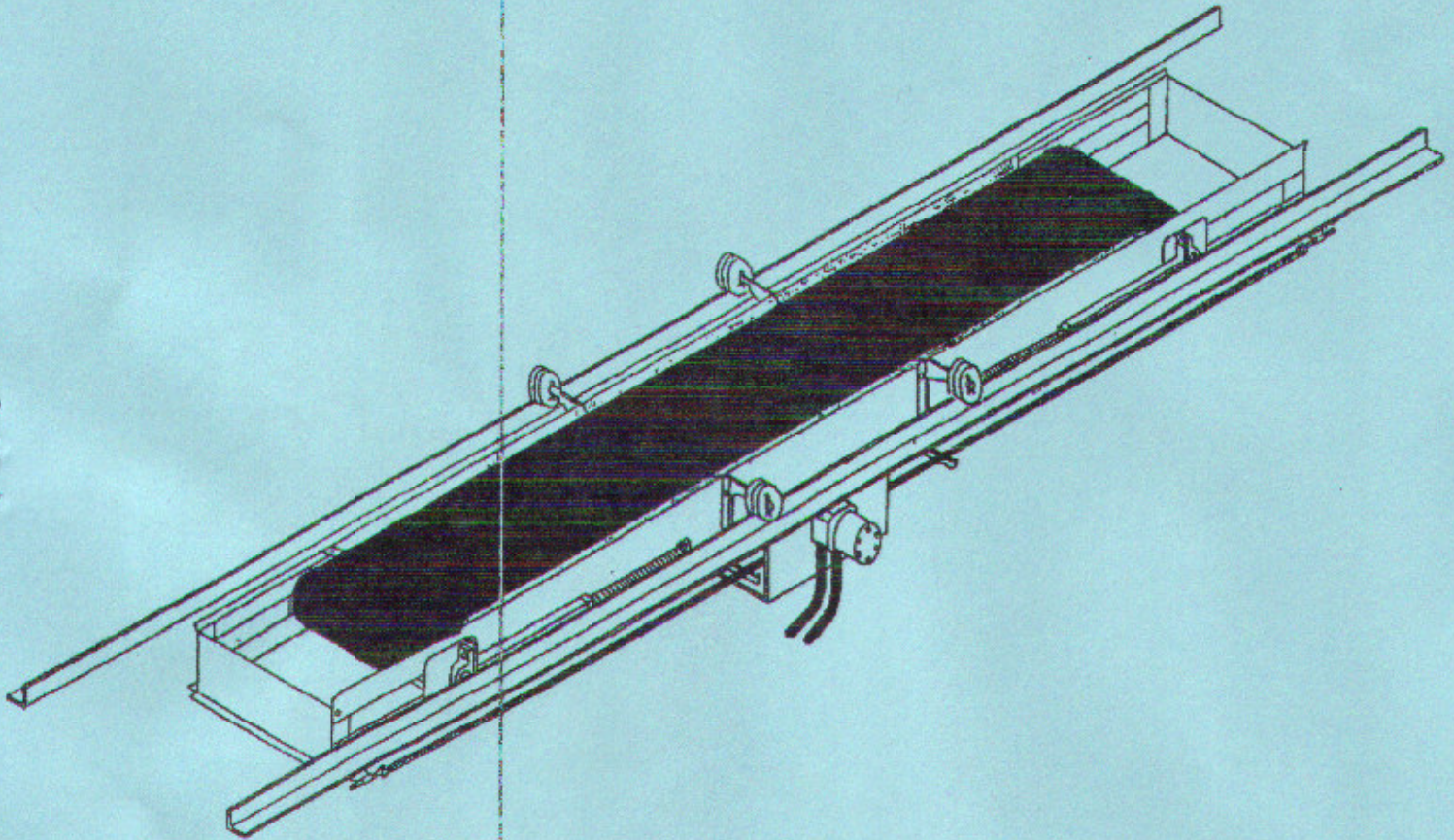


ZABEL EQUIPMENT, INC.
16" CENTERFILL FEEDER
MODEL ZTF1630

INSTALLATION, PARTS AND OPERATION MANUAL



**MANUFACTURES OF BELT CONVEYOR, FEEDERS, AND
MANURE PUMPS**

PHONE (608) 874-4105
FAX (608) 874-4529
E-MAIL zabelequ@mwt.net

25952 STATE HWY 27
EASTMAN, WIS. 54626

WARRENTY CARD

THE FOLLOWING INFORMATION IS NEEDED FOR WARRENTY TO APPLY
TO THIS PRODUCT, MADE BY ZABEL EQUIPMENT, INC., EASTMAN, WI.

NAME: _____ PHONE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

EQUIPMENT MODEL: _____ SIZE/LENGTH: _____

PURCHASED FROM: _____ SERIAL #: _____

INSTALLED BY: _____ DATE INSTALLED: _____

CHECK ALL THAT APPLY: ☐ BEEF ☐ DAIRY ☐ HOGS ☐
POULTRY ☐ SHEEP ☐

I HAVE RECEIVED A COPY OF THE OWNERS MANUAL AND HAVE BEEN
INSTRUCTED ON HOW TO USE THIS EQUIPMENT BY THE SELLER OR
INSTALLER OF THIS PRODUCT.

