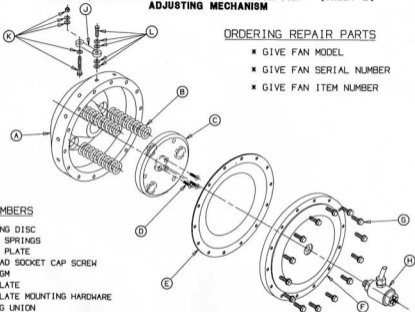


CONCEPT/COMPAX HV CONTROLLABLE PITCH FAN - (SHEET 2) ADJUSTING MECHANISM



ORDERING REPAIR PARTS

- ✱ GIVE FAN MODEL
- ✱ GIVE FAN SERIAL NUMBER
- ✱ GIVE FAN ITEM NUMBER

ITEM NUMBERS

- A) ADJUSTING DISC
- B) HELICAL SPRINGS
- C) BACK UP PLATE
- D) FLAT HEAD SOCKET CAP SCREW
- E) DIAPHRAGM
- F) COVER PLATE
- G) COVER PLATE MOUNTING HARDWARE
- H) ROTATING UNION
- J) CONNECTING LINK
- K) CONNECTING LINK MOUNTING HARDWARE
- L) HARDWARE (PITCH CONTROL MECHANISM)

NEW PHILADELPHIA FAN COMPANY

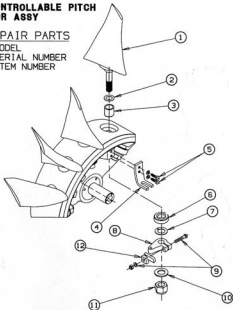
CONCEPT HV CONTROLLABLE PITCH ROTOR ASSY

ORDERING REPAIR PARTS

- ✱ GIVE FAN MODEL
- ✱ GIVE FAN SERIAL NUMBER
- ✱ GIVE FAN ITEM NUMBER

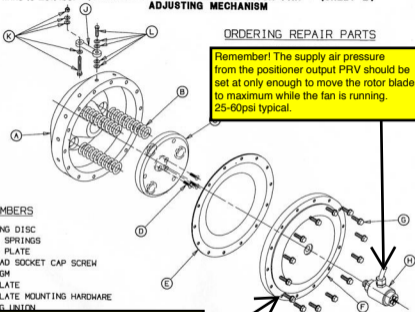
ITEM NUMBERS

- 1) C. P. BLADE
- 2) TEFLON WASHER
- 3) BUSHING
- 4) ROTATION LUG
- 5) ROTATION LUG MOUNTING HARDWARE
- 6) SPACER
- 7) THRUST WASHER
- 8) CLAMP
- 9) CLAMP MOUNTING HARDWARE
- 10) BLADE WASHER
- 11) BLADE NUT
- 12) COUNTER WEIGHT



NEW PHILADELPHIA FAN COMPANY

CONCEPT/COMPAX HV CONTROLLABLE PITCH FAN - (SHEET 2)
ADJUSTING MECHANISM



ORDERING REPAIR PARTS

Remember! The supply air pressure from the positioner output PRV should be set at only enough to move the rotor blades to maximum while the fan is running. 25-60psi typical.

ITEM NUMBERS

- A) ADJUSTING DISC
- B) HELICAL SPRINGS
- C) BACK UP PLATE
- D) FLAT HEAD SOCKET CAP SCREW
- E) DIAPHRAGM
- F) COVER PLATE
- G) COVER PLATE MOUNTING HARDWARE
- H) ROTATING UNION

Torque cover plate to 7.5ft lbs. in a cross pattern. Re-torque to 10 ft lbs. in a cross pattern. Apply main air pressure several times and recheck torque. Repeat this process until 10ft lb. torque is maintained.

PHIA FAN COMPANY

CONCEPT HV CONTROLLABLE PITCH ROTOR ASSY

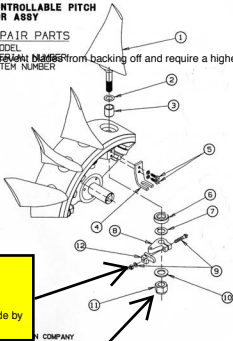
ORDERING REPAIR PARTS

- GIVE FAN MODEL
- GIVE FAN SERIAL NUMBER
- GIVE FAN ITEM NUMBER

Worn thrust washers can cause drag. This can prevent blades from backing off and require a higher than normal

ITEM NUMBERS

- 1) C. P. BLADE
- 2) TEFLON WASHER
- 3) BUSHING
- 4) ROTATION LUG
- 5) ROTATION LUG MOUNTING HARDWARE
- 6) SPACER
- 7) THRUST WASHER
- 8) CLAMP
- 9) CLAMP MOUNTING HARDWARE
- 10) BLADE WASHER
- 11) BLADE NUT
- 12) COUNTER WEIGHT



Torque blade clamps

30" Hub 15ft lbs.

26" Hub 10-13ft lbs.

17" Hub 5-8ft lbs.

always check for tightness by trying to turn blade by hand.

COMPANY

Tighten 1.25" nut to deliver a hand turn resistance of 3ft lbs. on the blade. Do not over tighten!