

SUPERSHEAR DE-CANNER MANUAL

SUPERSHEAR DE-CANNER

OPERATION OF THE SUPER DE-CANNER IS A SIMPLE PROCESS OF SUPPLYING PRESSURE VIA A 3000 PSI PUMP DRIVEN BY A 10 HORSE POWER MOTOR TO THE TOP OF THE PISTON IN THE CYLINDER WITH A CON-TROL VALVE TO FORCE THE BLADE THROUGH THE CONVERTER. TO RETURN THE CYLINDER TO THE TOP OF IT'S TRAVEL THE REVERSE IS MAINTAINED THROUGH THE SAME HYDRAULIC CONTROL VALVE. THE CONTROL VALVE IS EQUIPPED WITH A RELIEF PORT CONTROLLED WITH A BALL AND SPRING WHICH IS ADJUSTED AT THE FACTORY TO MAINTAIN THE NEEDED PRESSURE. FINE ADJUSTMENTS CAN BE MADE BY REMOVING THE "CAP" AND ADJUSTING THE HEX HEAD SCREW DOWN FOR MORE PRESSURE AND UP FOR LESS. IF THE ELECTRIC MOTOR STALLS WHEN THE CYLINDER IS FULL EXTENDED THE PRES-SURE IS TOO HIGH.

THE 10 HORSE POWER MOTOR IS THREE PHASE AND CAN BE WIRED 208-230/460 DEPENDING ON THE AVAILABLE SOURCE POWER. A WIRING DIAGRAM AND SPEC SHEET FOLLOWS. IF DURING INSTALL YOU WISH TO CHANGE FROM ONE VOLTAGE TO ANOTHER, PLEASE FOLLOW THE DIAGRAM.

THE PUMP IS DESIGNED TO SPIN IN ONE DIRECTION FOR PROPER OPERATION. WHEN LOOKING AT THE ...

REAR OF THE MOTOR THROUGH THE VENT, THE RO-TATION WILL BE COUNTER CLOCKWISE. IF THE DI-RECTION IS CLOCKWISE THE DE-CANNER WILL NOT WORK PROPERLY. TO AVOID DAMAGE TO THE PUMP, CHECK THIS AT FIRST START UP. DAMAGE TO THE PUMP FROM SPINNING IN THE WRONG DIRECTION IS NOT COVERED UNDER THE WARRANTY! NO MAINTE-NANCE IS REQUIRED ON THE PUMP.

THE BLADE IS MOUNTED TO THE BLADE BAR WHICH IS WELDED TO THE CYLINDER WITH GRADE 8 5/16-16 BOLTS. WE'VE MADE EVER EFFORT TO PROTECT THE SURFACE OF THE BAR AND BOLTS WITH AN A-2 TOOL STEEL PLATE. THIS TOOL STEEL BAR IS REPLACEA-BLE AND SHOULD BE A CONSIDERATION WHEN CHANGING THE BLADE IF IT APPEARS TO BE WORN.

THE BLADE IS HARDENED TO ROCKWELL 40-45. IT CAN BE REMOVED AND SHARPENED WITH A GRIND-ER AND WE RECOMMEND THIS BE DONE WHEN THE BLADE EDGE BECOMES DULL. TO REMOVE THE BLADE, REMOVE THE FRONT BLADE GUILDS WHICH ARE SECURED WITH 4 SOCKET HEAD SCREWS. RE-MOVE THE BLADE BOLTS AND NUTS AND SLIDE THE BLADE FROM THE BLADE BAR. REPLACE THE BLADE AFTER SHARPENING IN THE REVERSE ORDER MAK-ING SURE NOT TO CROSS THREAD THE BLADE GUILD BOLTS. BECAUSE THE BLADE AND SLOT ARE MA-CHINED TO CLOSE TOLERANCE THE BLADE WILL BE TIGHT. THIS IS NORMAL. ALTHOUGH IT MIGHT BE UNINTENTIONAL ALLOWING THE CONVERTER OR ANY EXHAUST PIPE PIECES TO CONTACT THE SURFACE OF THE CYLINDER SHAFT IS HIGHLY DISCOURAGED. DENTS AND DISFIGURING THE SHAFT WILL CAUSE THE LOWER SEAL TO LEAK DURING OPERATION. ALTHOUGH A SMALL LEAK WILL MESSY AND NOT REDUCE THE CUTTING ABIL-ITY OF THE SHEAR, USUALLY A SMALL LEAK BE-COMES A BIG LEAK OVER TIME. WE STOCK THE SHAFT, RETAINING AND SEALS TO REBUILD THE CYL-INDER IF THIS HAPPENS.

