



**MADE  
IN THE USA**

## AccuWasher® GEN2 Muzzle Device Alignment System

### INTRODUCING the AccuWasher® GEN 2 – The Ultimate Shim System for Precision Alignment.

The AccuWasher® Gen 2 system outperforms traditional stacking shims and peel washers, delivering superior alignment, durability and a flawless fit for muzzle devices.

### Engineered for Versatility & Precision

With innovative **adapters**, the AccuWasher system is now compatible with **all common thread sizes and barrel profiles**, offering:

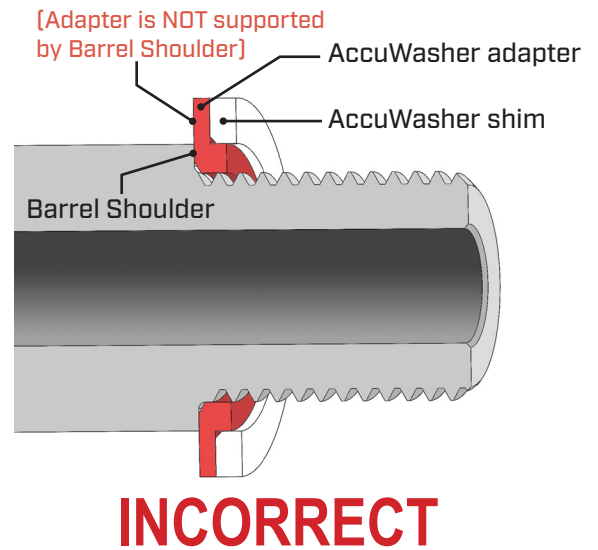
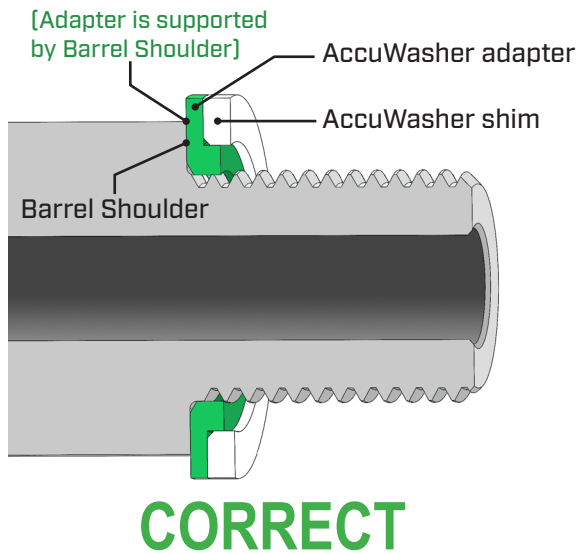
- **Broad Compatibility** – Fits nearly all common (standard and metric) thread diameters and pitches up to  $\frac{3}{4}$ ", ensuring seamless installation for a wide range of muzzle devices.
- **Proven Reliability** – The Gen 2 system remains a **single-shim system**, ensuring **superior alignment and accuracy**.
- **Optimized for Heavy Barrels** – Special large-diameter AccuWasher kits now accommodate popular heavy barrel thread sizes.
- **Sleek, Professional Finish** – Provides a clean, precision-fit look that traditional shims can't achieve.

Designed for firearm enthusiasts, gunsmiths and manufacturers, the AccuWasher Gen 2 system ensures perfect muzzle device timing with **unmatched ease and reliability**.

**IMPORTANT: READ INSTRUCTIONS COMPLETELY BEFORE INSTALLATION.**

**WARNING:** MAKE SURE FIREARM IS UNLOADED BEFORE INSTALLATION. VISUALLY INSPECT CHAMBER, MAGAZINE, AND FIRING MECHANISM TO BE CERTAIN NO AMMUNITION IS IN THE FIREARM.

