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Minneapolis Moline

Operator's Manual

P Series Press Drills,

20-6", 24-6", 13-7",

16-7" & 18-7"

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MM-O-PSEDRILL

Operator's Manual

S-149

ASSEMBLY, OPERATION

AND

MAINTENANCE MANUAL



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"P" SERIES PRESS DRILLS

20-6" 24-6" 13-7" 16-7" 18-7"

MINNEAPOLIS-MOLINE COMPANY

MINNEAPOLIS 1, MINNESOTA, U. S. A.

MINNEAPOLIS-MOLINE MONITOR PRESS DRILLS

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MINNEAPOLIS-MOLINE MONITOR PRESS DRILLS

ASSEMBLY

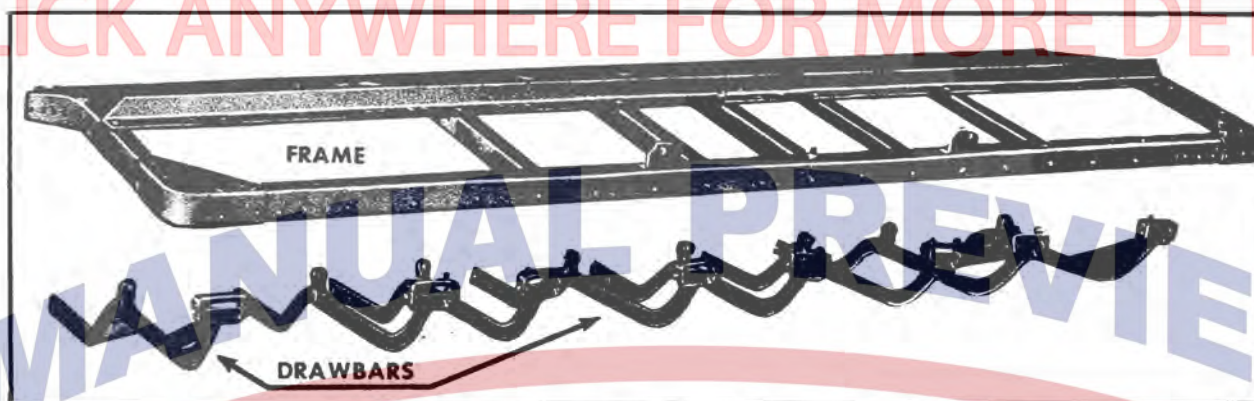


Fig. 1, Drawbars and Frame

PRELIMINARY INSTRUCTIONS

RIGHT OR LEFT SIDE OF THE DRILL IS DETERMINED BY FACING THE DIRECTION OF TRAVEL.

PRIOR TO STARTING THE ACTUAL ASSEMBLY OF THE DRILL, REMOVE THE BUNDLES FROM THE DRILL HOPPER AND CUT THE WIRES HOLDING THE VARIOUS BUNDLES TOGETHER. UNPACK THE TRIMMER CARTON CONTAINING THE CONDUCTOR TUBES, PRESSURE RODS, SPRINGS, WASHERS, ETC.

SORT ALL PARTS AS SHOWN IN FIG. 1. WITH THE ROUNDED CORNERS TOWARD THE FRONT, BLOCK UP THE GRAIN DRILL FRAME SO IT IS ABOUT TWO FEET FROM THE GROUND.

DRAWBARS

BOLT THE DRAWBAR ASSEMBLIES TO THE DRILL FRAME. EACH DRAWBAR HANGER IS BOLTED THROUGH TWO HOLES $2\frac{7}{8}$ INCHES APART ON THE BED RAIL ANGLE.

