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UL 7700-2-5

**Outline of Investigation for Portable Pneumatic Tools; Part 2: Particular
Requirements for Circular Saws and Circular Knives**

Issue Number: 2

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Summary of Topics

This second issue of the Outline of Investigation for Portable Pneumatic Tools; Part 2: Particular Requirements for Circular Saws and Circular Knives, UL 7700-2-5, has been published to address editorial updates.

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1 Scope

This Section of Part 1 is applicable except as follows:

Modify 1.1 as follows:

The term "tool" is replaced with "circular saws and circular knives."

2 Components

This Section of Part 1 is applicable.

3 Undated References

This Section of Part 1 is applicable.

4 Units of Measurement

This Section of Part 1 is applicable.

5 Glossary

This Section of Part 1 is applicable.

6 General Requirement

This Section of Part 1 is applicable.

7 General Notes on Tests

This Section of Part 1 is applicable.

8 Marking

This Section of Part 1 is applicable except as follows:

8.1 *Item (j), Add the following:*

Exception: Does not apply to saws designed specifically for cutting metal.

Add paragraphs:

8.1.101 An arrow indicating the direction of rotation. The arrow shall be raised, recessed, or distinguishable by other means no less visible and indelible.

Exception: Does not apply to random orbit type sanders, polishers or buffers.

8.1.102 "DANGER" "Risk of Injury to Persons. Keep hands and body away from blade. Contact with blade will result in serious injury."

8.1.103 "WARNING" "Risk of Injury to Persons. Check to see that lower guard closes instantly! Hold saw with both hands. Support and clamp work."

Exception: For a circular saw blade with 140 mm (5.5 in) or smaller diameter blade, the "Hold saw with both hands" statement is not required.

9 Instruction Manual

This Section of Part 1 is applicable except as follows:

9.2.3 Under **Personal Safety**, items (i), (j) and (k), *Add the following:*

Exception: Does not apply to a saw designed specifically for cutting metal.

Under **Personal Safety**, *Add the following items:*

l) **DANGER! Keep hands and body away from cutting area and blade. Keep your second hand on auxiliary handle or motor housing.** Contact with the blade will result in a serious injury.

Note: For a circular saw with 140 mm (5.5 in) or smaller diameter blade, the "Keep your second hand on auxiliary handle or motor housing" may be omitted.

m) **Keep your body positioned to either side of the saw blade, but not in line with the saw blade.** Kickback could cause the saw to jump backwards.

n) **Do not reach underneath the work.** The guard does not protect you from the blade below the work.

o) **Never hold a piece being cut in your hands or across your leg.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

Under **Tool Use and Care**, *Add the following items:*

i) **Check lower guard for proper closing before each use. Do not operate saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If saw is accidentally dropped, lower guard might be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

Note: Alternate wording may be substituted for "retracting handle."

j) **Check the operation and condition of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard might operate sluggishly due to damaged parts, gummy deposits, or a buildup of debris.

k) **Lower guard should be retracted manually only for special cuts such as "pocket cuts" and "compound cuts." Raise lower guard by retracting handle. As soon as blade enters the material, lower guard must be released.** For all other sawing, the lower guard should operate automatically.

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