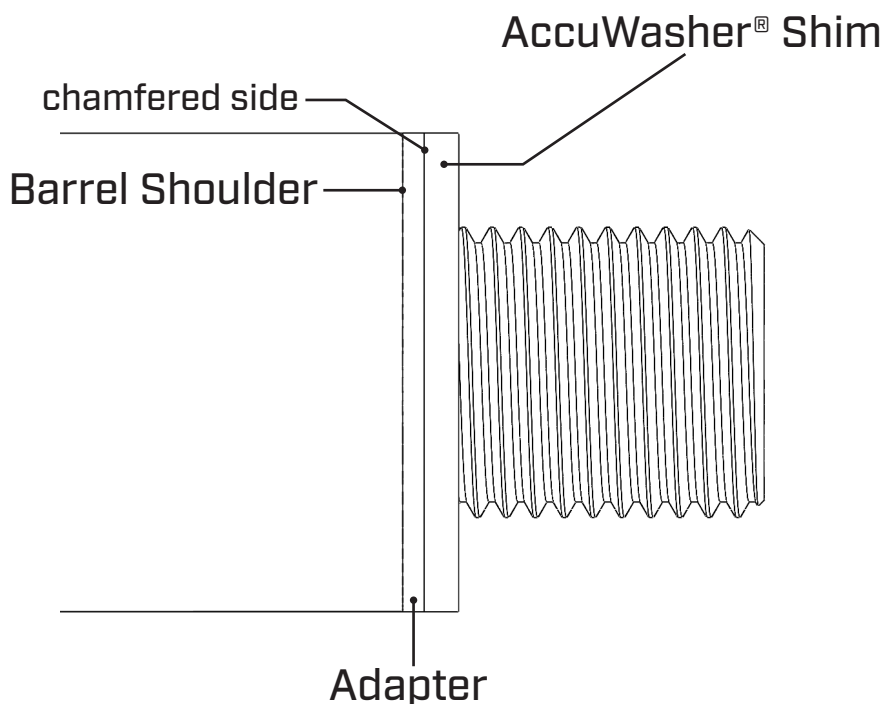
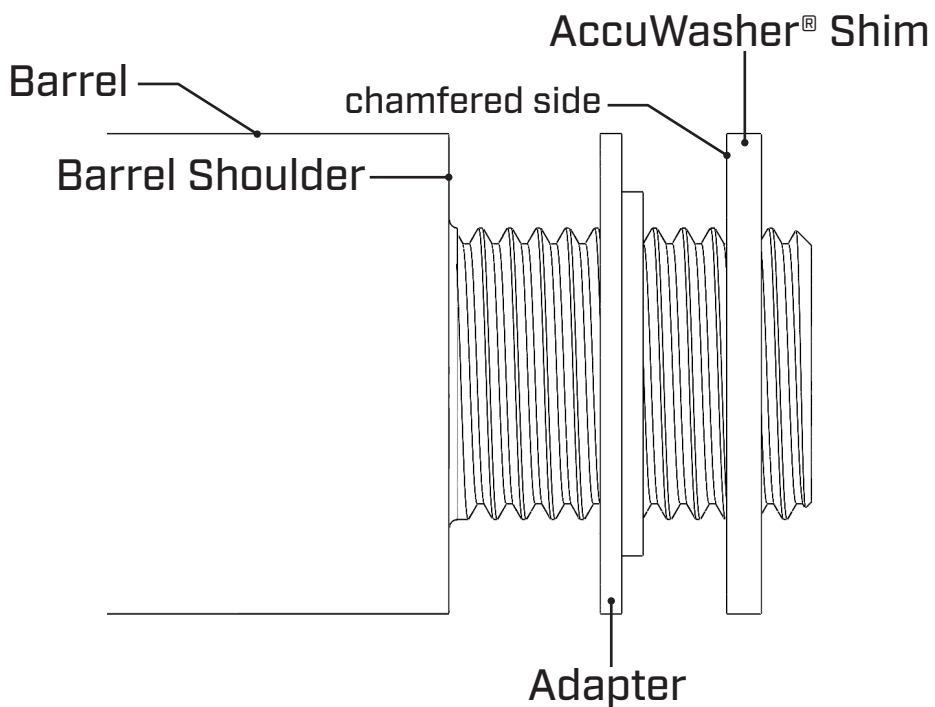
**NOTE:** If using adapters for installation, please reference Minimum Barrel Diameters table to ensure proper support of shim.