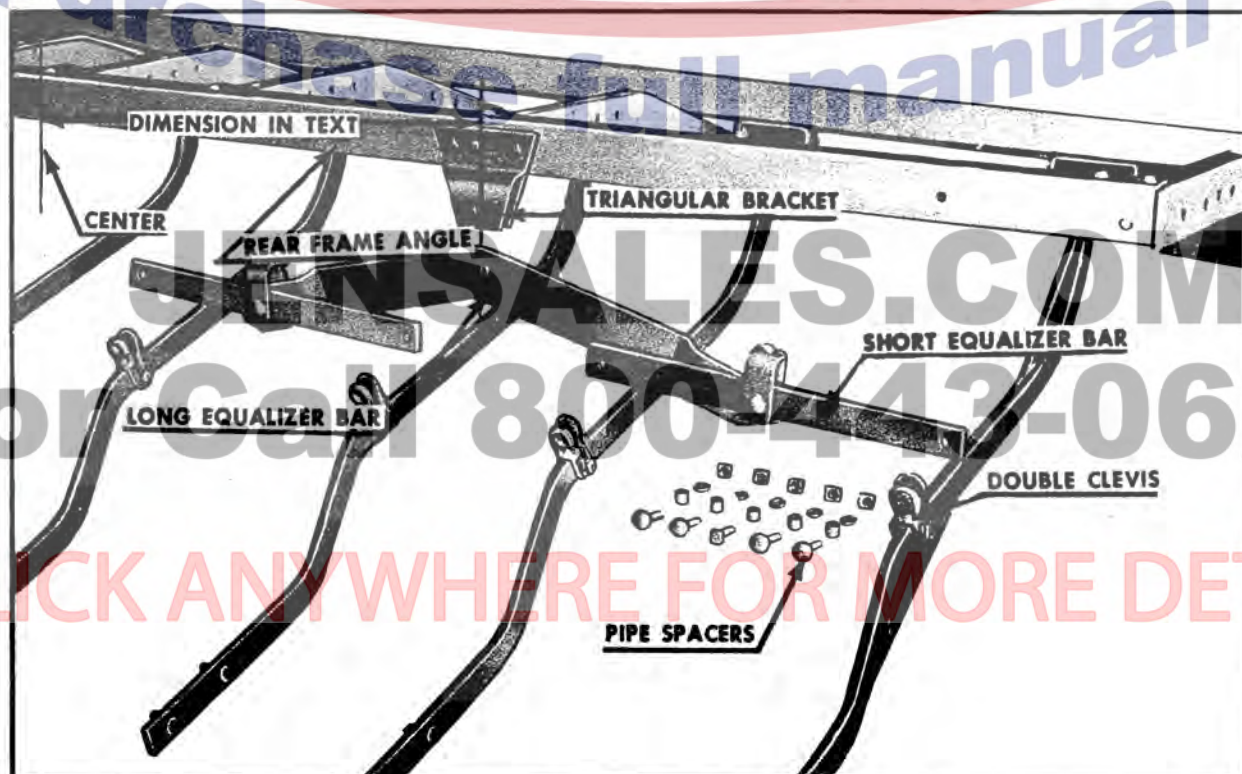


Fig. 2, Drawbar, Hanger and Frame

MINNEAPOLIS-MOLINE MONITOR PRESS DRILLS

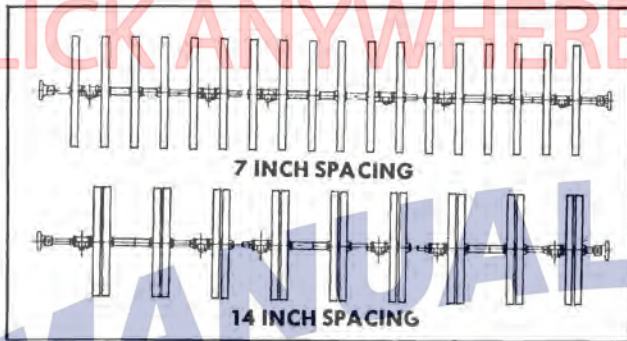


Fig. 7, Press Wheels

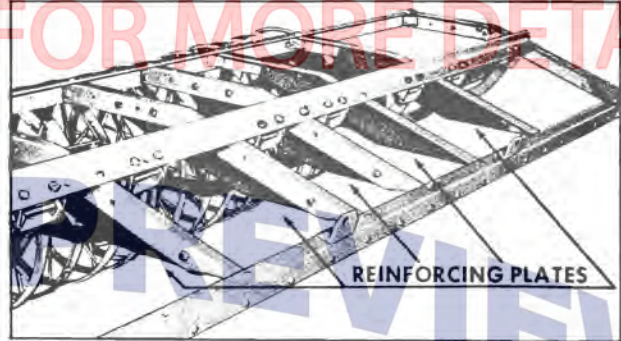


Fig. 9, Reinforcing Plates

PRESS WHEEL

ROLL THE PRESS WHEEL ASSEMBLIES INTO PLACE AT THE REAR OF THE GRAIN DRILL. MAKE CERTAIN THAT THE TWO DRIVE SPROCKETS ARE INSTALLED TOWARD THE OUTSIDE OF THE DRILL AS SHOWN IN FIG. 7. NEXT, BOLT THE ENDS OF THE DRAWBARS TO THE UNDER SIDES OF THE BEARING ASSEMBLY (FIG. 7).

