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MANUAL PREVIEW

Belle City
Operator's Manual

Threshers

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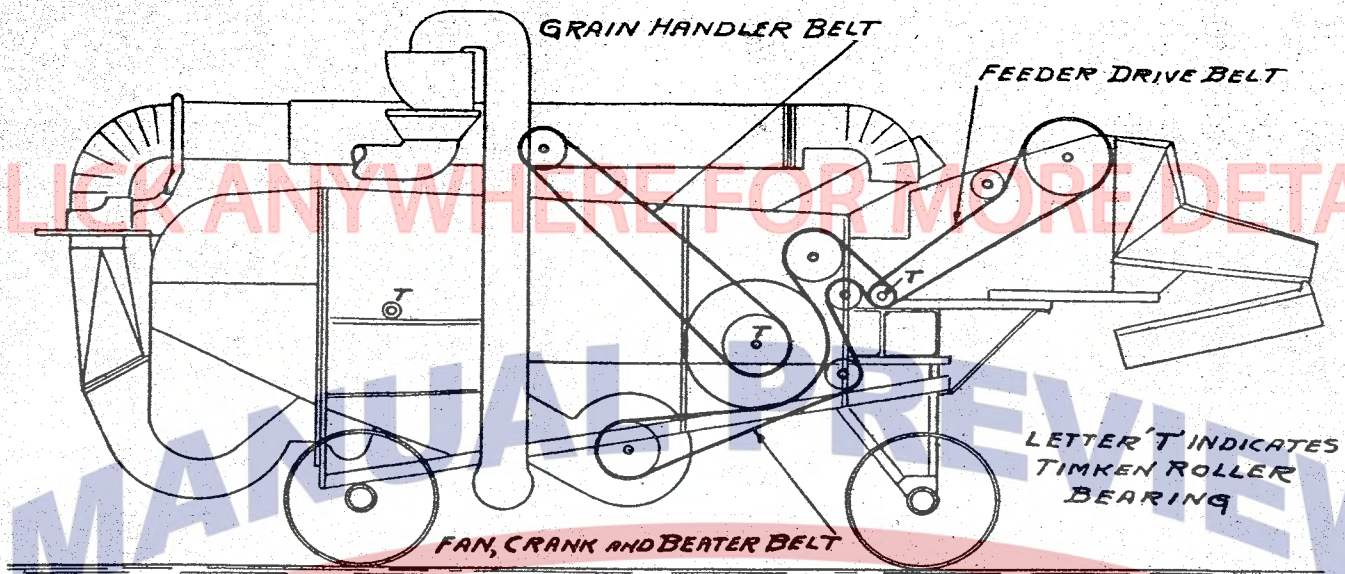
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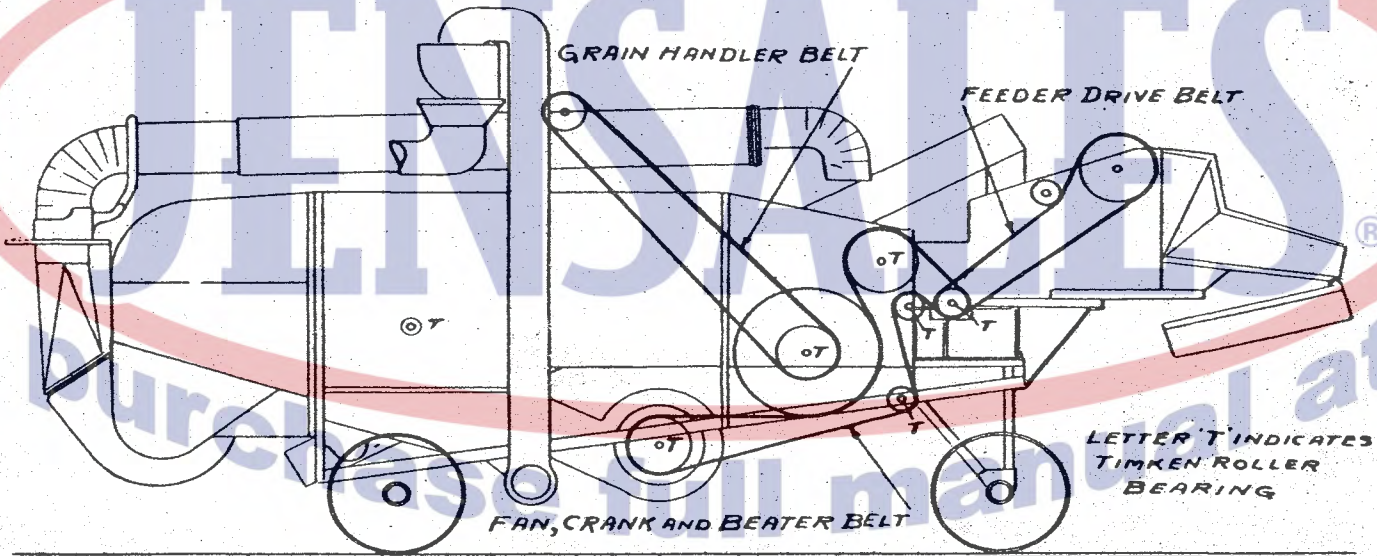
Operator's Manual