***** NOTE: THIS CARD MUST BE RETURNED WITHIN 30 DAYS OR
WARRENTY WILL BE VOID.



This symbol is used to point out important safety information. It means **"BE ALERT, YOUR SAFETY IS INVOLVED."** This symbol will be used with one of three signal words, **CAUTION, WARNING, or DANGER**, to indicate the degree of hazard. The signal word **CAUTION** is used to indicate hazards or unsafe practices which could result in minor personal injury. The word **WARNING** is used to indicate hazards or unsafe practices which could result in severe personal injury, dismemberment or death. The word **DANGER** is used to indicate immediate hazards which will result in severe personal injury, dismemberment or death if these hazards are not avoided.

ZABEL EQUIPMENT, INC.

MODEL ZTF1630 16" CENTERFILL FEEDER

SAFETY

1. Keep all guards and shields in place. Moving parts can crush and dismember. Failure to do so may result in personal injury or death.
2. Clear the area before equipment starts up.
3. Keep hands, feet, and loose clothing away from moving parts,
4. Never stand, sit, lean on, or reach into the feeder while it is in operation.
5. Be certain that all moving parts have stopped and main power source is shut off and locked out before servicing the feeder, moving parts can crush and dismember. Failure to do so may result in a personal injury or death.
6. Disconnect the power source before setting the motor overload button or switch.
7. Only a properly instructed person or persons should operate the feeder.
8. All electrical work should be done by a qualified electrician and in accordance with all state and local codes and requirements.
9. Escaping hydraulic fluid under pressure can penetrate the skin and cause serious injury. Relieve all pressure from the hydraulic system before disconnecting or making any kind of adjustment or repair.

NEGLIGENT OPERATION MAY RESULT IN PERSONAL INJURY OR DEATH: OBEY ALL SAFETY PRECAUTIONS. PAY STRICT ATTENTION WHERE EVER THIS SYMBOL APPEARS: FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY. All operators must use their best judgement and follow good general safety practices in the safe operation of this and all other machinery. All photos in this manual are for illustrative purposes only. In many photos the shields or guards may be off to illustrate a particular detail, Never operate this unit without all guards and shields in place.



MODEL ZTF 1630 TRAVELING FEEDER

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BEFORE YOU START- PLAN THE INSTALLATION ZABEL EQUIPMENT MODEL ZTF1630 TRAVELING FEEDER

1. **READ THIS MANUAL THOROUGHLY.** MAKE SURE THAT YOU READ THIS MANUAL COMPLETELY, AND FAMILIARIZE YOURSELF WITH THE PARTS OF THE EQUIPMENT YOU ARE INSTALLING BEFORE YOU BEGIN.
2. DECIDE HOW THIS FEEDER IS TO BE SUPPORTED AND FASTENED INTO POSITION. HANGERS OR OTHER SUPPORTS MUST BE SECURELY FASTENED TO A SOLID SUPPORT STRUCTURE.
3. THIS TRAVELING FEEDER HAS THE CAPACITY TO HANDLE 2 to 3 UNLOADER. SOME DISCRETION MAY BE NEEDED, DEPENDING ON SIZE OF UNLOADER. **DO NOT OVERLOAD THE FEEDER.**
4. CAREFULLY DETERMINE LOCATION OF HANGERS AS THIS WILL DETERMINE WHERE THE FEED WILL FALL IN BUNK, THEN POSITION ACCORDINGLY.
5. TOOLS NEEDED TO ASSEMBLE THE TRAVELING FEEDER ARE:
 1. 3/4", 5/8", 9/16", 1/2" AND 7/16" WRENCHES.
 2. RATCHET WITH 3/4" AND 9/16" SOCKETS.
 3. VISE GRIP AND CRESENT WRENCH.
 4. GREASE GUN.
 5. PLIERS.
 6. STRING OR CHALK LINE AND LEVEL.

SPECIFICATIONS MODEL ZTF1630 TRAVELING FEEDER

LENGTH- SPANNING 30' TO 200' IN LENGTH.

BELTING- 16" PVC, EASY FLEX, LOW TEMPERATURE, SILAGE ACID AND MOISTURE RESISTANT.

CAPACITY- CAN MOVE MATERIAL FROM 2 TO 3 UNLOADER

FRAME- 12 GAUGE STEEL, DOUBLE DIPPED CAT YELLOW PAINT.

OPTIONS AVAILABLE- 1', 2', 4', AND 8' SECTIONS

ELECTRICAL- 1 HP MOTOR RECOMMENDED, 1-1/2 HP MOTOR OPTIONAL.

POLICY

IN KEEPING WITH OUR POLICY OF CONTINUALLY IMPROVING PRODUCTS. ZABEL EQUIPMENT, INC. RESERVES THE RIGHT TO CHANGE OR REDESIGN ANY PRODUCT OR PART WITHOUT INCURRING THE OBLIGATION TO INSTALL OR FURNISH SUCH CHANGES ON PRODUCTS PREVIOUSLY DELIVERED. DRAWINGS SHOWN IN THIS MANUAL ARE REPRESENTATIONAL AND MAY VARY FROM ACTUAL PRODUCTION UNITS.

