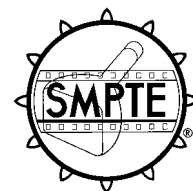


## Audio and Picture Synchronization on Motion-Picture Film Relative to the Universal Leader for Magnetic and Photographic Records

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### 1 Scope

It is the purpose of this practice to standardize the photographic and magnetic synchronizing signals and their position relative to the SMPTE Universal Leader, as specified in ANSI/SMPTE 55.

### 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this practice. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this practice are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

ANSI/SMPTE 55-1992, Motion-Picture Film —  
35- and 16-mm Release Prints – Leaders and Cue  
Marks

### 3 Usage

Two major areas for this synchronizing information are (a) in editing and rerecording operations and (b) in preparing printing materials in the laboratory. During the latter, the signal position may be used for visual and aural checking of synchronization of release prints. The synchronizing information, therefore, applies to both magnetic and photographic audio records.

### 4 Synchronizing signal

The synchronizing signal shall consist of a length equivalent to one picture frame of 1000 Hz sine wave  $\pm 10\%$ . Modulation shall be at least 80%.

### 5 Location

The signal shall be so located on the audio track as to coincide with the single No. 2 (2-second) frame of the SMPTE Universal Leader, when audio track and picture are aligned in editorial (parallel) sync.