BEC-O-THRESHER

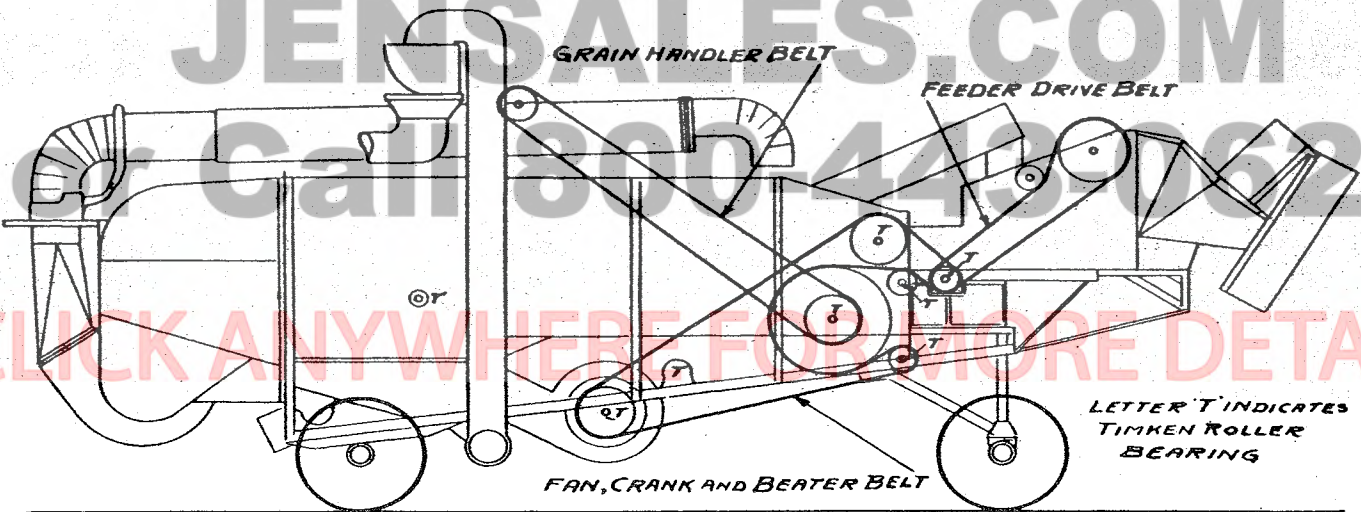
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20 x 32 Thresher, L. H. View



22 x 40 and 24 x 40 Thresher, L. H. View

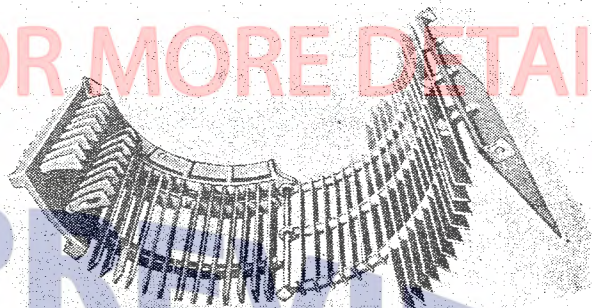


28 x 48 Thresher, L. H. View

SEPARATING

GRATES: The extremely long concave and grate surface in Belle City Threshers, together with the fact that the grate parallels the cylinder to so high a point, is responsible for an unusually large separation of grain right at the beginning of the threshing operation, leaving little grain mixed with the straw to be shaken out by the racks.