INTRODUCTION

THE ZTF1630 CENTER FILL FEEDER IS DESIGNED FOR YEARS OF MAINTANCE FREE SERVICE. GREASABLE BEARINGS ARE USED THROUGHOUT THE ENTIRE FEEDER. OUR UNIQUE DESIGN IS POWERED BY A HYDRAULIC DRIVE, RESULTING IN MUCH LOWER HORSEPOWER REQUIRMENTS THAN OTHER MODELS. QUIET, EASY ROLLING NYLON ROLLERS, GLIDE SMOOTHLY TO CARRY THE FEED ALONG THE TRACK. EVEN DISTRIBUTION OF FEED PREVENTS LIVESTOCK FROM CROWDING AROUND THE BUNK. THE 16" WIDE BELT HAS THE CAPACITY TO HAUL FEED AWAY FROM VIRTUALLY ANY SETUP. THIS FEEDER SAVES YOU TIME AND MONEY BY REDUCING FEEDING TIME. THESE FEATURES MAKE THIS ONE OF THE MOST EFFICIENT AND LONG LASTING FEEDER ON YTHE MARKET.

SAFETY PRECAUTIONS

1. DO NOT USE OR OPERATE THIS EQUIPMENT UNTIL THIS MANUAL HAS BEEN READ AND UNDERSTOOD. SERIOUS INJURY COULD RESULT IF OPERATOR IS IMPRPERLY INSTRUCTED.
2. KEEPS ALL GAURDS, SHIELDS AND SAFETY DEVICES IN THE PROPER PLACE, KEEP ALL HARDWARE TIGHT AND PROPERLY ADJUSTED TO BE SURE THAT THE EQUIPMENT IS IN PROPER WORKING ORDER. FAILURE TO DO SO COULD RESULT IN INJURY TO OPERATOR OR DAMAGE TO EQUIPMENT.
3. BE SURE AREA IS CLEAR OF OBSTICALES BEFORE OPERATING THE CONVEYOR AND NEVER ALLOW ANYONE TO STAND ON OR NEAR THE UNIT. NEVER LEAVE THE UNIT RUNNING WHEN UNATTENDED.
4. KEEPS HANDS, FEET AND CLOTHING AWAY FROM POWER DRIVEN PARTS WHILE THE UNIT IS IN OPERQATION . FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY.
4. DISCONNECT POWER AND V-BELT WHEN MAKING AND AJUSTMENTS OR SERVICING THE UNIT TO INSURE AGAINST ANY ACCIDENTAL TURNING ON OF THIS CONVEYOR UNIT. FAILURE TO DO THIS COULD RESULT IN INJURY TO THE PERSON DOING SERVICE OR DAMAGE THE EQUIPMENT.
5. KEEP ALERT WHEN OPERATING ANY PIECE OF EQUIPMENT AND AFTER USING, PLEASE SHUT OFF AND LOCK OUT POWER.

ELECTRICAL PRECAUTIONS

1. USE EXTREME CAUTION AROUND ELECTRICAL COMPONENTS. WE ASSUME NO RESPONSIBILITY FOR THE ELECTRICAL WIRING USED WITH THIS MACHINE AND WILL NOT BE LIABLE FOR FAILURE OF THE EQUIPMENT DUE TO IMPROPER ELECTRICAL POWER INSTALLATION.
2. ELECTRICAL WIRING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN TO MEET LOCAL ELECTRICAL REQUIRMENTS. MAKE SURE TO CHECK ALL LOCAL, NATIONAL AND STATE CODES FOR PROPER ELECTRICAL INSTALLATION. IMPROPER OR INADEQUATS WIRING CAN KILL OR CAUSE FIRES.

MAINTENANCE OF HYDRAULIC SYSTEM

DURING THE ASSEMBLY AND SERVICE OF YOUR HYDRAULIC POWER PACK, PLEASE FOLLOW THESE GUIDELINES:

