

BARE-CO PTO SHAFT SPECIFICATIONS

	Dyna	mic Capacity Minimum Life	2.	
:	Standard Shaft At	5 Degrees 1000HRS. At 10	Degrees 100 HRS.	
Wide Angle Shaft At 10 Degrees 1000HRS. At 18 Degrees 100 HRS.				
SHAFT	NOMINAL POWER		NOMINAL	ΜΑΧΙΜυΜ
SERIES	@540RPM	@1000RPM	TORQUE	SPEED
22mm 1 SERIES 62mm appear.	12KW 16HP	19КW 26НР	210NM	1100 RPM
23.8mm = 2 SERIES \$8mm approx.	16KW 21HP	26KW 35HP	270NM	1100 RPM
27mm - 4 SERIES - 4 SERIES 83mm apprex.	26KW 35HP	42KW 56HP	460NM	1100 RPM
30.22mm = = 92mm = 6 SERIES = 101mm approx.	48KW 64HP	77KW 102HP	830NM	1100 RPM
39mm 198.5mm = 8 SERIES 125mm apprex.	79KW 106HP	126KW 170HP	1390NM	1100 RPM
36mm 1 99 mm W2500 SERIES 100mm aperlex.	79KW 106HP	126KW 170HP	1390NM	1100 RPM
42mm + - + - + 194mm = W2600 SERIES 115mm approx.	90КW 120НР	144KW 192HP	1400NM	1100 RPM



- NOTE: PTO drive or implement clutch and gearbox, voiding your machine warranty.
- Measure groove to groove dis-1) tance from implement shaft to tractor shaft with implement in shortest position.

NOTE: Length will vary as implement is raised or lowered

- Remove safety guard from new 2) shaft and measure length between shaft lock buttons or clamp bolts with shaft in closed position.
- Required length of shaft is groove 3) to groove length (step 1) less a minimum of 76mm (3") to allow for disconnection from tractor and prevent end thrust damage. If shaft is shorter than this, ensure that 50% of telescopic tubes overlap.



Amount to cut off shaft; 4) Length of new shaft (step 2) Less groove to groove measurement (step 1) plus 76mm (3"). Cut this amount off both inner and outer drive tubes. Remove burrs and grease tubes.

> E.g. New shaft Less grove to groove requirement plus clearance 76mm Amount to cut off This is example only



1194mm (47") - 890mm (35") + 76mm (3") 380mm (15")

TRIMMING IMPLEMENT PTO SHAFT **TO SUIT YOUR TRACTOR**

End thrust from over length shafts (or seized telescopic tubes) can destroy your tractors internal



















CUTTING SAFETY GUARD TO REQUIRED LENGTH







"B" = "A" – 76mm (3") ("B" is 76mm (3") less than "A")









Shaft Operating Angle

Adjust tractor hydraulic control to minimise lift height. High lift and large shaft angle will destroy universal joint.

All Bare-Co PTO shafts (single universal joint) Short time running: Maximum angle 25 degrees Continuous operation: Maximum angle 17 degrees

All Bare-Co Wide Angle PTO shafts (double universal joint) Short time running (or stationary): Maximum angle 80 degrees Continuous operation: Maximum angle 25 degrees

LUBRICATION

Sliding Members

Use high temperature grease similar to HP multi-purpose chassis grease. Grease sliding members prior to assembly and after every 20 hours of use. For applications with high telescoping movement grease every 8 hours.

Bare-Co shafts from 8 series upwards are equipped with a grease nipple which can be accessed by releasing the patent guard to align access hole.

Universal Joints

Grease standard joints every 20 hours or 8 hours for severe conditions. Wide angle joints every 8 hours under wide angle conditions. Operating standard shafts at greater than 10 degrees angle or wide angle shafts at greater than 18 degrees angle dramatically reduces cross bearing life and requires more frequent lubrication.



vidual cross bearings.

Typical cross failure due to blocked internal grease port

MOST IMPORTANT!

Fully open guard covers to ensure grease flows to all cross bearings Greasing through small guard access holes is not good enough!

How to prevent wide angle shaft failures:

- 1) stationary or rotating), the centre support ball and socket will break (not covered by warranty). To tact tractor tyre prior to over angling.
- The very large centre disc lubrication cavity must be completely full before any grease transfers from 2) this cavity on initial shaft installation.
- 3) Wide angle covers should be completely removed to ensure grease flows to the centre support ball and all eight cross bearings

FAILURE PREVENTION



IMPORTANT: Grease follows the easiest path through internal ports to the four cross bearings.

Over heating and poor quality grease baked in one port will prevent grease reaching that bearing, resulting in failure of indi-

If 80 degree wide angle shafts are angled at greater than 80 degrees (Jack knifing implement with shaft avoid over angling, fit turn limiters to your implement draw bar. Correctly fitted turn limiters will con-

the cavity to the centre support ball and socket. More than half a cartridge of grease is required to fill