

IDEAL S-22

INSTRUCTIONS ON REPLACING CYLINDER

1. Remove left side and top covers (left and right determined facing discharge end of machine).
2. Remove chain between drive shaft sprocket and cylinder ring sprocket.
3. Remove bearing on intake end of conveyor.
4. Remove bearing on drive shaft on discharge end of machine.
5. Remove sprocket on trough setting shaft.
6. Place support under cylinder on intake end – 2 x 4 or similar object.
7. Remove discharge casting from end plate on discharge end of machine.
8. Remove trough setting segment from trough neck.
9. Remove discharge end plate and retarder bracket, cylinder can now be removed from machine.
10. Loosen (3) set screws on cylinder intake cone casting and remove conveyor and trough.
11. Remove intake cone and ring sprocket from old cylinder and install same on new cylinder.
12. Install conveyor and trough into new cylinder setting shaft to dimension specified on instruction sheet, tighten (3) set screws and lock nuts, cylinder is now ready to put back into machine. (Instruction sheet – Page 5, figure 3.)

NOTE:

Handle cylinder carefully.

DO NOT DROP OR BUMP!

INSTRUCTIONS FOR CHANGING CYLINDERS

SINGLE AND MODULAR LENGTH GRADERS

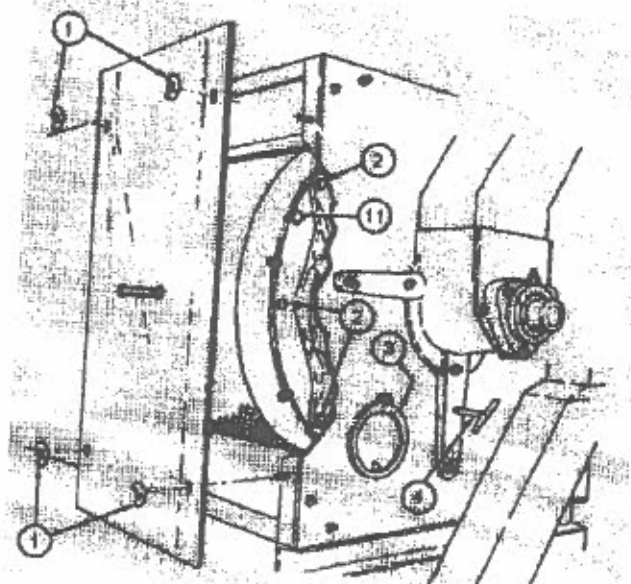
QUICK CHANGE UNITS

CYLINDER REMOVAL

IMPORTANT

Always disconnect power to the machine before attempting any service procedure to prevent accidental start-up and personal injury.

1. Hand rotate cylinder and remove eight bolts (2) that hold end plate to cylinder mounting flange of cylinder at the intake end of the machine. *Note* - Bolts may be removed through the access cover (3) if desired or unscrew four wing nuts (1) and remove rear side panel.
2. Screw support screw (4) in until hand tight against sprocket.
3. Remove discharge spouting.
4. Remove set collars (7) from the drive shaft and conveyor shaft on the discharge end of the machine.
5. Detach discharge head (9) from end plate by removing four hex head bolts.
6. Detach trough adjustment rack (10) from trough assembly by removing five screws.
7. Remove twelve hex head bolts that hold end plate (8) onto frame and lift off end plate.
8. Cylinder can now be removed from machine by sliding and lifting it out of the discharge end.