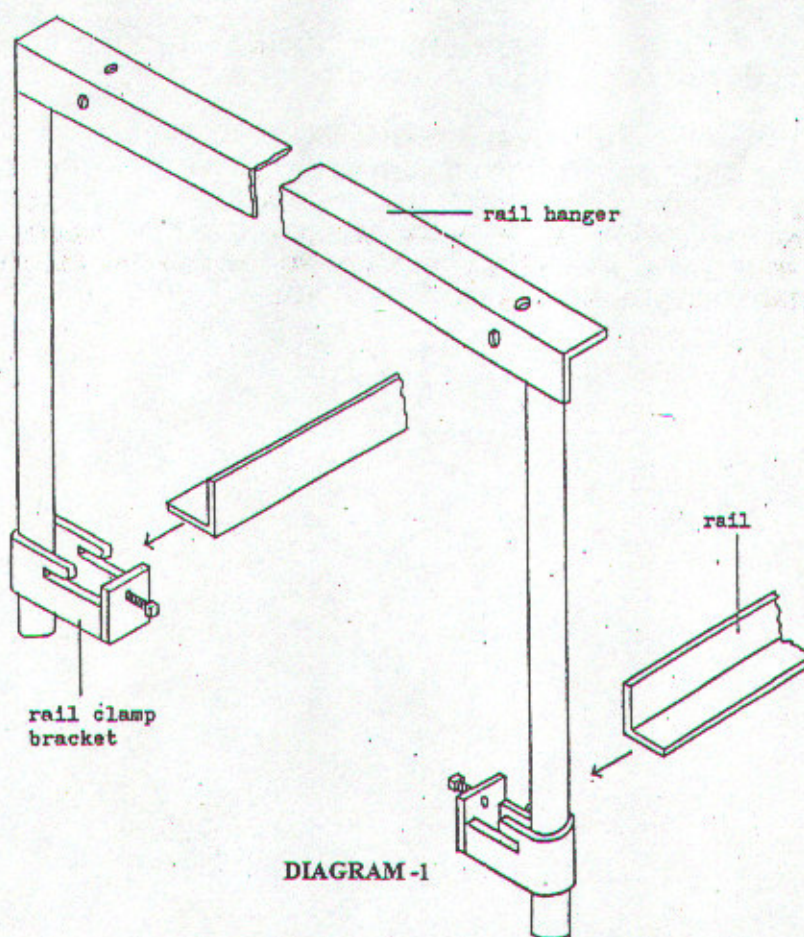
- 1. BE SURE TO KEEP HYDRAULIC SYSTEM CLEAN. CONTAMINANTS IN THE SYSTEM WILL CAUSE PREMATURE PARTS FAILURE AND WEAR**
- 2. FILL RESERVOIR WITH CLEAN OIL FROM A CLEAN CONTAINER.**
- 3. USE COMMON SENSE PRECAUTIONS TO PREVENT ENTRY OF CONTAMINANTS TO THE HYDRAULIC SYSTEM WHEN COMPONENTS ARE TEMPORARILY REMOVED FOR SERVICE.**
- 4. DO NOT RUN THE SYSTEM WITHOUT THE CORRECT FILTER IN PLACE. CHANGE FILTER EVERY YEAR OR TWO.**
- 5. CHECK THE RESERVOIR LEVEL MONTHLY AND ADD FLUID IF REQUIRED.**
NOTE: THE ONLY WAY FOR THE FLUID LEVEL TO DROP IS THROUGH LEAKS. IF FLUID LEVEL IS CONSISTENTLY LOW, CHECK FOR A LEAK AND CORRECT. ESCAPING HYDRAULIC FLUID UNDER PRESSURE CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY. WEAR PROPER HAND AND EYE PROTECTION WHEN CHECKING FOR LEAKS. USE A PIECE OF WOOD OR CARDBOARD INSTEAD OF THE HANDS.

INSTALLATION PROCEDURE

PART 1: MOUNTING RAIL HANGERS AND RAILS

STEP 1: MOUNT THE RAIL HANGERS ON THE CEILING OR ABOVE MATERIAL. DETERMINE IN THE DESIRED POSITION OF WHERE FEEDER IS TO BE MOUNTED. USE 3/8" LAGS OR BOLTS TO FASTEN. MAKE SURE TO KEEP IN MIND THAT THE FEED WILL BE CENTERED UNDER THE RAIL HANGERS. USE A STRING OR CHALKLINE TO MAKE SURE THE RAIL HANGERS ARE VERY STRAIGHT. RECOMMENDED SPACING OF RAIL HANGERS ARE 6'.

