

FOIL

All the samples shown on the cover photos were made using 1/4 inch foil. If you prefer, you can use 7/32 inch, but thinner than that will make the finished assembly unnecessarily weak. Thin foil might look attractive, but if it's too thin it produces a piece that is wobbly and can easily come apart.

CUTTING

A glass saw is NOT needed to cut out any of these designs. All the instruments shown in the cover photos were cut entirely by hand with a regular Toyo cutter.

VIDEO CLIPS

The following short video clips are provided to help demonstrate how to build your guitar:

- 1 Neck & head assembly
- 2 Fret assembly
- 3 Filling rings
- 4 Tuning nuts
- 5 Tuning peg wires
- 6 Attaching tuning pegs
- 7 Body assembly
- 8 Leading body
- 9 Attaching neck to body
- 10 Pick guard
- 11 Bridge
- 12 Bridge pegs
- 13 Attaching strings to tuning nuts
- 14 Mid neck string attachment
- 15 Attaching strings to bridge

PHOTOS

To support the video clips the following photos are included that you can enlarge to view in greater detail than can be seen on the video clips:

- 1 Finished frets
- 2 Tuning nuts
- 3 Strings attached to tuning nuts
- 4 Strings attached to mid neck
- 5 Completed strings

GLASS

The colors shown are only those we choose to use for the samples. There's a huge selection of colors you can pick from that would be equally appropriate. Don't forget that guitars come in some pretty wild colors. Have fun. Dare to be different. Pick something really outrageous.

- A Ivory
- B Light Amber streaked
- C Medium Amber streaked
- D Dark Amber streaked
- E Opaque Black

FRET ASSEMBLY

Place the Neck Assembly on the Assembly Diagram and solder on 14 gauge wire frets as shown in the photo below. It's easiest if you leave these wires overhanging the side and cut the excess length off after soldering both ends of each fret.



COPPER FOIL

- Apply copper foil only about ¼" past where the seam will be exposed. Do not foil where the glass is to be wrapped in lead.

NECK & HEAD ASSEMBLY

- Solder the **HEAD** to the **NECK** and wrap this assembly in 1/8" lead. Attach as shown in **Video 1**.

FRET ASSEMBLY

- Use the **Assembly Diagrams** as guides to attach 14 gauge wire as frets as shown in **Video 2** and **Photo 1**.

FILLING RINGS

- Make wire rings with 18g wire as shown in **Working With Wire Videos** and fill with solder as shown in **Video 3**.

TUNING NUTS

- Make tuning **NUTS** with solder-filled 14g wire and attach to **HEAD** as shown in **Video 4** and **Photo 2**.

TUNING PEG WIRES

- Attach **TUNING PEG WIRES** as shown in **Video 5**.

TUNING PEGS

- Foil and tin **TUNING PEGS**. Make and attach as shown in **VIDEO 6**.

BODY ASSEMBLY

- Attach the **Neck Assembly** to the **BODY** as shown in **Video 7**.
- Wrap the **BODY** in 1/8" lead as shown in **Video 8**.
- Attach **NECK** to **BODY** as shown in **Video 9**.

