FS & FD Series Gear Coupling

Service & Installation Instructions

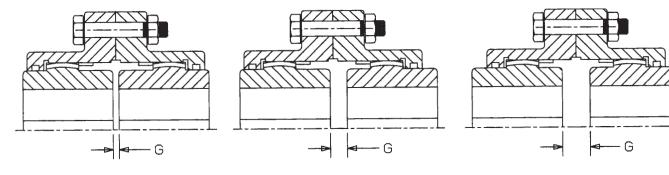
P-8519-HD-IMPERIAL Form 1227





Installation:

- 1. Be sure all components are present and free of burrs or chips.
- 2. Be certain the rubber seals are properly seated in the flanges. Coat these with a light film of grease.
- 3. Place the sleeves over the shaft ends. Care should be taken not to damage the rubber seals.
- 4. Install the hubs on the respective shafts. Interference fit hubs often require heating the hubs in hot oil or an oven to 320° F prior to installation. The hub faces should be flush with the shaft ends.
- 5. Locate the driver and driven machinery to maintain the G dimension between the driver and driven hub ends.
- 6. Using a dial indicator check the angular and parallel alignment of the hubs



Standard

One Hub Reversed

Both Hubs Reversed

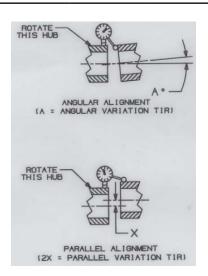
Coupling Size	1	1-1/2	2	2-1/2	3	3-1/2	4
"G" Dimension (in)							
Standard	0.13	0.13	0.13	0.19	0.19	0.25	0.25
One Hub Reversed	0.44	0.38	0.81	0.97	0.84	0.81	1.94
Both Hubs Reversed	0.75	0.63	1.50	1.75	1.50	1.38	1.63
Coupling Size	4-1/2	5	5-1/2	6	7	8	9
"G" Dimension (in)							
Standard	0.31	0.31	0.31	0.31	0.38	0.38	0.50
One Hub Reversed	1.53	1.72	1.53	1.72	1.69	1.13	1.25
Both Hubs Reversed	2.75	3.13	2.75	3.13	3.00	1.88	2.00

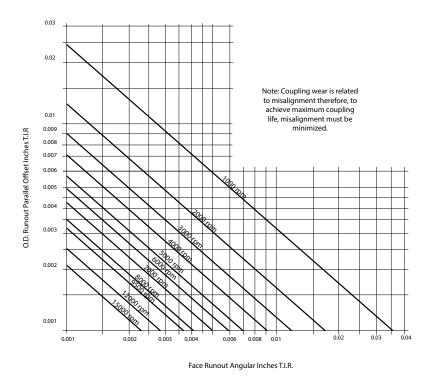
Angular Method

Attach the dial indicator to the base of one hub and the indicator needle against the face of the other hub. Rotate the hub on which the indicator base is attached, check the dial at 90° intervals. All four point should be the same reading on the dial.

Parallel Method

Attach the dial indicator to the base of one hub and the indicator needle against the OD of the other hub. Rotate the hub on which the indicator base is attached, check the dial at 90° intervals. All four point should be the same reading on the dial.





- 7. If the coupling is to be grease lubricated, coat all gear tooth areas with grease. We suggest a grease complying to AGMA9001-B97.
- 8. Install and progressively tighten the bolts with a torque wrench until the proper torque value is met.

Coupling Size	1	1-1/2	2	2-1/2	3	3-1/2	4
Torque (in-lbs)							
Exposed Bolt	130	425	940	1750	1750	2650	2650
Shrouded Bolt	130	425	425	940	940	1750	1750
Coupling Size	4-1/2	5	5-1/2	6	7	8	9
Torque (in-lbs)							
Exposed Bolt	2650	3650	3650	3650	4850	6300	8300
Shrouded Bolt	1750	2650	2650	*	*	*	*

9. Remove lubrication plugs in each sleeve, add grease until filled. **NOTE:** *If RPM is below minimum, use SAE 90 oil in lieu of grease.*

Coupling Size	1	1-1/2	2	2-1/2	3	3-1/2	4
Grease Cap (oz.)	2	3	5	9	14	18	28
Minimum RPM	529	463	411	380	348	321	301
Coupling Size	4-1/2	5	5-1/2	6	7	8	9
Grease Cap (oz.)	48	56	84	92	134	240	296
Minimum RPM	285	268	257	240	227	200	180

10. Install or refit a suitable coupling guard which complies to applicable Machine Safety and Health and Safety regulations.