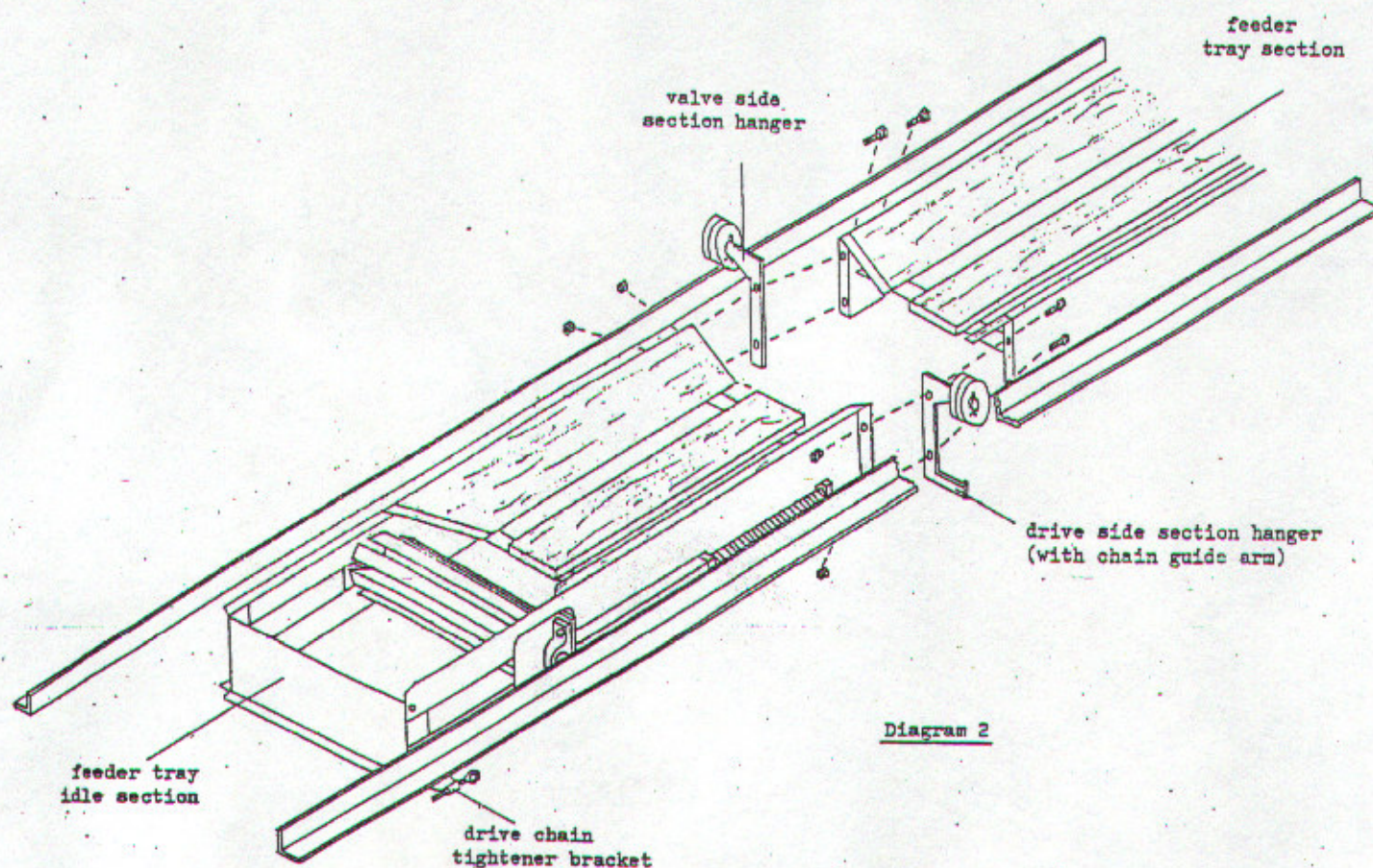
STEP 2: DETERMINE DESIRED HEIGHT OF FEEDER ABOVE BUNK OR MANGER FLOOR, (NOTE: BOTTOM OF FEED TRAY SETS 5" BELOW BOTTOM OF RAIL.) MOUNT THE 2" x 2" ANGLE RAIL SECTIONS ON THE HANGERS USING THE RAIL CLAMP BRACKETS. (SEE DIAGRAM 1.) STARTING FROM THE CENTER OF THE BUNK, OFFSET THE CENTER OF THE FIRST RAIL ANGLE ONE FOOT FROM CENTER. (PERFERABLY TOWARDS THE LOWER END OF THE BUNK.)



STEP 3: MAKE SURE RAIL IS STRAIGHT BY USING A CHALKLINE OR STRING. TIGHTEN THE SET SCREW ON THE RAIL CLAMP BRACKET WHEN THE RAIL IS MOUNTED AND STRAIGHT.

PART 2: ASSEMBLY OF FEEDER TRAY

STEP 1: BOLT ONE FEEDER TRAY, IDLE SECTION TO THE FIRST FEEDER TRAY SECTION, BY USING FOUR 3/8x1-1/4" HEX HEAD NBOLTS. ONE SECTION HANGER MUST BE BOLTED ON EACH SIDE BETWEEN THE SECTIONS. THE NYLON ROLLERS SHOULD REAT ON THE TRACK. (SEE DIAGRAM 2.)



