

## Taper-Lock Type Bushing Installation:

- 1. Clean the shaft, bushing bore. tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Insert bushing into sprocket hub matching hole patterns, not threaded holes.
- 3. With the key in the shaft keyway, position the assembly onto the shaft at the desired location. Allow for small axial sprocket movement on bushing during tightening.
- 4. Alternately torque screws to the recommended torque level specified in the table. Do not over-torque!

Sprocket Installation										
Bushing Size		Bolts		ench ols	Torque Wrench					
Bust Siz	Qty.	Size	Type Size		lb-ft	lb-in				
1108	2	1/4-20 x 1/2	Hex	1/8	4.6	55				
1210	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
1610	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
2012	2	7/16-14 x 7/8	Hex	7/32	23.3	280				
2517	2	1/2-13 x 1	Hex	1/4	35.8	430				

# Taper-Lock Type Bushina Removal:

- 1. Release belt tension and lift belt off of sprocket.
- 2. Loosen and remove screws securing sprocket to bushing.
- 3. Insert screws into removal holes.
- 4. Alternately tighten screw or screws in small but equal increments until sprocket is disengaged from bushing.



## Taper-Lock Type Bushing Installation:

- 1. Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Insert bushing into sprocket hub matching hole patterns, not threaded holes.
- 3. With the key in the shaft keyway, position the assembly onto the shaft at the desired location. Allow for small axial sprocket movement on bushing during tightening.
- 4. Alternately torque screws to the recommended torque level specified in the table. Do not over-torque!

Sprocket Installation										
Bushing Size		Bolts		ench ols	Torque Wrench					
	Qty.	Size	Туре	Size (in)	lb-ft	lb-in				
1108	2	1/4-20 x 1/2	Hex	1/8	4.6	55				
1210	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
1610	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
2012	2	7/16-14 x 7/8	Hex	7/32	23.3	280				
2517	2	1/2-13 x 1	Hex	1/4	35.8	430				

# Taper-Lock Type Bushing Removal:

- 1. Release belt tension and lift belt off of sprocket.
- 2. Loosen and remove screws securing sprocket to bushing.
- 3. Insert screws into removal holes.
- 4. Alternately tighten screw or screws in small but equal increments until sprocket is disengaged from bushing.



## Taper-Lock Type Bushing Installation:

- 1. Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Insert bushing into sprocket hub matching hole patterns, not threaded holes.
- 3. With the key in the shaft keyway, position the assembly onto the shaft at the desired location. Allow for small axial sprocket movement on bushing during tightening.
- 4. Alternately torque screws to the recommended torque level specified in the table. Do not over-torque!

Sprocket Installation										
Bushing Size		Bolts		ench ols	Torque Wrench					
	Qty.	Size	Туре	Size (in)	lb-ft	lb-in				
1108	2	1/4-20 x 1/2	Hex	1/8	4.6	55				
1210	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
1610	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
2012	2	7/16-14 x 7/8	Hex	7/32	23.3	280				
2517	2	1/2-13 x 1	Hex	1/4	35.8	430				

# Taper-Lock Type Bushing Removal:

- 1. Release belt tension and lift belt off of sprocket.
- 2. Loosen and remove screws securing sprocket to bushing.
- 3. Insert screws into removal holes.
- 4. Alternately tighten screw or screws in small but equal increments until sprocket is disengaged from bushing.

Rev. 1 02/15

www.AutomationDirect.com



## Taper-Lock Type Bushing Installation:

- 1. Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Insert bushing into sprocket hub matching hole patterns, not threaded holes.
- 3. With the key in the shaft keyway, position the assembly onto the shaft at the desired location. Allow for small axial sprocket movement on bushing during tightening.
- 4. Alternately torque screws to the recommended torque level specified in the table. Do not over-torque!

Sprocket Installation										
Bushing Size		Bolts		ench ols	Torque Wrench					
	Qty.	Size	Туре	Size (in)	lb-ft	lb-in				
1108	2	1/4-20 x 1/2	Hex	1/8	4.6	55				
1210	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
1610	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
2012	2	7/16-14 x 7/8	Hex	7/32	23.3	280				
2517	2	1/2-13 x 1	Hex	1/4	35.8	430				

# Taper-Lock Type Bushing Removal:

- 1. Release belt tension and lift belt off of sprocket.
- 2. Loosen and remove screws securing sprocket to bushing.
- 3. Insert screws into removal holes.
- 4. Alternately tighten screw or screws in small but equal increments until sprocket is disengaged from bushing.



## Taper-Lock Type Bushing Installation:

- 1. Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Insert bushing into sprocket hub matching hole patterns, not threaded holes.
- 3. With the key in the shaft keyway, position the assembly onto the shaft at the desired location. Allow for small axial sprocket movement on bushing during tightening.
- 4. Alternately torque screws to the recommended torque level specified in the table. Do not over-torque!