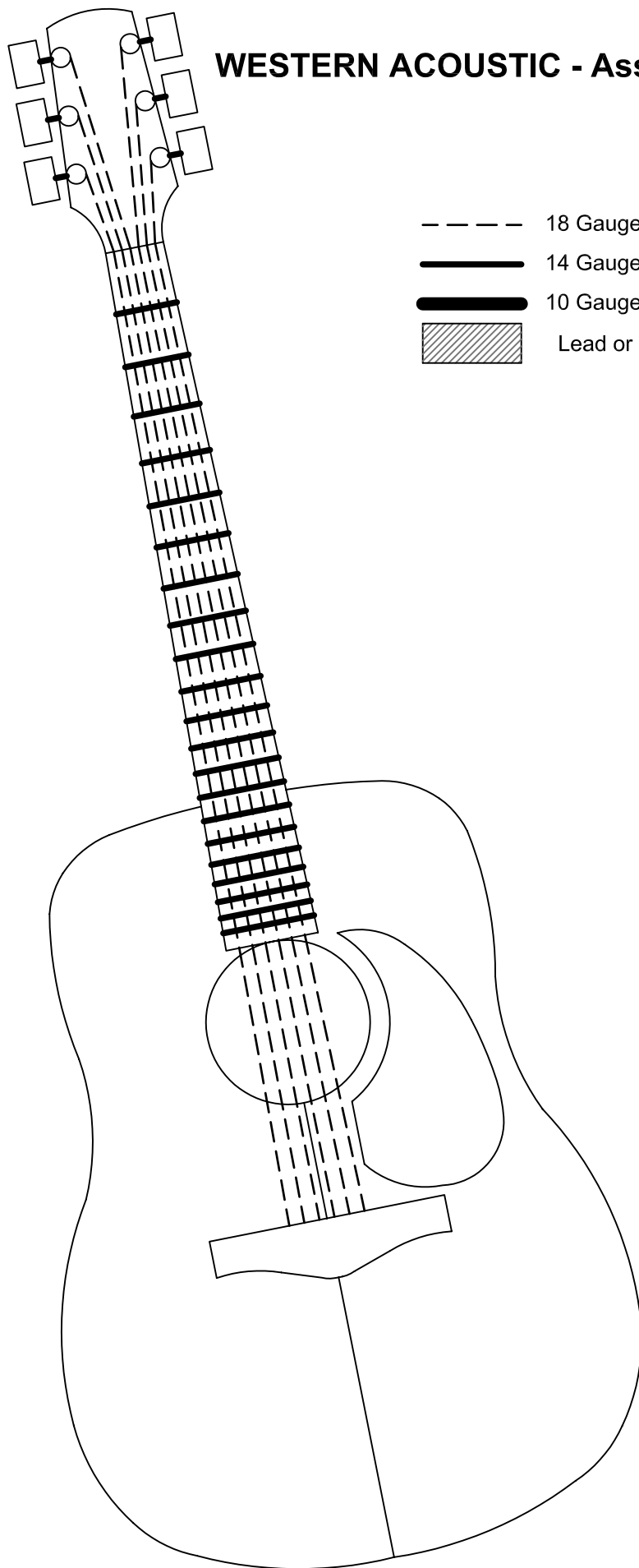
BODY COMPONENTS

- Foil and tin **PICK GUARD** and attach as shown in **Video 10**.
- Foil and tin **BRIDGE** and attach as shown in **Video 11**.
- Make **BRIDGE PEGS** with 18g wire as shown in **Video 12**.

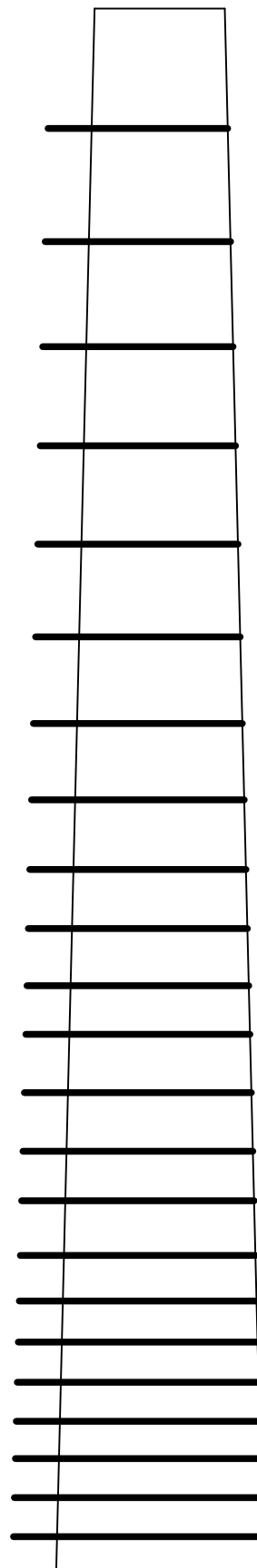
STRINGS

- Attach **STRINGS** to **BRIDGE PEGS** as shown in **Video 13** and **Photo 3**.
- Attach **STRINGS** to mid **NECK** as shown in **Video 14** and **Photo 4**.
- Attach **STRINGS** to **BRIDGE** as shown in **Video** and **Photo 5**.

WESTERN ACOUSTIC - Assembly Diagram



- 18 Gauge Wire
- 14 Gauge Wire
- 10 Gauge Wire
- Lead or Zinc



ACOUSTIC - Cutting Pattern

SOUND HOLE
E

BODY
C

ACOUSTIC - Cutting Pattern