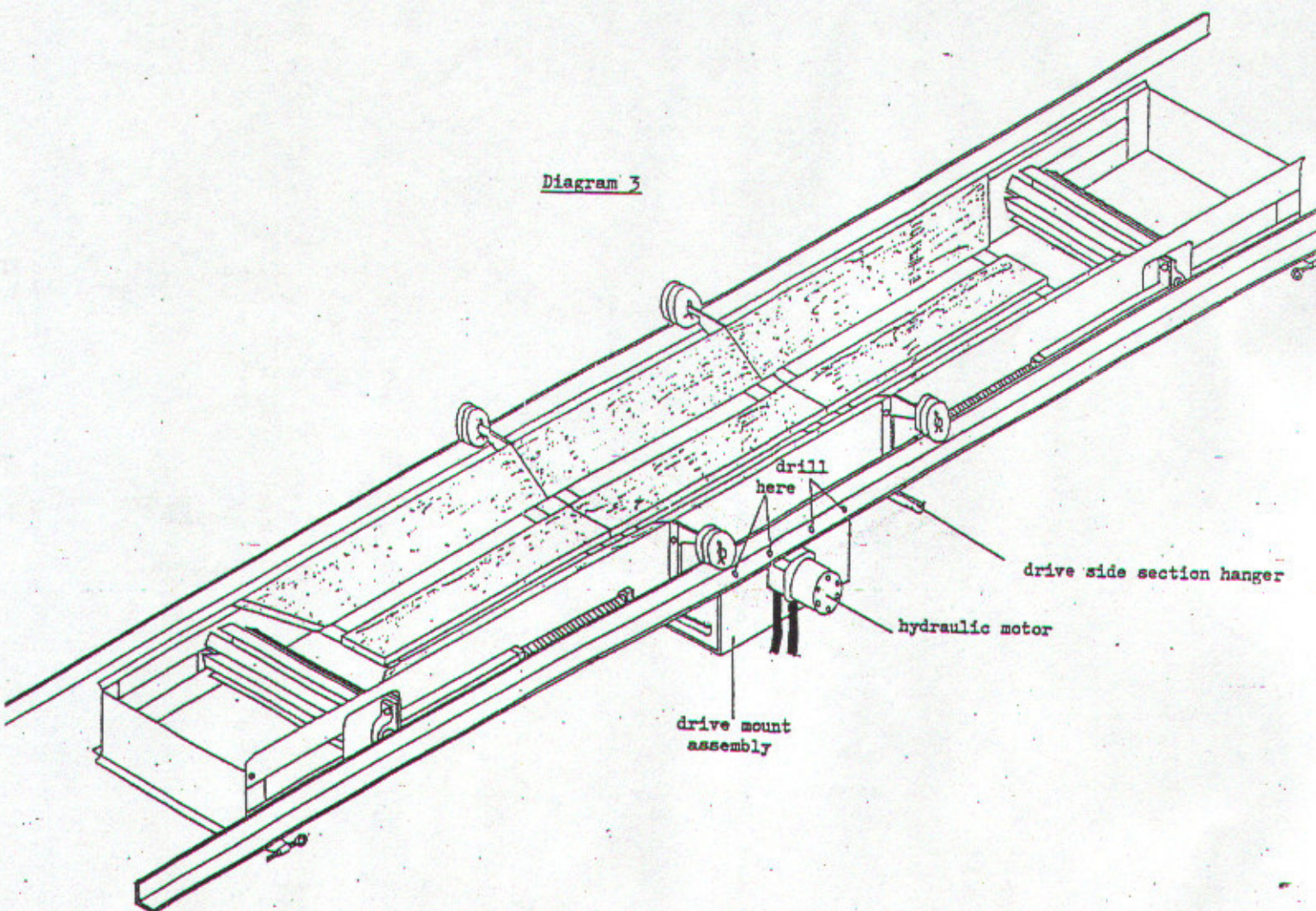
NOTE: MAKE SURE THE DRIVE SIDE SECTION HANGERS (WITH CHAIN GUIDE ARMS) ARE ON THE SAME SIDE OF THE FEEDER AS THE DRIVE CHAIN TIGHTENER BRACKET.

STEP 2: CONTINUE ASSEMBLING THE LENGTH OF THE FEEDER TRAY UNTIL ALL FEEDER TRAY SECTIONS HAVE BEEN CONNECTED. THE OTHER FEEDER TRAY IDLE SECTION WILL BE THE LAST PART CONNECTED.

PART 3: ATTACHING DRIVE MOUNT ASSEMBLY TO TRACK

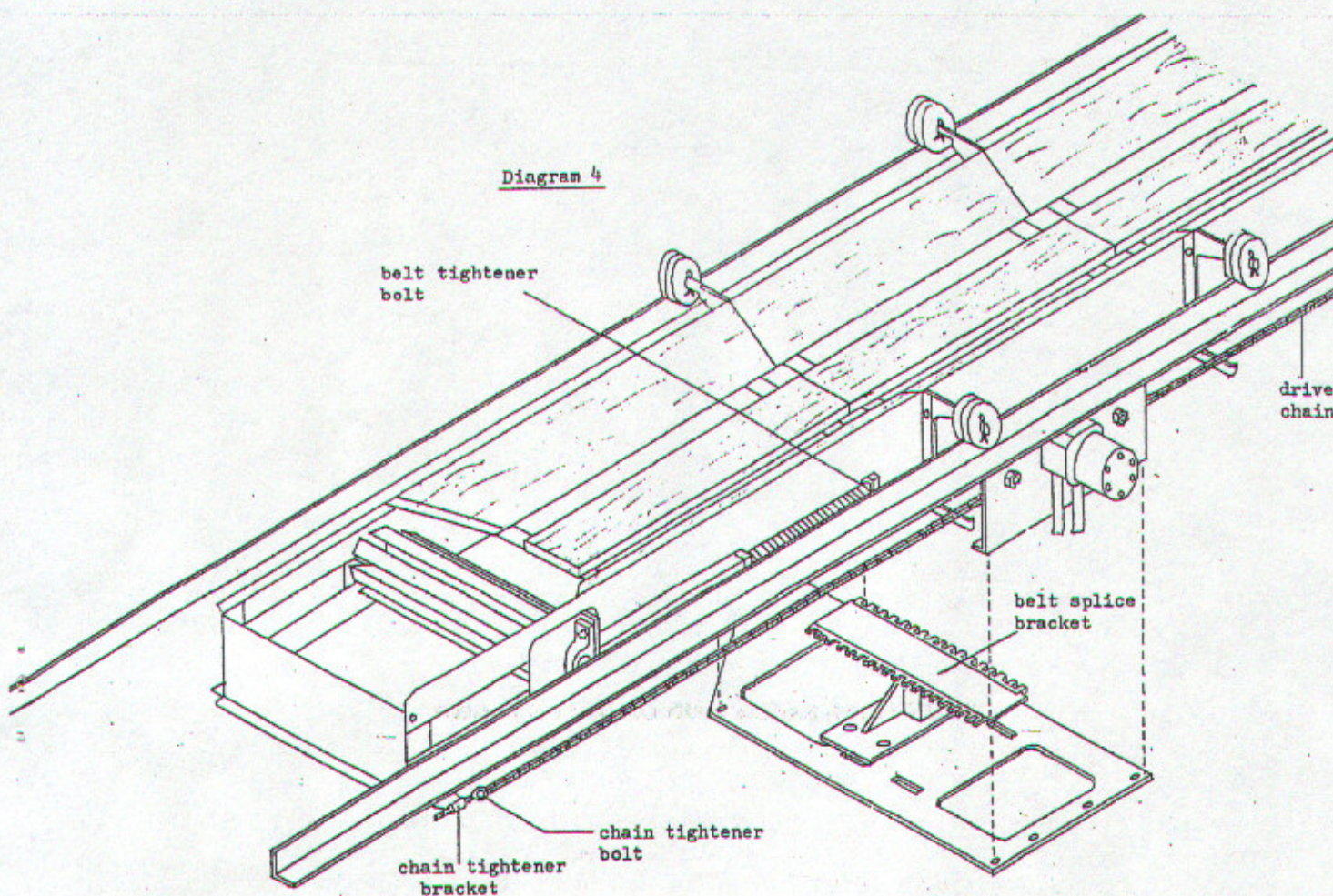
NOTE : WHEN BOLTING DRIVE MOUNT ASSEMBLY TO THE TRACK, MAKE CERTAIN THE HYDRAULIC MOTOR ON THE DRIVE MOUNT ASSEMBLY IS ON THE SAME SIDE OF THE FEEDER AS THE DRIVE SIDE SECTION HANGERS. THIS IS VERY IMPORTANT.