SAFETY

OPERATION OF THE SUPERSHEAR DECANNER IS DANGEROUS!

THE SHEAR IS DESIGN FOR ONE (1) OPERATOR TO IN-SERT, CUT AND DISCARD THE EMPTY CAN. WE'VE DE-SIGNED THE SHEAR SO BOTH HANDS ARE BUSY EI-THER HOLDING THE CONVERTER OR OPERATING THE VALVE.

- NEVER INVOLVE TWO (2) PEOPLE LOADING, CUT-TING OR REMOVING THE CONVERTER FROM THE SHEAR
- NEVER PUT YOUR HANDS INSIDE THE CUTTING AR-EA WHILE THE BLAND IS MOVING
- NEVER OPERATE WHILE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL
- NEVER LEAVE THE SHEAR RUNNING WHEN UNAT-TENDED
- NEVER OPERATE THE SHEAR IF IT IS LEAKING HY-DRUALIC FLUID
- ALWAYS WEAR SAFETY GLASSES, EAR PROTEC-TION AND PROTECTIVE CLOTHING
- IT IS HIGHLY RECOMMENDED YOU WEAR A DUST MASK
- NEVER WEAR LOOSE FITTING SLEEVES
- ALWAYS WEAR GLOVES, THE EDGES GET SHARP
- REMOVE ANYTHING ON THE FLOOR THAT IS CON-SIDERED A TRIP HAZARD
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MAINTENANCE

THERE ARE ONLY A FEW MAINTENANCE CONCERNS FOR THE SUPERSHEAR DE-CANNER.

OIL CHANGE:

HYDRAULIC FLUID CAN BECOME CONTAMINAT-ED THROUGH TIME AND TEMPERATURE CHANGE. DURING OPERATION THE FLUID WILL BECOME HOT. WHEN THE OUTSIDE TEMPERATURE DROPS CONDEN-SATION FORMS ON THE TOP OF THE HYDRAULIC TAKE AND DROPS INTO THE FLUID. WHEN A SIGNIFI-CANT AMOUNT OF WATER CONTAMINATES THE FLU-ID IT WILL TURN MILKY. WHEN THIS OCCURS A FLU-ID CHANGE IS WARRANTED.

DRAIN THE FLUID FROM THE BALL VALVE LOCATED ON THE UNDERSIDE OF THE TANK. CHANGE THE FIL-TER LOCATED ON THE RETURN HOSE AND REFILL THE TANK WITH FRESH FLUID. WE RECOMMEND AW32 OR AN EQUIVALENT. CHANGING THE FLUID AT LEAST ONCE A YEAR IS ADVISABLE.

OIL LEAKS:

REPLACE HOSES THAT SHOW ANY LEAKS, A RUP-TURED HYDRAULIC HOSE AT 3000 PSI IS DANGEROUS. REPLACE WITH A DOUBLE BRAIDED HOSE RATED AT 4000 PSI AND HIGHER. ALSO LEAKS OCCURRING AROUND FITTINGS SHOULD BE REPAIRED. AS MEN-TIONED BEFORE LEAKS AROUND THE CYLINDER SHAFT NEED TO MONITORED.

MAINTENANCE

BLADE:

NEVER USE A DULL BLADE!

IF THE TIP BREAKS OFF, REPLACE THE BLADE, ADDITIONAL WEAR AND TEAR TO THE BLADE GUILDS OCCURS WHEN THE BLADE IS FORCED THROUGH THE CONVERTER WITH A DULL BLADE OR BLADE WITH A MISSING TIP.

GUIDES

SOME WEAR OF THE GUIDES IS NORMAL. RE-PLACE THE GUILDS IF THE PLAY BETWEEN THE GUIDES AND BLADE BECOME GREATER THAN 1/8 INCH.

HYDRAULIC CONTROL VALVE

GRIT AND DIRT CAN CONTAMINATED THE TOP SEAL WHERE THE CONTROL VALVE SLIDES INTO THE VALVE HOUSING. AN EVERYDAY CLEANING OF THIS AREA WILL HELP AVOID LEAKS.

ELECTRICAL

WE INSTALL A 60 AMP RATED SWITCH IN THE SWITCH BOX. IF FAILURE OF THE SWITCH OCCURS, NOTHING LESS THAN A 60 AMP SWITCH IS REQUIRED DUE TO AMPERAGE DRAW WHEN THE MACHINE IS AT FULL TORQUE. IF ANY WIRE HAS BEEN EXPOSED RE-PLACE WITH 12/4 SEOOW CORD. Company Office Supershear INC 7235 East Hampton #107 Mesa AZ 85209

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