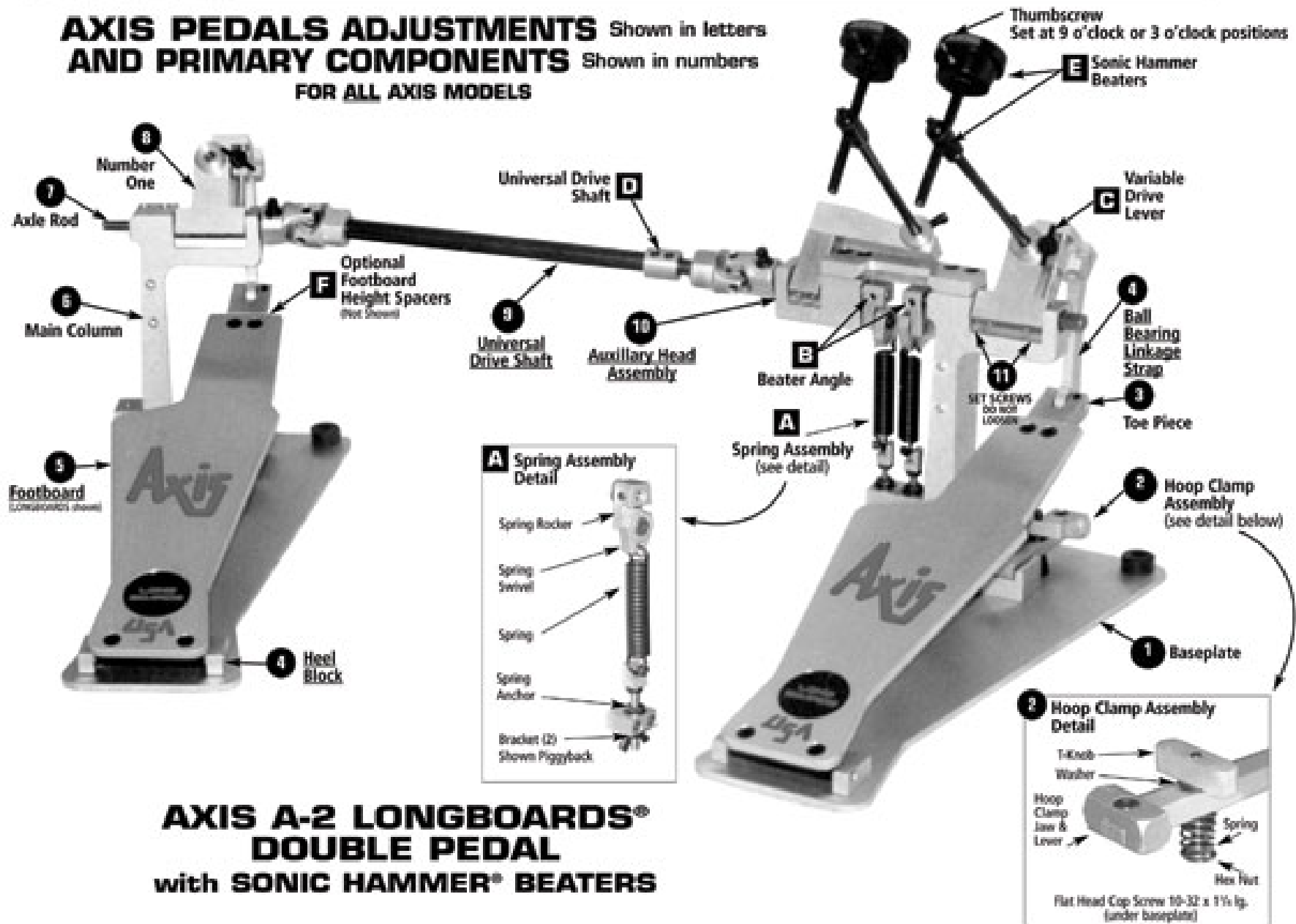


# AXIS SETTING AND ADJUSTMENT SHEET

**AXIS PEDALS ADJUSTMENTS** Shown in letters  
**AND PRIMARY COMPONENTS** Shown in numbers  
**FOR ALL AXIS MODELS**



**AXIS A-2 LONGBOARDS®  
 DOUBLE PEDAL  
 with SONIC HAMMER® BEATERS**

# LEGEND FOR SETTING AND ADJUSTMENT SHEET



**AXIS PERCUSSION** takes great pride in specializing in precision foot pedals and drum hardware. Our products are fabricated from solid stock, each part being machined in our factory in Carson, California, U.S.A. We are dedicated to the highest level of quality and craftsmanship.

## AXIS PEDALS ADJUSTMENTS

- A** **SPRING ASSEMBLY** — The spring “pull down” anchors are secured by tightening a wing-nut when the desired spring tension is reached. (Note: the superior balance and structural rigidity of **AXIS** pedals allows maximum rebound and performance at very light spring tensions.) Tension Springs — Regular Duty Springs shown. Heavy Duty Springs available.
- B** **BEATER ANGLE** — This very important adjustment can be easily overlooked. Two (2) set screws (one front side, one back side) lock the spring assembly to the main axle. To set the distance in which the beater comes to rest away from the drumhead, loosen set screws, position beater to preferred angle, re-secure the (2) set screws.
- If the pedal feels too heavy or sluggish, set the beater to rest closer to the drumhead, or if the pedal feels too light, increasing the beater angle (distance from drumhead) will add velocity and power to the stroke.
- C** **AXIS A SERIES Only — VARIABLE DRIVE LEVER.** Please see “**VARIABLE DRIVE**” — **SETTING** on page 1.
