



REVOLUTION

HELICOPTER CORP., INC.



Mini-500

1905 W. Jesse James Rd. • Excelsior Springs, Missouri 64024
Phone (816) 637-2800 • Fax (816) 637-7936

April 24, 1996

Service information letter #040196

Subject: Belt Tracking

Applicability: All Mini-500's

The tracking of your main drive belt is critical. Some customers in the field have damaged their belts due to improper tracking. To aid in simplifying the belt track procedure, we have developed a simple modification that will allow greater adjustment capabilities. This modification should be made by the customer to all existing Mini-500's using the following procedure.

1. Remove the main drive belt idler assembly from the aircraft.
2. Remove the idler wheel #0039 from the idler arm #BA23.
3. Enlarge the idler wheel mounting holes in the idler arm #BA23 to 25/64 inches (.390).
4. Reinstall the idler wheel #0039 to the idler arm #BA23 but do not tighten the bolt.
5. Reinstall the idler assembly onto the aircraft.
6. Align the idler wheel with the drive belt both vertically and horizontally, and tighten the bolt.
7. Retention the drive belt as per the assembly manual.
8. Check the belt track both with no load and under load.
9. The belt should not be pressing against the front or the back of the bottom sprocket. Running toward one side is acceptable as long as the belt is not pressing against the sides.
10. With the belt in the proper place on the bottom sprocket, check the top sprocket. **The belt must be at least 1/8 inch back from the front (transmission side), of the top sprocket when under a load.**
11. Make small adjustments to the idler wheel alignment until the proper belt track is achieved.
12. Check for proper belt tension.

Please print your name and date, then mail or fax a copy of this letter to Revolution Helicopter before May 15, 1996.

Name: _____ Date: _____

Aircraft Serial Number: _____

If you have any questions please contact Brian Thomas at (816) 637-2800.

See diagram on back side.