NOTE: THE PRESS WHEELS FOR THE 16-7 AND 18-7 DRILL CAN BE ADJUSTED FOR EITHER 7 INCH OR 14 INCH SPACING, DEPENDING ON SEEDING NEEDS, AS SHOWN IN FIG. 7.

WHEN CHANGING PRESS WHEELS FOR 14 INCHES, MOVE DRAWBARS $1\frac{1}{2}$ INCH TO THE LEFT ON THE BED RAIL ANGLE (FIG. 10). INSTALL THEM ON THE LEFT SET OF HOLES FOR THE 14 INCH DRILL (FIG. 6).

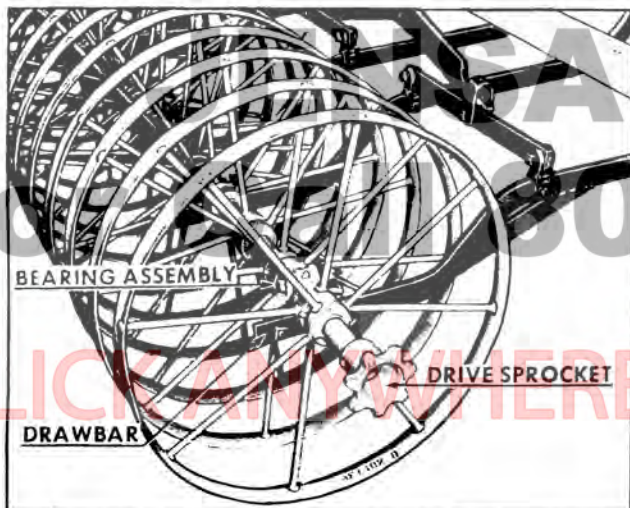


Fig. 8, Press Wheels

REINFORCING PLATES

BOLT REINFORCING PLATES TO THE INSIDE OF EACH INSIDE FRAME CROSS ANGLE (FIG. 9).

TRUCK AND YOKE HITCH

NOTE: DO NOT TIGHTEN BOLTS UNTIL HITCH HAS BEEN COMPLETELY ASSEMBLED.

BOLT THE SMALL "U" SHAPED BRACKET TO THE CENTER OF THE FRONT FRAME ANGLE.

REMOVE THE NUT FROM THE BOLT THAT HOLDS THE CENTER CROSS ANGLE TO THE BED RAIL ANGLE. PLACE A BEVELED SPACER OVER THIS BOLT AND THEN INSTALL THE STRAIGHT CENTER HITCH ANGLE OVER IT, AND BOLT TO THE BED RAIL ANGLE AND TO THE SMALL "U" SHAPED BRACKET (FIG. 10).

BOLT ONE TRIANGULAR PLATE TO THE BOTTOM OF THE STRAIGHT CENTER HITCH ANGLE WITH FLANGED EDGE OF HOLE UP.

BOLT THE TWO BENT HITCH ANGLES TO THE TRIANGULAR PLATE WITH THE TWO WELDED ANGLE PIECES TOWARD THE TOP (FIG. 10).

BOLT THE TOP TRIANGULAR PLATE IN PLACE ON THE HITCH ANGLES, FLANGED EDGE OF THE HOLE DOWN AND TIGHTEN ALL BOLTS SECURELY (FIG. 10).