Sprocket Installation										
Bushing Size		Bolts		ench ols	Torque Wrench					
	Qty.	Size	Туре	Size (in)	lb-ft	lb-in				
1108	2	1/4-20 x 1/2	Hex	1/8	4.6	55				
1210	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
1610	2	3/8-16 x 5/8	Hex	3/16	14.6	175				
2012	2	7/16-14 x 7/8	Hex	7/32	23.3	280				
2517	2	1/2-13 x 1	Hex	1/4	35.8	430				

# Taper-Lock Type Bushing Removal:

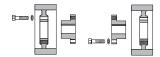
- 1. Release belt tension and lift belt off of sprocket.
- 2. Loosen and remove screws securing sprocket to bushing.
- 3. Insert screws into removal holes.
- 4. Alternately tighten screw or screws in small but equal increments until sprocket is disengaged from bushing.











Conventional Mounting

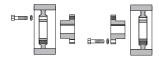
neverse Mouri

#### QD Type Bushing Installation:

- Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Determine the type of mounting that will be used.
- 3. Conventional Mounting:
- A. Insert key into the shaft keyway
- B. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- C. Slide bushing onto shaft with the flange side towards the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- D. Place sprocket onto bushing and insert cap screws. Align drilled holes in sprocket hub with tapped holes in bushing flange.
- 4. Reverse Mounting:
- A. Insert key into the shaft keyway
- B. Place sprocket onto shaft without bushing.
- C. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- D. Slide bushing onto shaft with the flange side away from the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- E. Place sprocket onto the bushing and insert cap screws. Align drilled holes in bushing flange with tapped holes in sprocket hub.
- 5. Alternately torque screws to the recommended torque level specified in the table. Do not over torque!

Sprocket Installation									
Bushing Size		Bolts	Wrench Tools		Torque Wrench				
	Qty.	Size	Туре	Size (in)	lb-ft	lb-in			
JA	3	10-24 x 1	Hex Socket	5/16	4.5	54			
SH & SDS	3	1/4-20 x 1-3/8	Hex Socket	7/16	9.0	108			
SD	3	1/4-20 x 1-7/8	Hex Socket	7/16	9.0	108			

- QD Type Bushing Removal:
  - Release the belt tension and lift belt off of sprocket.
  - Loosen and remove cap screws securing sprocket to bushing. If applicable, loosen keyway set screws.
  - 3. Insert cap screws into the tapped removal holes adjacent to the drilled holes.
  - Alternately tighten cap screws in small but equal increments until sprocket is disengaged from bushing.



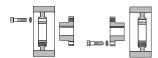
Conventional Mounting Reverse Mounting

### QD Type Bushing Installation:

- Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- Determine the type of mounting that will be used.
- 3. Conventional Mounting:
- A. Insert key into the shaft keyway
- B. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- C. Slide bushing onto shaft with the flange side towards the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- Place sprocket onto bushing and insert cap screws. Align drilled holes in sprocket hub with tapped holes in bushing flange.
- 4. Reverse Mounting:
- A. Insert key into the shaft keyway
- B. Place sprocket onto shaft without bushing.
- C. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- D. Slide bushing onto shaft with the flange side away from the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- E. Place sprocket onto the bushing and insert cap screws. Align drilled holes in bushing flange with tapped holes in sprocket hub.
- 5. Alternately torque screws to the recommended torque level specified in the table. Do not over torque!

	Sprocket Installation									
hing ze	Bolts		Wrench Tools		Torque Wrench					
Bushing Size	Qty.	Size	Туре	Size (in)	lb-ft	lb-in				
JA	3	10-24 x 1	Hex Socket	5/16	4.5	54				
SH & SDS	3	1/4-20 x 1-3/8	Hex Socket	7/16	9.0	108				
SD	3	1/4-20 x 1-7/8	Hex Socket	7/16	9.0	108				

- QD Type Bushing Removal:
  - Release the belt tension and lift belt off of sprocket.
  - Loosen and remove cap screws securing sprocket to bushing. If applicable, loosen keyway set screws.
  - 3. Insert cap screws into the tapped removal holes adjacent to the drilled holes.
  - Alternately tighten cap screws in small but equal increments until sprocket is disengaged from bushing.



onventional Mounting Reverse Mount

#### QD Type Bushing Installation:

- Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- 2. Determine the type of mounting that will be used.
- 3. Conventional Mounting:
- A. Insert key into the shaft keyway
- B. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- C. Slide bushing onto shaft with the flange side towards the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- D. Place sprocket onto bushing and insert cap screws. Align drilled holes in sprocket hub with tapped holes in bushing flange.
- 4. Reverse Mounting:
- A. Insert key into the shaft keyway
- B. Place sprocket onto shaft without bushing.
- C. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- D. Slide bushing onto shaft with the flange side away from the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- E. Place sprocket onto the bushing and insert cap screws. Align drilled holes in bushing flange with tapped holes in sprocket hub.
- Alternately torque screws to the recommended torque level specified in the table. Do not over torque!