The grain separated by the cylinder, concaves and grate, does not pass onto the straw racks, but drops directly down on the grain pan or conveyor and immediately begins its travel back to the chaffer.



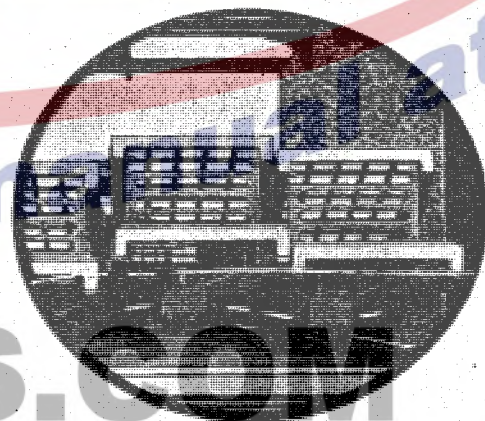
Concave and Grater

BEATER: The straw with the small amount of grain remaining in it is driven down by the beater on to the front end of the straw racks and in this operation is quickly spread the full width of the machine.

The beater operates at a speed sufficient to prevent the straw from bunching or winding on the cylinder.

STRAW RACKS: Four racks having perforated galvanized tops with corrugations to assist the travel of the straw and with risers similarly covered and which add to the length of straw travel, operate at a proper speed to move the straw in a continuous stream to the rear of the machine where it is delivered to the windstacker. Each rack has an individual circular motion, operating on two fourthrow steel cranks to which it connects by means of hard maple boxes, boiled in oil and lubricated by Alemite-Zerk grease gun.

These wood boxes are made in halves, and are attached to the pressed steel saddle support for the rack sides, by four bolts. Shims are inserted between the halves which can be removed as necessary to take up wear. However, the boxes are very durable and when worn can be replaced with little expense—better replace them than allow the racks to pound.



Pressed Steel saddle with oil soaked maple box—Note Alemite-Zerk oiler

This provides the most efficient tossing and turning agitation of the straw which positively permits all remaining grain to drop through onto the grain pan.

CHECK FLAP: A canvas check curtain is suspended from the roof of the straw chamber back of the beater to retard any grain or straw driven by the blast from the beater and to drop it down on the straw racks—no adjustment will be found necessary under all ordinary conditions.

ADJUSTABLE SHOE SIEVE: This sieve is readily adjusted for various grains and seeds by means of a rod projecting through the shoe side. For all cereal grains this sieve only is required for perfect cleaning. However, for flax, clover, timothy, etc., better results can be obtained by using a special sieve under the adjustable sieve.

SHOE SCREEN: A general purpose metal screen is furnished that will take out weed seeds, seeds smaller than the grain being threshed, also sand and other foreign matters.

When the screen is being used the screening slot in the front end of the shoe bottom must be opened to permit the screenings to drop to the ground. If the slot is not open when using the screen, the foreign matter will soon clog the screen and prevent free passage of the grain. If you do not want to separate the screenings, be sure to remove the screen—when in use see that it is cleaned often. Special screens can be supplied for clover, timothy, etc.

BLAST: The blast for cleaning the grain or seed is very important and is very effectively handled by the Belle City.

Two fan like shutters are provided on either side of the cleaning fan drum; are adjustable to gauge the volume of blast, while a wind board back of the fan controls the direction of the blast. These adjustments are on the outside and can be changed while the machine is in motion.

Use all the blast possible without blowing grain or seeds out and direct the blast so it spreads under and enters all the meshes of the sieves evenly.

TAILINGS ELEVATOR: This elevator carries the unthreshed heads and particles too heavy to be blown out by the blast back to the cylinder for second threshing. It is driven at the upper end by a crossed belt from the beater.

THRESHER ATTACHMENTS

FEEDERS: Separate printed instructions on the operation and adjustment of other than Belle City Feeders are included in the thresher packing box.