MINNEAPOLIS-MOLINE MONITOR PRESS DRILLS

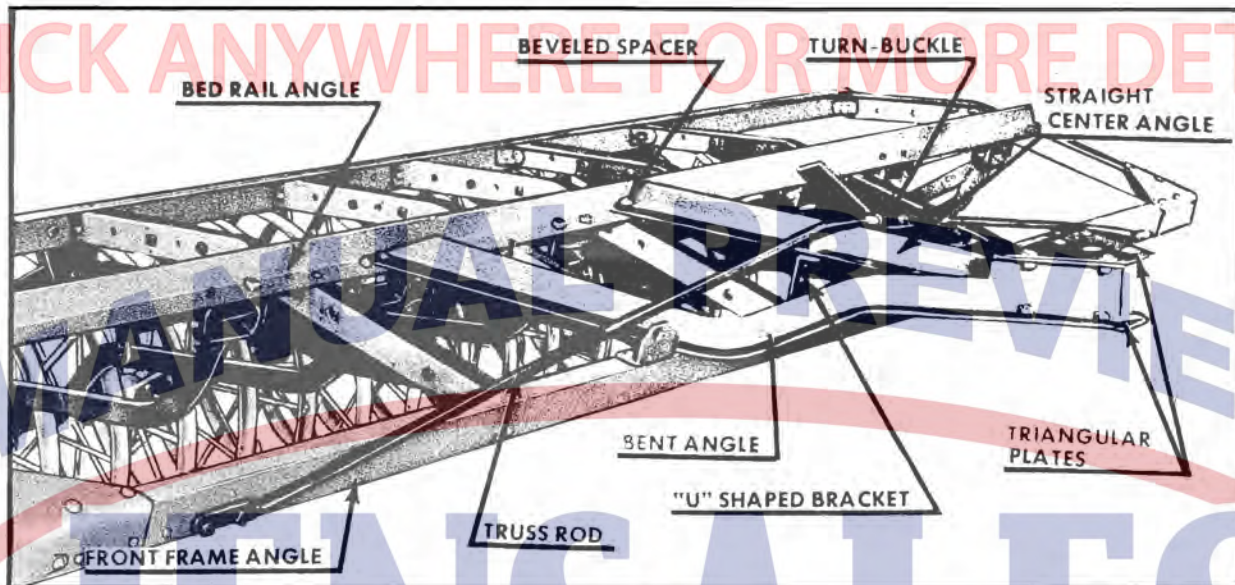


Fig. 10, Yoke Hitch

ATTACH TRUSS ROD TO FRONT FRAME ANGLE AND TIGHTEN TURN-BUCKLE.

NOTE: ALWAYS KEEP TURN-BUCKLE TIGHT.

BOLT THE DIAGONAL BRACE TO THE LOWER SIDE OF THE STRAIGHT CENTER ANGLE (FIG. 11).

REMOVE SPACING SLEEVE AND YOKE FROM THE KING PIN AND START THE KING PIN THROUGH THE HOLE IN DIAGONAL BRACE FROM THE BOTTOM.

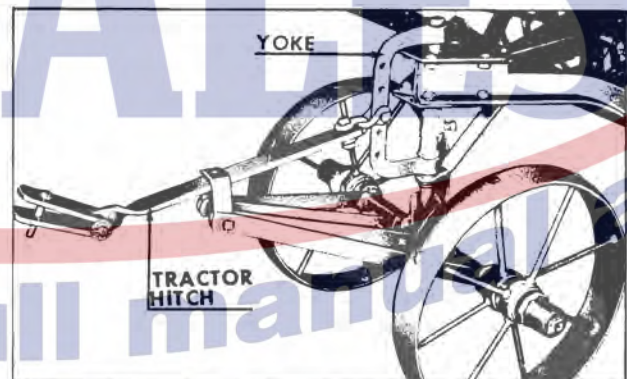


Fig. 12, Tractor Hitch

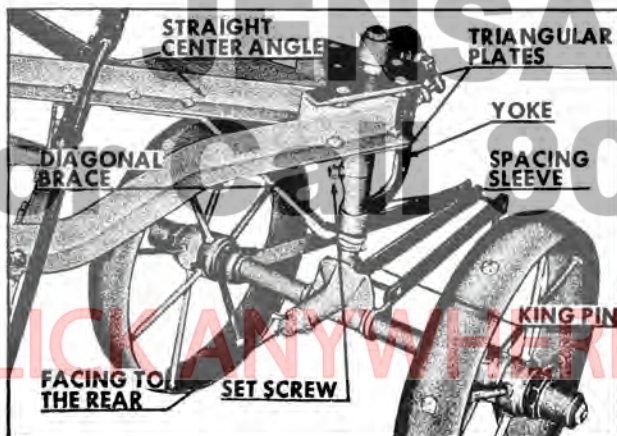


Fig. 11, Yoke Hitch

PUSH THE KING PIN THROUGH THE HOLE IN THE LOWER YOKE, THROUGH SPACING SLEEVE, THROUGH THE TRIANGULAR SHAPE PLATES, AND THROUGH THE HOLE ON THE TOP YOKE. TIGHTEN THE SET SCREW IN THE SPACING SLEEVE AND MAKE CERTAIN THAT THE COTTER KEY END OF KING PIN FACES TO THE REAR (FIG. 11).

ATTACH TRACTOR HITCH TO THE YOKE AT LEVEL POSITION FOR TRACTOR DRAWBAR (FIG. 12).

SLIDE AXLE YOKE OVER LOWER END OF KING PIN AND SECURE WITH COTTER PIN (FIG. 11).