## Minimum Barrel Diameters

Adapter	Minimum Barrel Diameter
1/2" thread to 5/8" adapter	.750"
1/2" thread to 3/4" adapter	.825"
9/16" thread to 5/8" adapter	.788"
15mm thread to 5/8" adapter	17.5mm
5/8" thread to 3/4" adapter	.825"
11/16" thread to 3/4" adapter	.800"
18mm thread to 3/4" adapter	20.5mm

**INSTALLATION:** This system includes multiple AccuWasher shims used to adjust muzzle device rotation in small increments. Only one shim is required for proper alignment. Each AccuWasher shim is marked by a series of two different width lines to indicate its relative thickness - a wide mark indicates a value of 5, a thin mark indicates a value of 1, and values combine for a total (refer to charts below). Each shim is chamfered on one side to allow clearance for barrels with radiused thread shoulders.



# 28 PITCH INSTALLATION GUIDE

1. Locate the thickest (#18) shim marked ( **III III** ).
2. Make sure all contact surfaces on shim, thread shoulder, and muzzle device are clean and free of debris. Seat #18 shim, chamfered side towards barrel shoulder, over muzzle threads and install muzzle device hand tight.

**NOTE:** If using adapter, place adapter against barrel shoulder prior to #18 shim.

3. Sight down barrel and visually estimate the amount of additional rotation required for proper muzzle device alignment. Refer to chart to select the correct size shim.
4. Remove the #18 shim and install shim selected in Step 3 with chamfered side towards barrel shoulder. Torque muzzle device to correct alignment. Note: device will rotate additional 10-30 degrees\* from hand tight position depending on final tightening torque (~25 ft lb).
5. If excessive torque is required for alignment, use one number smaller. If torque is too low, use one number larger.

\*Applying grease to both mating surfaces of shim prior to final installation reduces friction resulting in increased rotation for a given torque load.

28 Pitch Installation Chart		
(1/2x28)		
Shim #	Additional Degrees Required	Marks
18	20	III III
17	40	III II
16	60	III I
15	80	III
14	100	II IIII
13	120	II III
12	140	II II
11	160	II I
10	180	II
9	200	I IIII
8	220	I III
7	240	I II
6	260	I I
5	280	I
4	300	IIII
3	320	III
2	340	II
1	360	I

# 24 PITCH INSTALLATION GUIDE

1. Locate the thickest (#21) shim marked (|||| |).
2. Make sure all contact surfaces on shim, thread shoulder, and muzzle device are clean and free of debris. Seat #21 shim, chamfered side towards barrel shoulder, over muzzle threads and install muzzle device hand tight.  
**NOTE:** If using adapter, place adapter against barrel shoulder prior to #21 shim.
3. Sight down barrel and visually estimate the amount of additional rotation required for proper muzzle device alignment. Refer to chart to select the correct size shim.
4. Remove the #21 shim and install shim selected in Step 3 with chamfered side towards barrel shoulder. Torque muzzle device to correct alignment. Note: device will rotate additional 10-30 degrees\* from hand tight position depending on final tightening torque (~25 ft lb). If excessive torque is required for alignment, use one number smaller. If torque is too low, use one number larger.

\*Applying grease to both mating surfaces of shim prior to final installation reduces friction resulting in increased rotation for a given torque load.