Diagram 3



STEP 1: USE EIGHT $\frac{3}{8} \times 1$ " HEX HEAD BOLTS TO ATTACH DRIVE MOUNT ASSEMBLY TO CENTER OF THE TRACK. (SEE DIAGRAM 3)

PART 4: INSTALLATION OF BELT



STEP 1: PLACE THE 16" BELT ON THE FEEDER TRAY WITH THE PVC COATED (BLACK SHINNY) SIDE UP. FEED THE BELT THROUGH THE BOTTOM SIDE OF THE FEED TRAY, MAKING SURE TO GO OVER ALL THE ROLLERS.

STEP 2: ATTATCH EACH END OF THE BELT TO THE BELT SPLICE BRACKET FOUND ON THE DRIVE MOUNT ASSEMBLY. (SEE DIAGRAM 4) MAKE SURE TO MESH THE LOOPS OF THE METAL BELT SPLICE WITH THE LOOPS ON THE BELT SPLICE BRACKET. THREAD THE CONNECTOR CABLE THROUGH THE SPLICE. ONCE THE CABLE IS IN PLACE, MAKE SURE YOU CRIMP THE RETAINING WASHERS ON BOTH ENDS OF THE CABLE WITH A PLIERS.

STEP 3: TIGHTEN BELT TIGHTNER BOLTS ON EITHER SIDE OF THE IDLE SECTION UNTIL BELT IS SUFFICIENTLY TIGHT AND CENTERED ON THE ROLLERS. TIGHTEN BOTH ENDS EQUALLY, OR TRACKING PROBLEMS WILL OCCUR.

