Timing and Position
The AMMQC program is an Equal Opportunity program. Adaptive equipment is available upon request for individuals with disabilities.

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COMPONENTS OF A MACHINE
POSITION, STROKE & TIMING

Position - Where a component is located any point in time, relative to a starting position

Stroke - The linear distance traveled by the slider in one direction from its starting position

Timing - When an action takes place in time, relative to a set start time
POSITION ADJUSTMENT

Rotating turn-buckle sleeve varies length X

Position Indicator
POSITION AND STROKE ADJUSTMENT

Relocating Clevis to Point 1 or 3 will change the Stroke and Position of the Slider.
POSITION AND STROKE ADJUSTMENT

Turn-buckle Clevis at Adjustment No. 1

At 0° angle (start position)
Position = 61/64”

At 180° angle (end position)
Position = 1 – 62/64”

Stroke = (1-62/64”) – 61/64” = 2-1/64”
POSITION AND STROKE ADJUSTMENT

Turn-buckle Clevis at Adjustment  No. 2

At 0° angle (start position)  
Position = 1”

At 180° angle (end position)  
Position = 2 – 7/32”

Stroke = (2-7/32”) – 1” = 1-7/32”
POSITION AND STROKE ADJUSTMENT

Turn-buckle Clevis at Adjustment No. 3

At 0° angle (start position)
Position = 1-13/64”

At 180° angle (end position)
Position = 2 – 40/64”

Stroke = (2-40/64”) – 1-13/64” = 1-27/64”
POSITION, STROKE AND TIMING
POSITION, STROKE AND TIMING

Cam Follower on Pin B

At 0° angle (start position)
Position = 61/64"

At 180° angle (end position)
Position = 1 – 62/64"

Stroke = (1-62/64”) – 61/64” = 1-1/64”
POSITION, STROKE AND TIMING

Cam Follower on Pin A

15.5° angle (start position)
Position = 26/64”

195.5° angle (end position)
Position = 1 – 62/64”

Stroke = (1-62/64”) – 26/64” = 1-36/64” = 1-9/16
POSITION, STROKE AND TIMING

Cam Follower on Pin C

345° angle (start position)  
Position = 50/64”

165° angle (end position)  
Position = 1 – 37/64”

Stroke = (1-37/64”) – 50/64” = 51/64”
CAM LIFT AND DWELL

Max. R 2.4”

Min. R 2.0”

Lift = Max. Radius - Min Radius = 2.4” - 2.0” = .4”