24 Pitch Installation Chart		
(1/2x24) (9/16x24) (5/8x24) (11/16x24) (3/4x24)		
Shim #	Additional Degrees Required	Marks
21	17	
20	34	
19	51	
18	69	
17	86	
16	103	
15	120	
14	137	
13	154	
12	171	
11	189	
10	206	
9	223	
8	240	
7	257	
6	274	
5	291	
4	309	
3	326	
2	343	
1	360	

# 1mm PITCH INSTALLATION GUIDE

1. Locate the thickest (#20) shim marked (IIII).
2. Make sure all contact surfaces on shim, thread shoulder, and muzzle device are clean and free of debris. Seat #20 shim, chamfered side towards barrel shoulder, over muzzle threads and install muzzle device hand tight.

**NOTE:** If using adapter, place adapter against barrel shoulder prior to #20 shim.

3. Sight down barrel and visually estimate the amount of additional rotation required for proper muzzle device alignment. Refer to chart to select the correct size shim.
4. Remove the #20 shim and install shim selected in Step 3 with chamfered side towards barrel shoulder. Torque muzzle device to correct alignment. Note: device will rotate additional 10-30 degrees\* from hand tight position depending on final tightening torque (~25 ft lb).
5. If excessive torque is required for alignment, use one number smaller. If torque is too low, use one number larger.

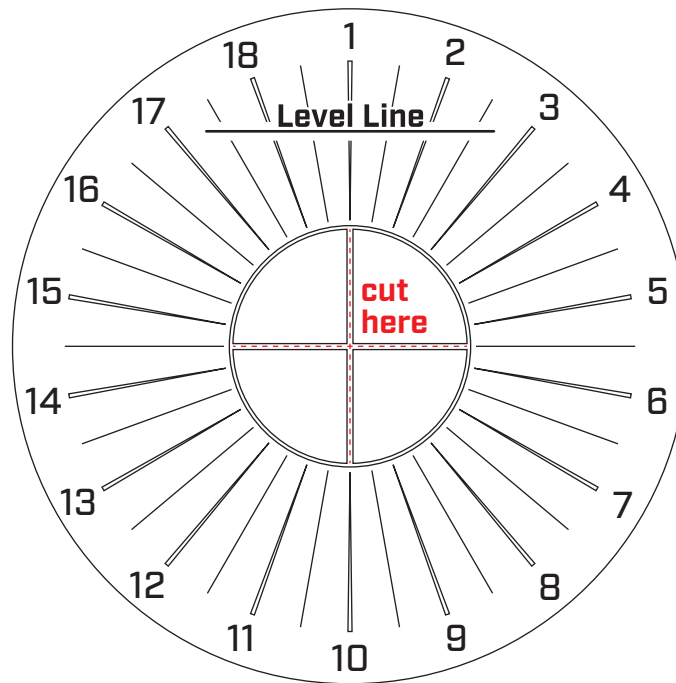
\*Applying grease to both mating surfaces of shim prior to final installation reduces friction resulting in increased rotation for a given torque load.

1mm Pitch Installation Chart		
(M15x1) (M18x1)		
Shim #	Additional Degrees Required	Marks
20	18	IIII
19	36	III IIII
18	54	III III
17	72	III II
16	90	III I
15	108	III
14	126	II IIII
13	144	II III
12	162	II II
11	180	II I
10	198	II
9	216	I IIII
8	234	I III
7	252	I II
6	270	I I
5	288	I
4	306	IIII
3	324	III
2	342	II
1	360	I

