



INSTRUCTION MANUAL LIGHTFOOT MODEL 6048/3024

WARNING: WHILE THE MODEL 6048/3024 IS IN OPERATION MAKE SURE ALL GUARDS ARE IN PLACE AND PROPERLY FASTENED. DO NOT WEAR LOOSE CLOTHING NEAR ANY MOVING PARTS. KEEP HANDS AND FINGERS AWAY FROM ANY MOVING PART WHILE IN OPERATION. DISSCONNECT FROM POWER SOURCE BEFORE ANY SERVICE WORK IS PERFORMED. KEEP CHILDREN AND ANIMALS AWAY FROM MACHINE WHILE IN OPERATION.

FAILURE TO DO SO COULD RESULT IN SERIOUS BODILY HARM!

DESCRIPTION:

THE MODEL 6048 IS A TWO DECK, FOUR SCREEN SEED CLEANER WHICH IS DESIGNED FOR CLOSE SEPARATION OF SEEDS/CHAFF/DEBRIS. THERE ARE TWO OPTIONS TO THE MODEL 6048, THE MODEL 6048 IS EQUIPPED WITH BOTTOM AIR, AND THE MODEL 6048TBA IS EQUIPPED WITH TOP AIR ASPIRATION AND BOTTOM AIR. OPERATED WITH A 1-1/2 HP SINGLE PHASE 50/60HZ MOTOR.

THE MODEL 3024 IS A ONE DECK TWO SCREEN CLEANER OPERATED BY A 1 HP SINGLE PHASE 50/60HZ MOTOR.

SETUP:

THE MODEL 6048 OR 3024 COMES FULLY ASSEMBLED READY TO OPERATE. SURE MACHINE IS LEVEL WHILE IN OPERATION AT ALL TIMES. FAILURE TO DO SO WOULD MAKE A SIDEWAYS MOVEMENT ALSO SHIFTING YOUR PRODUCT TO ONE SIDE OF THE MACHINE AND NOT UTILIZING THE WHOLE SCREEN AREA. ALSO COULD CAUSE EXCESSIVE VIBRATION OR JUMPING. THE MODEL 6048/3024 COMES WITH A 18 INCH MACHINE STAND. THIS IS USED TO GIVE CLEARANCE FOR A TAKEAWAY SYSTEM. THIS IS THE ONLY PART YOU HAVE TO ASSEMBLE IF NEEDED. TAKE CARE IN LIFTING THE MACHINE USING THE PROPER EQUIPMENT AND SAFE GUARDS WHILE BOLTING THE MACHINE STAND TO THE BOTTOM OF THE CLEANER. BOTTOMS OF THE CLEANERS AND THE MACHINE STAND ARE PRE-PUNCHED TO LINE UP. ALWAYS USE A HIGH TENSILE BOLT NUT AND WASHER WHEN FASTENING.

PARTS OF THE CLEANER:

HOPPER INLET: THE HOPPER WILL HOLD APPROXIMATELY 3 CU. FT. OF MATERIAL. THE HOPPER INSIDE CONTAINS THE ROLL FEED. THE ROLL FEED WILL EITHER BE THE ANTI-CLOG ROLL FEED OR THE PEG STYLE ROLL FEED. FOR MOST ALL USES THE ANTI-CLOG ROLL FEED WILL BE USED. **NEVER PUT YOUR HAND OR FINGERS IN THE HOPPER WHILE MACHINE IS IN OPERATION OR WHILE CONNECTED TO CURRENT.** THE HOPPER FLOW CONTROL IS LOCATED ON THE REAR OF THE HOPPER AND CAN BE ADJUSTED BY THE THUMB SCREW. LOOSEN THUMB SCREW AND ADJUST YOUR FLOW RATE, THEN TIGHTEN THUMB SCREW. FROM HERE YOUR PRODUCT FLOWS EITHER THROUGH THE AIR ASPIRATOR (MODEL 6048TBA) ON THE MODEL 6048 TBA THE MATERIAL WILL FLOW THROUGH THE AIR CHAMBER AND THE LIGHT DEBRIS WILL BE VACCUMED OFF AND DISCHARGED BEFORE MOVING ONTO THE 1ST OF 4 SCREENS. ON THE MODEL 6048 YOUR MATERIAL WILL FLOW DIRECTLY ONTO THE TOP SCALPER SCREEN.