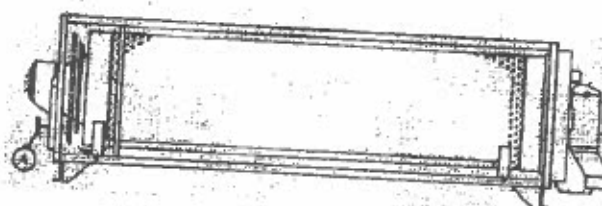
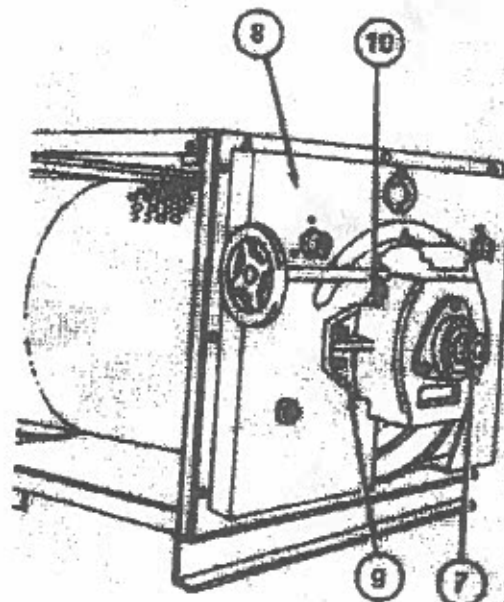


CYLINDER INSTALLATION

Installing cylinders is essentially the reverse of removal procedure listed above. However, when the cylinder is slid into the machine, the cylinder must be rotated until the two alignment holes in the cylinder mounting flange line up with alignment pins (11) which are welded to the cylinder end plate. Sight through the discharge end of the cylinder to align pins to holes.



After all parts are installed and nuts and bolts are tightened, unscrew SUPPORT SCREW (4) far enough to allow cylinder to rotate freely.



INSTRUCTIONS FOR CHANGING CYLINDERS

SINGLE AND MODULAR LENGTH GRADERS

QUICK CHANGE UNITS

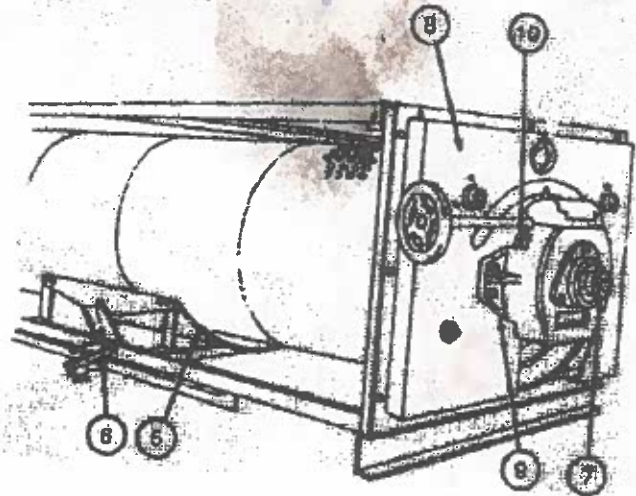
CYLINDER REMOVAL

IMPORTANT

Always disconnect power to the machine before attempting any service procedure to prevent accidental start-up and personal injury.

1. Unscrew four wing nuts (1) and remove rear side panel.
2. Hand rotate cylinder and remove eight bolts (2) that hold end plate to cylinder mounting flange of cylinder at the intake end of the machine. *Note* - Bolts may be removed through the access cover (3) if desired.
3. Screw support screw (4) in until hand tight against sprocket.
4. Raise cradle (5) into support position under cylinder by depressing and pushing inward foot pedal (6) until it is locked in place. If cradle does not support cylinder properly, adjust height of adjustment screw on pedal.
5. Remove discharge spouting (not shown).
6. Remove set collars (7) from the drive shaft and conveyor shaft on the discharge end of the machine.
7. Detach discharge head (9) from end plate by removing four hex head bolts.
8. Detach trough adjustment rack (10) from trough assembly by removing five screws.
9. Remove twelve hex head bolts that hold end plate (8) onto frame and lift off end plate.

10. Cylinder can now be removed from machine by sliding and lifting it out of the discharge end.



CYLINDER INSTALLATION

Installing cylinders is essentially the reverse of removal procedure listed above. However, when the cylinder is slid into the machine over the cradle assembly (5), the cylinder must be rotated until the two alignment holes in the cylinder mounting flange line up with alignment pins (11) which are welded to the cylinder end plate. Sight through the discharge end of the cylinder to align pins to holes.

After all parts are installed and nuts and bolts are tightened, **RELEASE CRADLE ASSEMBLY (5)** and **CHECK SUPPORT SCREW (4)** to see that it is screwed out far enough to allow cylinder to rotate freely.