- D** For all **AXIS** Double Pedals — **UNIVERSAL DRIVE SHAFT.** The **UNIVERSAL DRIVE SHAFT** connects the **AXIS** Doubles. The all ball bearing construction gives **AXIS** Doubles a level of performance all it's own. Each end of the **UNIVERSAL DRIVE SHAFT** connects over “hex bar” ends of the axles. Drum key lock screws secure the swivels. Loosening the set screws (3) at D, will allow the telescoping inner rod to be free. When the desired position of both pedals (and also the footboard angles) is reached, the (3) set screw secure the assembly. (Note: Since the inner rod has not “flats”, the footboard angle of the slave pedal can be set with an additional degree of flexibility.)
- E** **SONIC HAMMER BEATERS** — Drum key lock screws secure the transverse upper rods. (Note: **AXIS A SERIES** have exceptional response with the rods set to full or nearly full extension., Thumbscrews secure the delrin beater head to keep the impact contact flat to the drumhead. The hard felt, cork or bare delrin striking surfaces can be selected.
- F** Optional **FOOTBOARD HEIGHT SPACERS** (Not shown). These can be inserted if a higher footboard angle is preferred.

## PARTS OF THE PEDALS

- 1** **BASEPLATE**
- 2** **HOOP CLAMP ASSEMBLY** (see detail picture)
- 3** **TOE PIECE**
- 4** **BALL BEARING LINKAGE STRAP**
- 5** **FOOTBOARD** (LONGBOARDS shown)
- 6** **MAIN COLUMN**
- 7** **AXLE ROD**
- 8** **NUMBER ONE**  
(Our name for Main Rotor and Beater Holder)
- 9** **UNIVERSAL DRIVE SHAFT**
- 10** **AUXILIARY HEAD ASSEMBLY**  
for all Axis Double Pedals
- 11** **SET SCREWS** Locking #1 Rotor to Axle Rod —  
**DO NOT LOOSEN**

Note: The **LONGBOARDS UPGRADE KIT** will retrofit any existing **AXIS** pedal.

For any further questions, please call **AXIS PERCUSSION** for technical support at **(888) 549-2947**.

### NON-WARRANTY RECONDITIONING SERVICE

For pedals no longer under warranty, **AXIS PERCUSSION** offers reconditioning services.