TOP AIR ASPIRATOR (MODEL 6048TBA ONLY):

THE MODEL 6048TBA COMES WITH A TOP AIR ASPIRATOR WHICH PRECLEANS THE LIGHT CHAFF FROM THE PRODUCT BEFORE THE SCREENING PROCESS. THE TOP AIR IS ADJUSTED BY OPENING THE DAMPER JUST ENOUGH TO VACCUM OFF DUST AND SMALL PARTICLES WITHOUT DISTURBING ANY SEED. REMEMBER YOU HAVE THE FINAL AIR CHAMBER TO GO THROUGH TO SEPARATE OUT THE BALANCE THAT IS LEFT.

TOP SHOE (DECK):

THE TOP SHOE OR DECK CONTAINS TWO SCREENS, ONE TOP SCALPER SCREEN AND A BOTTOM FINES SCREEN. THE TOP SCREEN WILL SCALP OFF ANY LARGE FOREIGN DEBRIS AWAY FROM YOUR PRODUCT AND GO INTO THE SIDE DISCHARGE CHUTE. YOUR SCAPLED PRODUCT WILL GO THROUGH THE SCALPER SCREEN AND ONTO A FINES SCREEN WHICH WILL SIFT OUT ANY SMALLER DEBRIS, WEED SEED AND MATERIAL AWAY FROM THE PRODUCT YOU ARE CLEANING. IT IS ALWAYS IMPORTANT TO USE THE PROPER SIZE SCREENS FOR THE PRODUCT IN WHICH YOU ARE CLEANING. ENCLOSED THERE IS A SEED SCREEN CHART SHOWING SUGGESTED SIZES TO CLEAN COMMODITIES. THE DECKS OR SHOE HAVE AN ADJUSTMENT HANGER. ALWAYS MAKE SURE DECKS ARE LEVEL IN OPERATION. THE ADJUSTMENT WILL ADJUST THE TILT OF THE FLOW TO EITHER LENGTHEN THE TIME ON THE SCREEN (FLATTEN) OR TILT UP TO SHORTEN THE LENGTH OF TIME ON THE SCREEN. ALWAYS MAKE SURE THAT SCREEN DECKS ARE LEVEL BEFORE OPERATION TO MAKE SURE THERE IS NO SIDEWAYS MOTION TO THE DECKS. A LEVEL WOULD WORK BEST FOR THIS.

BOTTOM SHOE (DECK): (REFER TO THIS WHEN YOU OWN A MODEL 3024)

THE BOTTOM SHOE DECK CONTAINS TWO SCREENS ALSO. A SCALPER SCREEN, WHICH IS SIZED ONE SIZE SMALLER THAN THE TOP DECK SCALPER SCREEN. THE PROCESS IS REPEATED FURTHER SIZING YOUR PRODUCT. THE SAME DESIGN FOR ADJUSTMENTS ARE USED ON THE SECOND DECK. AGAIN, MAKE SURE THE SCREEN DECK IS LEVEL.

BOTTOM AIR CHAMBER:

THE SCREENED PRODUCT THEN GOES INTO THE BOTTOM AIR CHAMBER IN WHICH THE PRODUCT WILL GO THROUGH A STREAM OF AIR TO BLOW OUT ANY LIGHTER FOREIGN MATERIAL FROM THE PRODUCT. ONCE AGAIN THIS AIR SYSTEM IS ADJUSTABLE THROUGH A DAMPER CONTROL ON THE FRONT BY THE AIR RELEASE DISCHARGE. THIS IS TO BE CHECKED TO MAKE SURE JUST ENOUGH AIR IS USED TO SEPARATE THE LIGHT FOREIGN MATERIAL FROM THE GOOD PRODUCT BUT NOT ENOUGH TO BLOW TOO MUCH GOOD PRODUCT AWAY FROM THE PRODUCT. IT IS TYPICAL TO LOSE A SMALL AMOUNT OF GOOD PRODUCT MATERIAL IN THE PROCESS. REMEMBER, IF YOU DON'T LOSE SOME GOOD PRODUCT, THERE WILL BE FOREIGN MATERIAL STAYING WITH YOUR PRODUCT. AIR IS ADJUSTED BY CONTROLLING THE AIR DAMPER AND LOCKING IT IN POSITION.