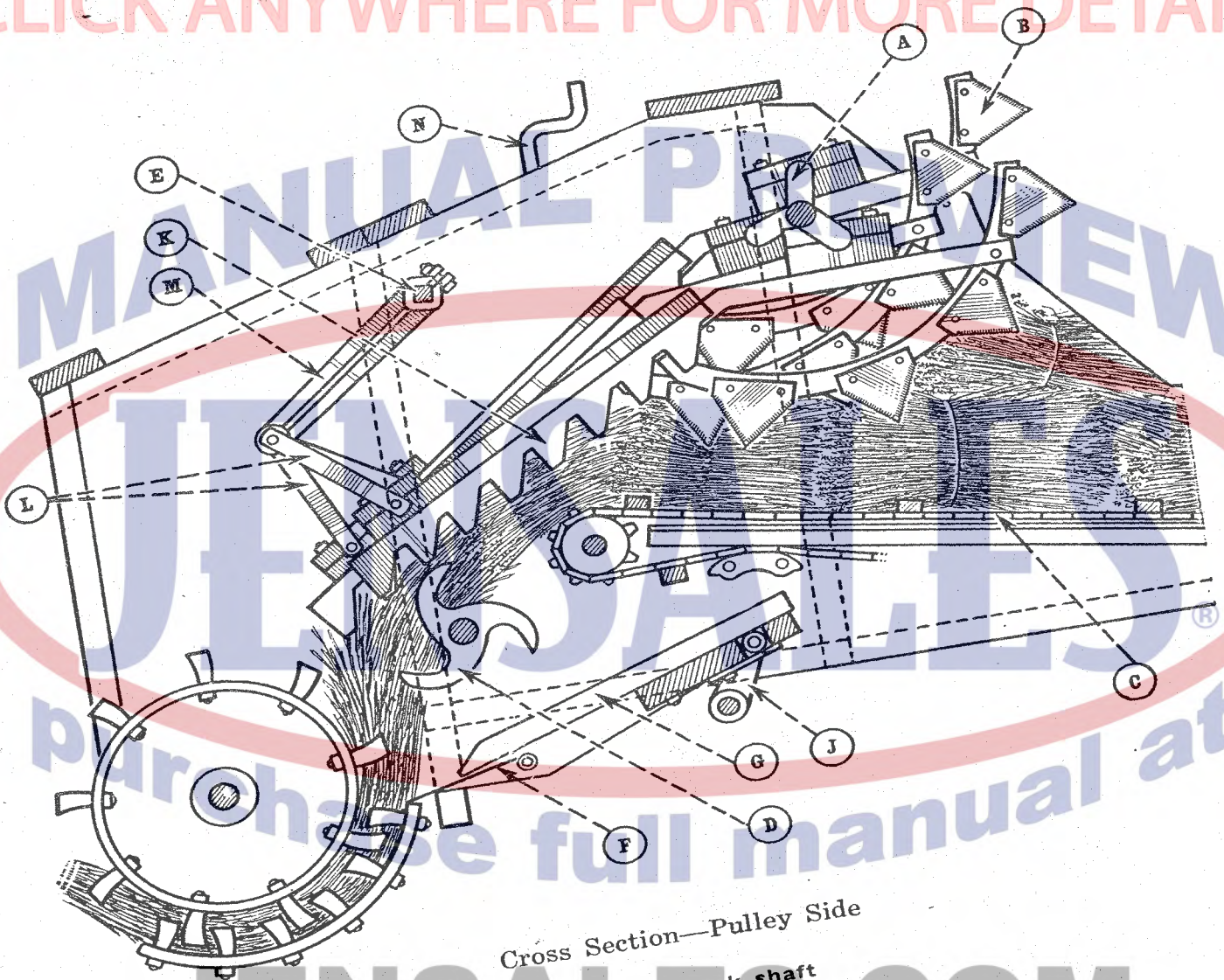
INSTRUCTIONS FOR OPERATING BELLE CITY FEEDERS

NOTE: Right and left hand sides are determined by standing in front of and facing the feeder.

Let the lower notched edge of the stationary feed pan rest on the top edge of the concave (this is important) and slip the rod passing through the turned edge into the notches in the iron strap riveted to feeder sides.

Let the lower edge of shake pan ("G") rest and slide on stationary pan ("F") and fasten the upper upturned edge to the inside arms ("J") on rocker shaft. The arms should be straight up on the rocker shaft when the shake pan is at the extreme forward point of the

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Cross Section—Pulley Side

- A. Three-way crank shaft
- B. Serrated band cutters
- C. Carrier apron
- D. Retarder
- E. Square shaft
- F. Stationary feed pan
- G. Shake pan
- J. Rocker arm on shake pan shaft
- K. Feed rakes
- L. Feed rake hangers
- M. Arm for feed rake hangers
- N. Feed rake adjusting screw

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