# 28 Pitch Timing Chart

**TOP ↑**

## Shim Number



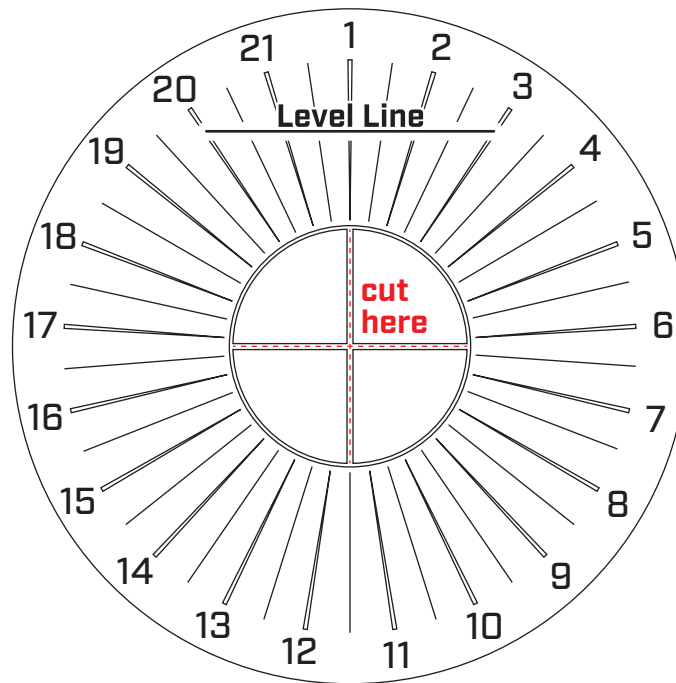
### How to use this timing tool:

1. Slit center X to slide timing tool over barrel. Face outwards.
2. Install adapter. (If no adapter is needed, skip to step 3)
3. Install Index Shim 18.
4. Thread on muzzle device, hand tight.
5. Select shim number which aligns with top of the muzzle device.
6. Remove muzzle device, index shim and timing tool.
7. Locate and install identified shim number using Pitch Installation Chart

# 24 Pitch Timing Chart

**TOP ↑**

## Shim Number



### How to use this timing tool:

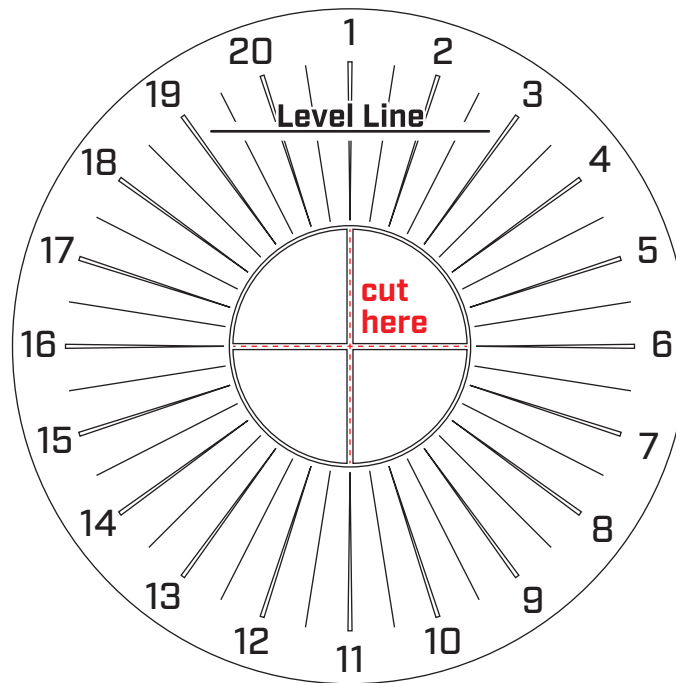
1. Slit center X to slide timing tool over barrel. Face outwards.
2. Install adapter. (If no adapter is needed, skip to step 3)
3. Install Index Shim 21.
4. Thread on muzzle device, hand tight.
5. Select shim number which aligns with top of the muzzle device.
6. Remove muzzle device, index shim and timing tool.
7. Locate and install identified shim number using Pitch Installation Chart



# 1mm Pitch Timing Chart

**TOP ↑**

## Shim Number



**How to use this timing tool:**

1. Slit center X to slide timing tool over barrel. Face outwards.
2. Install adapter. (If no adapter is needed, skip to step 3)
3. Install Index Shim 20.
4. Thread on muzzle device, hand tight.
5. Select shim number which aligns with top of the muzzle device.
6. Remove muzzle device, index shim and timing tool.
7. Locate and install identified shim number using Pitch Installation Chart