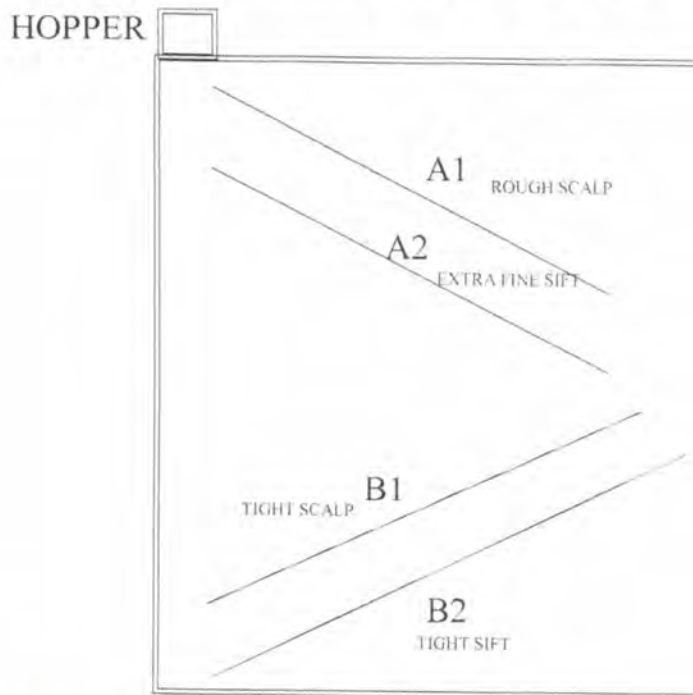
CLEANED PRODUCT DISCHARGE:

THE CLEANED PRODUCT DISCHARGE IS LOCATED TO THE FRONT BEHIND THE HEAVY AIR SEPARATION DISCHARGE. STANDING BEHIND THE MACHINE THE ADAPTER WOULD BE SLANTED TO THE LEFT OF THE MACHINE. DEPENDANT ON HOW AND WHERE YOU MOUNT YOUR MACHINE, THIS IS WHERE THE CLEANED PRODUCT COMES OUT TO BE AUGERED, ELEVATED OR BAGGED. ALL OUTLETS ARE FLANGES AND HOLED FOR ADAPTERS WHEN AND IF NEEDED. THE ALTERNATIVE WOULD BE TO RAISE THE MACHINE IN THE AIR AND PRODUCT CAN BE BAGGED OR CONVEYED FROM THAT POINT.

THE MAIN THING IS IS TO KEEP THE MACHINE LEVEL AT ALL TIMES SO THAT THERE IS NO SIDEWAYS MOTION TO THE CLEANER. DO NOT TRY AND CLEAN TOO FAST FOR THE OPERATION YOU ARE DOING. REMEMBER THAT IF YOU DO NOT LOSE SOME GOOD PRODUCT WITH YOUR DISCHARGE YOU ARE LEAVING DEBRIS IN WITH YOUR CLEANED PRODUCT. USE THE RECOMMENDED SCREEN SIZES FOR EACH COMMODITY THAT IS LISTED. (THIS LIST IS ON A SEPARATE SHEET). ALSO THE SCREEN LIST IS A STARTING POINT NOT THE GOSPEL, GROWING CONDITIONS FOR ANY PARTICULAR YEAR CAN VARY AND SO WILL YOUR SCREEN SIZE FOR CLEANING. THE SIZE CAN VAY UP TO 3 SIZES IN ANY PARTICULAR YEAR.

LIGHTFOOT # 6048 SUGGESTED SCREEN SIZES (4 SCREEN)

LIGHTFOOT # 3024 USE COLUMN B1 AND B2 (2 SCREEN)



COMMODITY	A1	A2	B1	B2
SPRING WHEAT	16 RD	5 SLOT	13 RD	5 1/2 SLOT
BARLEY / DURUM	18 RD	5 1/2 SLOT	16 RD	6 SLOT
OATS	18 - 20 RD	4 1/2 - 5 SLOT	9 - 10 SLOT	5 SLOT
ESTON LENTILS	16 RD	8 RD	15 RD	9 - 10 RD
LAIRD LENTILS	22 RD	12 RD	18 - 20 RD	12 - 13 RD
FLAX	5 SLOT	4 1/2 RD	4 1/2 SLOT	5 1/2 RD
CANARY SEED	5 1/2 SLOT	4 1/2 RD	5 SLOT	4 1/2 RD
PEAS	24 RD	10 - 11 SLOT	22 RD	11 - 12 SLOT
CHICK PEAS	28 - 32 RD	12 SLOT	26 - 28 RD	14 - 16 SLOT
PINTO BEANS	22 RD	9 SLOT	20 RD	10 SLOT
CANOLA	7 - 8 RD	3 SLOT	6 1/2 - 7 RD	3 1/2 SLOT
MUSTARD	8 - 9 RD	3 SLOT	7 - 8 RD	3 1/2 - 4 SLOT

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