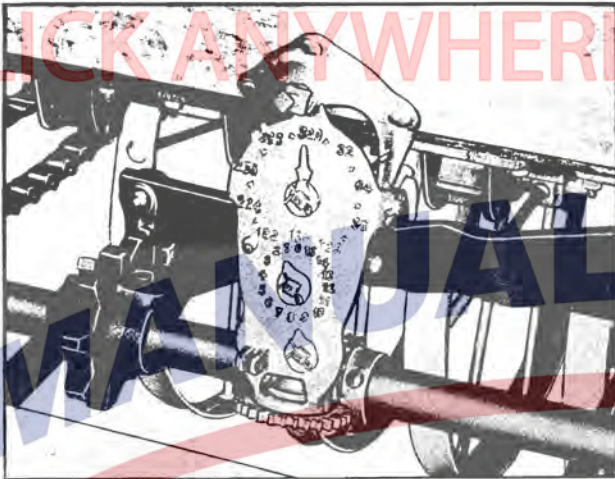


Fig. 19, Land Measure

LIFTING ROLL

ATTACH THE LIFTING ROLLS TO THE FRAME WITH THE LIFTING ARMS POINTING FORWARD USING BRACKETS AT THE CENTER AND THE END. THE BRACKETS MUST BE ATTACHED TO THE FRAME WITH THE SLOPING SIDE TO THE REAR AND BUSHINGS INSERTED FROM THE INSIDE AS SHOWN IN FIG. 21.

THROWOUT STRAPS

ATTACH GEAR THROWOUT STRAPS AT THE OUTER END OF EACH LIFTING ROLL. SECURE STRAPS BY MEANS OF COTTER KEYS AND

WASHERS AT OUTER ENDS OF THE STRAPS (FIG. 21).

ATTACH THE SHORT THROWOUT STRAP TO THE LAND MEASURE AND THE LIFTING ROLL SHAFT, USING COTTER KEY AND WASHER AT UPPER END (FIG. 22).

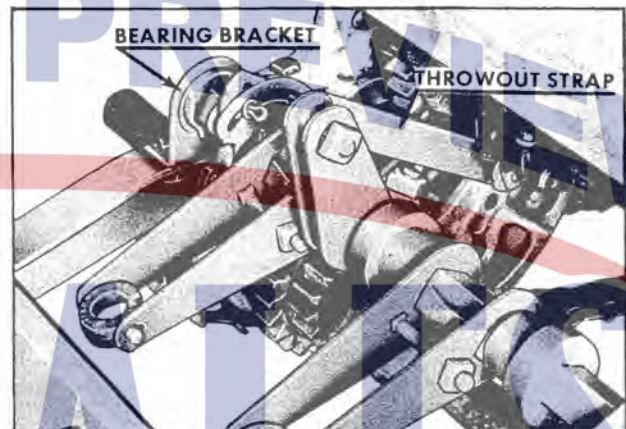


Fig. 21, Outer Bracket Lifting Roll

THE WORM WHEEL WHICH DRIVES THE LAND MEASURE SHOULD HAVE BEEN CORRECTLY ALIGNED AS PER PARAGRAPH 8 ON PAGE 8. BUT THE CLEARANCE BETWEEN THE WORM WHEEL AND THE GEAR REMAINS TO BE ADJUSTED. THERE SHOULD BE A SLIGHT CLEARANCE BETWEEN THE TWO AND THIS IS OBTAINED BY ADJUSTMENT OF THE SET SCREW SHOWN IN FIG. 22.

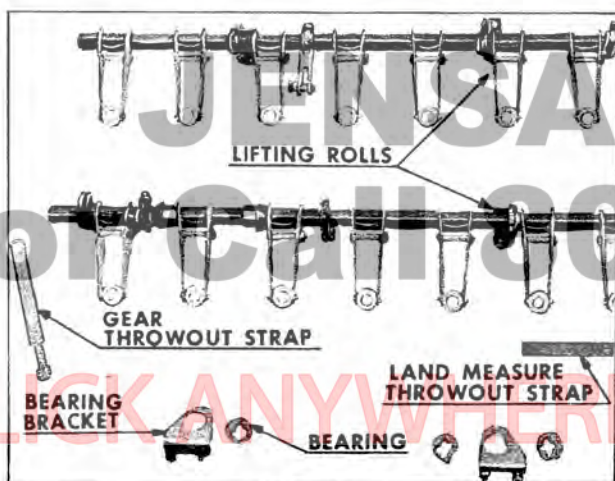


Fig. 20, Lifting Roll and Throwout Straps



Fig. 22, Land Measure Throwout Straps