Reconditioning for an **AXIS** single pedal (A, X, LONGBOARDS) — \$39.95

Reconditioning for an **AXIS** double pedal (A, X, LONGBOARDS) — \$69.95

Reconditioning prices do not include shipping and handling.

# AXIS II DOUBLE PEDAL — ASSEMBLY AND SET-UP

## A COMPLETE DOUBLE PEDAL

- Set bass drum in desired position **PRIOR** to attaching **AXIS-II**.
- Attach right (primary) pedal to bass drum rim, tighten clamp.
- Place left (slave) pedal in desired position.
- Loosen (Ø2) drum lugs in center of driveshaft. Telescope driveshaft and attach u-joint fittings to 3/8" hex connectors, tighten drum lugs.

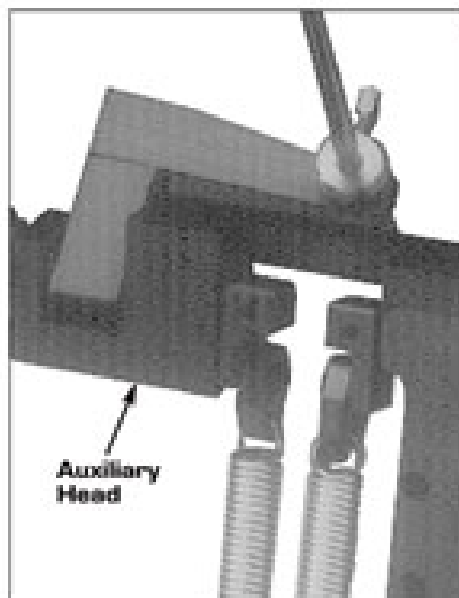
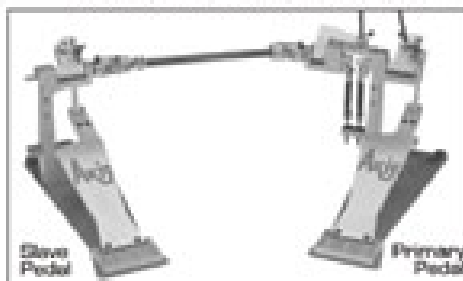
**NOTE:** Drum lugs at hex connectors must hit a flat surface, **NOT** at an angle for maximum retention. Either end of driveshaft may be attached first. Leave center drum lugs loose for now.

- Lift left (slave) footboard to match angle of right (primary) pedal footboard. While holding position, tighten center drum lugs to set position.

**NOTE:** Failure to set proper footboard angle on left slave side may cause the footboard to hit rim clamp assembly.

- Insert beaters into bushings on right (primary) pedal, tighten drum lugs. You are now ready to make your final adjustments.

**SEE ADJUSTMENT SHEET.**



## B DOUBLE AS TWO SINGLE PEDALS

- First remove the driveshaft from both pedals.
- Remove left beater and beater bushing drum lug from right (primary) pedal's auxiliary head and install on the left (slave) pedal.
- Remove left spring assembly from primary pedal and install on the slave pedal.

**NOTE:** Primary pedal can be used as a single **WITH** the double head attached with no detrimental effects to play or action. There is no need to remove double head once installed to utilize any of the **AXIS** configurations.

You are now ready to make your adjustments.

**SEE ADJUSTMENT SHEET.**

## C SLAVE UNIT CONVERSION

- Included in your conversion kit:
  - 1 - Slave pedal
  - 2 - Auxiliary head assembly
  - 2 - 1/4" - 20 x 1 1/4" bolts for older pedals
  - 2 - 1/4" - 20 x 1/2" bolts for newer pedals
  - 1 - Spring assembly w/double spring bracket
  - 1 - Driveshaft
  - 1 - Allen wrench package
  - 1 - Marksman Beater
- Your existing **AXIS** single pedal will become the right (primary) pedal of your new **AXIS-II**.