Sprocket Installation									
hing ze		Rolts		Wrench Tools		Torque Wrench			
Bushing Size	Qty.	Size	Туре	Size (in)	lb-ft	lb-in			
JA	3	10-24 x 1	Hex Socket	5/16	4.5	54			
SH & SDS	3	1/4-20 x 1-3/8	Hex Socket	7/16	9.0	108			
SD	3	1/4-20 x 1-7/8	Hex Socket	7/16	9.0	108			

- QD Type Bushing Removal:
  - Release the belt tension and lift belt off of sprocket.
  - Loosen and remove cap screws securing sprocket to bushing. If applicable, loosen keyway set screws.
  - Insert cap screws into the tapped removal holes adjacent to the drilled holes.
  - Alternately tighten cap screws in small but equal increments until sprocket is disengaged from bushing.



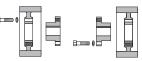
Conventional Mounting Reverse Mountin

#### QD Type Bushing Installation:

- Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- Determine the type of mounting that will be used.
- 3. Conventional Mounting:
  - A. Insert key into the shaft keyway
- B. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- C. Slide bushing onto shaft with the flange side towards the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- D. Place sprocket onto bushing and insert cap screws. Align drilled holes in sprocket hub with tapped holes in bushing flange.
- 4. Reverse Mounting:
- A. Insert key into the shaft keyway
- B. Place sprocket onto shaft without bushing.
- C. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- D. Slide bushing onto shaft with the flange side away from the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- E. Place sprocket onto the bushing and insert cap screws. Align drilled holes in bushing flange with tapped holes in sprocket hub.
- Alternately torque screws to the recommended torque level specified in the table. Do not over torque!

Sprocket Installation									
hing ze	Bolts		Wrench Tools		Torque Wrench				
Bushing Size	Qty.	Size	Туре	Size (in)	lb-ft	lb-in			
JA	3	10-24 x 1	Hex Socket	5/16	4.5	54			
SH & SDS	3	1/4-20 x 1-3/8	Hex Socket	7/16	9.0	108			
SD	3	1/4-20 x 1-7/8	Hex Socket	7/16	9.0	108			

- QD Type Bushing Removal:
  - Release the belt tension and lift belt off of sprocket.
  - Loosen and remove cap screws securing sprocket to bushing. If applicable, loosen keyway set screws.
  - Insert cap screws into the tapped removal holes adjacent to the drilled holes.
  - Alternately tighten cap screws in small but equal increments until sprocket is disengaged from bushing.



Conventional Mounting Reverse Mounting

#### QD Type Bushing Installation:

- Clean the shaft, bushing bore, tapered bushing barrel and the sprocket hub bore. (Note: Lubricants are not required.).
- Determine the type of mounting that will be used.
- 3. Conventional Mounting:
- A. Insert key into the shaft keyway
- B. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- C. Slide bushing onto shaft with the flange side towards the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- D. Place sprocket onto bushing and insert cap screws. Align drilled holes in sprocket hub with tapped holes in bushing flange.
- 4. Reverse Mounting:
- A. Insert key into the shaft keyway
- B. Place sprocket onto shaft without bushing.
- C. Insert a screw driver blade (or similar) into the bushing flange saw cut to enlarge bore slightly (Caution: excessive enlargement can split bushing).
- D. Slide bushing onto shaft with the flange side away from the equipment. Position bushing and tighten set screw to prevent sliding on shaft.
- E. Place sprocket onto the bushing and insert cap screws. Align drilled holes in bushing flange with tapped holes in sprocket hub.
- 5. Alternately torque screws to the recommended torque level specified in the table. Do not over torque!

Sprocket Installation									
hing ze		Bolts Wren				que ench			
Bushing Size	Qty.	Size	Туре	Size (in)	lb-ft	lb-in			
JA	3	10-24 x 1	Hex Socket	5/16	4.5	54			
SH & SDS	3	1/4-20 x 1-3/8	Hex Socket	7/16	9.0	108			
SD	3	1/4-20 x	Hex	7/16	9.0	108			

QD Type Bushing Removal:

- Release the belt tension and lift belt off of sprocket.
- Loosen and remove cap screws securing sprocket to bushing. If applicable, loosen keyway set screws.
- 3. Insert cap screws into the tapped removal holes adjacent to the drilled holes.
- Alternately tighten cap screws in small but equal increments until sprocket is disengaged from bushing.