinders moved from the sampler, the 1 cm long “guard rings” are removed from either end of the assembly to permit trimming of the soil cores.

The sampler holds two (2) each of the 3 cm long retaining cylinders, or one (1) each of the 6 cm long retaining cylinders.

The sampler is driven into the soil by slipping the small diameter rod of the cylindrical hammer down into the handle of the sampler. This serves as guide for the hammer. The large end of the hammer is then lifted and dropped to drive the barrel of the sampler into the soil. If cores are to be taken below the surface depth, then the surface soil is removed to the depth desired by a shovel or soil auger, and then the sample is taken as indicated above.

After the sampler has been removed from the soil, the barrel of the sampler holding the soil retaining cylinders is unscrewed from the cap so that the sample retaining cylinders can be pushed out with the core extractor.





## REPLACEMENT PARTS

ITEM	PART	DESCRIPTION	NO.
1	Z0201-100	Core Sampler Stem Assembly	
2	0206L06	Core Sampler Brass Cylinder, 6 cm, 2.25" O.D.	
3	Z0201-004	Core Sampler Cap	
4	Z0201-003	Core Sampler Barrel	
5	0206L01	Core Sampler Guard Ring, Brass, 1 cm	
6	0206L03	Core Sampler Brass Cylinder, 3 cm, 2.25" O.D.	
7	Z0201-002	Wedge Coring Tip, 2.25" O.D.	
8	Z0201-009	Slotted Extractor Ring	
	Z0202	Core Sampler Drive Hammer (not shown)	
	Z0203	Core Sampler Spanner Wrench (not shown)	
	Z0204	Slotted Core Extractor (not shown)	
	MSL048	Strap Wrench, 6" (not shown)	
	0209	Cylinder Caps, 6 each (not shown)	

### OPTIONAL

Y0201-003L08 Core Sampler Barrel, Special, 8" (not shown)

### Thread Sizes:

Stem Assembly 1/2 inch NPT  
 Cap 2-1/2 - 16 UN-2B  
 Tip 2-1/4 - 32 UNSF-2B

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