Maintenance:

- 1. It is recommended that the coupling be completely flushed and relubricated after an initial break-in period of 3 million revolutions. (80 Hr @ 600 RPM)
- 2. Under normal industrial conditions the coupling should be disassembled, cleaned, and inspected every year. More severe applications may require more frequent inspection and relubrication.
- 3. During any inspection of the coupling when gear tooth wear is evident or the seal is leaking, it is recommended to replace the worn parts.
- 4. Upon reassembly after inspection always refer to the installation section for proper installation and wrench torques. Always regrease the coupling after inspection. Huco recommends the use of grease which complies with AGMA9001-B97.

NOTES

All Customer Service phone numbers shown in bold

Belted Drives and Sheaves

TB Wood's

Belted Drives Chambersburg, PA - USA 1-888-829-6637 – Press #5 For application assistance: 1-888-829-6637 – Press #7

Couplings

Ameridrives

Mill Spindles, Ameriflex, Ameridisc

Erie, PA - USA 1-814-480-5000

Gear Couplings San Marcos, TX - USA **1 -800-458-0887**

Universal Joints, Drive Shafts, Mill Gear Couplings Erie, PA - USA 1-920-593-2444

Bibby Turboflex Disc, Gear, Grid Couplings, Overload Clutches

Dewsbury, England +44 (0) 1924 460801 Boksburg, South Africa +27(0) 11 918 4270

Guardian Couplings Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings Michigan City, IN - USA 1-219-874-5248

Huco

Huco

www.huco.com Merchant Drive, Hertford Hertfordshire, SG13 7BL - England

+44 (0) 1992 501 900

Precision Couplings and Air Motors Hertford, England +44 (0) 1992 501900 Chambersburg, PA - USA 1-888-829-6637

Lamiflex Couplings

Flexible Couplings, Bearing Isolators, and Coupling Guards Cotia, SP - Brasil +55 (11) 4615-6300

Altra Industrial Motion

Couplings Cont.

TB Wood's

Elastomeric Couplings Chambersburg, PA - USA 1-888-829-6637 – Press #5 For application assistance: 1-888-829-6637 – Press #7 General Purpose Disc Couplings San Marcos, TX - USA 1-888-449-9439

Electromagnetic Clutches and Brakes

Inertia Dynamics Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes New Hartford, CT - USA 1-800-800-6445

Matrix

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes

Brechin, Scotland +44 (0) 1356 602000 New Hartford, CT - USA 1-800-825-6544

Warner Electric Electromagnetic Clutches and Brakes New Hartford, CT - USA

1-800-825-6544 For application assistance: 1-800-825-9050

Saint Barthélémy d'Anjou, France +33 (0)2 41 21 24 24 Precision Electric Coils and Electromagnetic Clutches and Brakes Columbia City, IN - USA 1-260-244-6183

Engineered Bearing Assemblies

Kilian

Engineered Bearing Assemblies Syracuse, NY - USA 1-315-432-0700

Gearing

Bauer Gear Motor *Geared Motors* Esslingen, Germany

+49 (711) 3518-0 Middlesex, NJ - USA 1-732-469-8770

Boston Gear Enclosed and Open Gearing, Electrical and Mechanical P.T. Components

Charlotte, NC - USA 1-800-825-6544 For application assistance:

1-800-816-5608

Nuttall Gear and Delroyd Worm Gear Worm Gear and Helical Speed Reducers Niagara Falls, NY - USA 1-716-298-4100

Heavy Duty Clutches and Brakes

Industrial Clutch Pneumatic and Oil Immersed Clutches and Brakes Waukesha, WI - USA 1-262-547-3357

Svendborg Brakes Industrial Brakes and Brake Systems Vejstrup, Denmark +45 63 255 255

Twiflex

Caliper Brakes and Thrusters Wichita Falls, TX - USA 1-844-723-3483 Twickenham, England +44 (0) 20 8894 1161

Wichita Clutch

Pneumatic Clutches and Brakes Wichita Falls, TX - USA **1-800-964-3262** Bedford, England +44 (0) 1234 350311

Linear Products

Warner Linear Linear Actuators

New Hartford, CT - USA 1-800-825-6544 For application assistance:

1-800-825-9050 Saint Barthélémy d'Anjou, France

+33 (0)2 41 21 24 24

Overrunning Clutches

Formsprag Clutch Overrunning Clutches

and Holdbacks Warren, MI - USA 1-800-348-0881- Press #1

For application assistance: 1-800-348-0881 — Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops Warren, MI - USA 1-800-216-3515

Stieber Clutch

Overrunning Clutches and Holdbacks Heidelberg, Germany +49 (0) 6221-30470

For information concerning our sales offices in Asia Pacific check our website www.altramotion.com.cn