- First fasten the auxiliary head adaptor plate to your primary pedal head using the correct 1/4" - 20 bolts. Visually align top of plate to sides of primary pedal head, and tighten using allen wrench.

- Remove single spring bracket and install double spring bracket on primary pedal with bracket protruding towards the pedal. Single bracket now is an extra part.

- Install spring assembly on auxiliary head axle next to spring assembly on your primary pedal.

- Insert beaters into bushings on primary (right) pedal, and tighten drum lugs. Arm of left beater can be adjusted to bring beaters closer together by loosening (Ø2) allen bolts to left of beater arm. Make sure beaters don't hit each other during stroke.

## SLAVE UNIT CONVERSION (CONT.)

- Attach pedals and driveshaft as described in section A. You are now ready to make your adjustments.

**SEE ADJUSTMENT SHEET.**

## TIPS:

- Keep U-Joint well packed with lubricant for best results. We suggest Lithium grease.
- Always remove the driveshaft from both pedals prior to lifting pedals from playing surface to prevent damage to rod.
- Do not attempt to make any adjustments on the pedals except as shown in the **ADJUSTMENT SHEET**. Any attempts to make non-user serviceable adjustments and/or repairs will void the pedals' warranty.
- Please contact our Tech. Department at (310) 549-1171 if you have any questions.

**AXIS**  
PERCUSSION

24416 S. MAIN ST., SUITE #311  
CARSON, CA 90745  
TELEPHONE: (310) 548-1171  
FAX: (310) 548-7728  
www.axispercussion.com

## CONVERTING TWO AXIS SINGLE PEDALS INTO ONE DOUBLE PEDAL SYSTEM

### PARTS LIST (AXIS II CONVERSION KIT/AX-2CK)

- (1) AUXILIARY DRIVE HEAD WITH BRIDGE BAR.
- (1) UNIVERSAL DRIVE SHAFT.
- (1) SPRING BRACKET.
- (1) 1/4" DIA. AXLE WITH HEX END AND BEARING ATTACHED.
- (1) HARDWARE AND TOOL PACK.

**NOTE:** Its ideal to prepare a workbench for completing this job, although not absolutely necessary. The following items can make the process much easier, safer and quicker.

- 1) Small hammer or mallet.
- 2) Punch pin (such as a metal rod or long nail) with a dia. under 1/4". 3-4" length is best.
- 3) Small metal handfile.
- 4) Bench vise.

### DIRECTIONS FOR INSTALLATION

- 1) Determine which pedal will be the slave pedal.  
**Note:** The slave pedal will require the hex drive axle (which extends outward on the right side of pedal) to connect to the universal drive shaft.
- 2) If neither pedal has hex drive axle, replace main axle with hex drive axle.
  - A) Loosen set screws on spring swivel and slide it off of axle.
  - B) Use small file to smooth off any burrs or high spots on axle, as the burrs may keep axle from passing easily through bearing.
  - C) Remove (2) set screws at bottom end of # 1 piece.
  - D) Loosen set screw at right most side of column (located on front side).
  - E) Push (or tap with hammer) axle out from left to right side. A punch pin will help push axle out through bearing and # 1 piece.
  - F) Insert hex drive axle from right to left (reverse of removal). it should slip through # 1 piece, line up with inset bearing (still in column) and extend out left side of pedal.

- G) Re-install set screws at base of # 1 piece. make sure they land on flat surface which has been ground on axle. Re-tighten.
- 3) Attach auxiliary head to primary pedal.
    - A) Fasten bridge to column with (2) 1/4-20 x 1/2" socket cap screws (supplied).
    - B) Mount 2" spring nrracket piggy-backed over existing spring bracket with (2) 8-32 x 1 1/2" socket cap screws (supplied).
  - 4) Connect universal drive shaft between pedals, adjust for position. Adjust spring tension. Adjust beater angle.
  - 5) ENJOY!

AXIS owners are invited to call our  
Tech. Support Line if you have any questions:

**1-888-549-AXIS**

[www.axispercussion.com](http://www.axispercussion.com)



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