SPROCKET AND CHAIN DIAGRAM

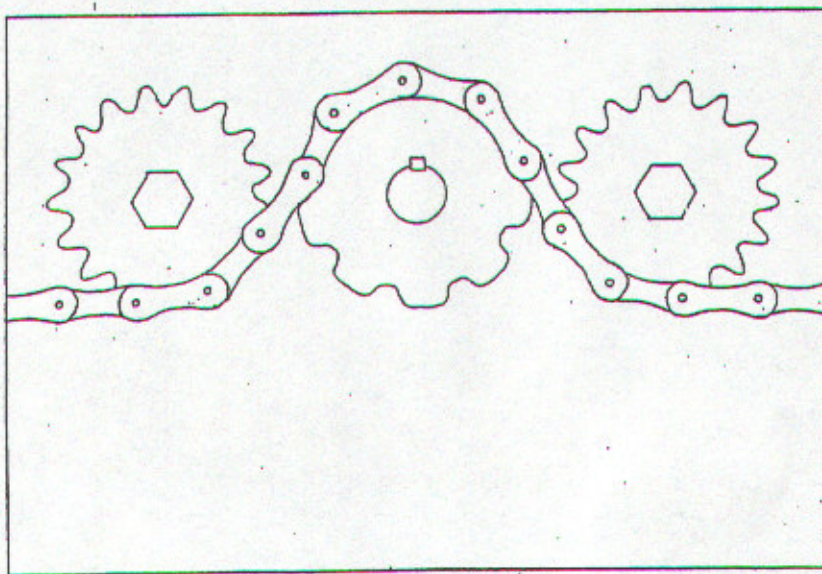


Diagram 5

PART 5: INSTALLATION OF DRIVE CHAIN

- STEP 1: ATTATCH THE 3/8" CHAIN TIGHTENER BOLT TO THE END OF THE NO. 2050 DRIVE CHAIN BY USING THE PROVIDED CONNECTOR LINK. PLACE THE CHAIN TIGHTENER BOLT THROUGH THE CHAIN TIGHTENER BRACKET AND ATTATCH THE TWO 3/8" NUTS TO THE END OF THE BOLT TO SECURE IT. (SEE DIAGRAM 4)**
- STEP 2: PLACE THE CHAIN OVER ALL THE CHAIN GUIDE ARMS. THREAD THE CHAIN THROUGH THE DRIVE MOUNT ASSEMBLY GOING UNDER THE IDLE SPROCKETS AND OVER THE DRIVE SPROCKET. (SEE DIAGRAM 5)**
- STEP 3: ATTATCH THE LOOSE END OF THE DRIVE CHAIN TO THE OPPOSITE END CHAIN TIGHTENER BRACKET AS DESCRIBED IN STEP .**
- STEP 4: TIGHTEN THE 3/8" NUTS ON THE END OF THE CHAIN TIGHTENER BOLT UNTIL THE CHAIN SAGS LIGHTLY BETWEEN THE CHAIN GUIDE ARMS.**

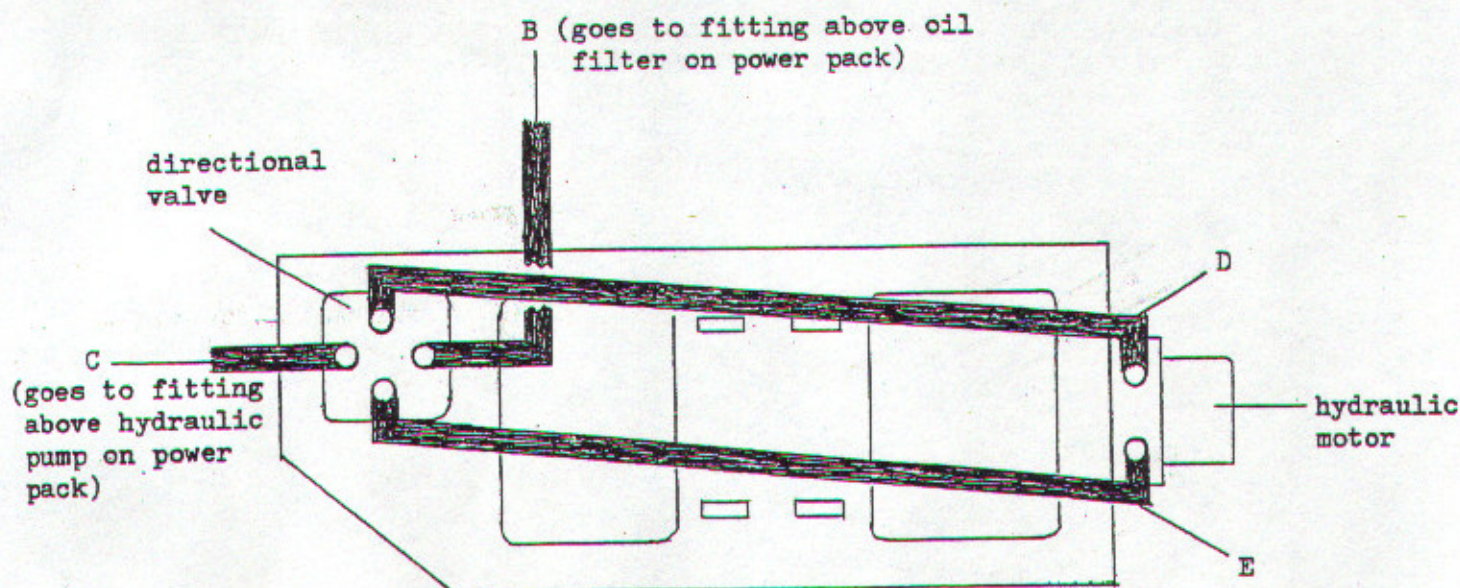
PART 6: INSTALLATION OF HYDRAULIC POWER PACK

STEP 1: MOUNT THE HYDRAULIC POWER PACK ON A STURDY SUPPORT IN A PLACE WHERE THE LIVESTOCK CANNOT REACH IT. IT IS BEST TO MOUNT IT ON THE SIDE OF THE HYDRAULIC VALVE (OPPOSITE THE DRIVE CHAIN SIDE).

STEP 2: FILL THE POWER PACK WITH OIL. USE 5 GALLONS OF A GOOD GRADE DEXTRON II ATF OIL. NOTE: DEPENDING ON INSTALLTION MORE THAN 5 GALLONS MAYBE REQUIRED. CHECK DIPSTICK FOR PROPER LEVEL. NOTE: WHEN ASSEMBLING FEEDER, IT IS IMPORTANT TO KEEP HYDRAULIC SYSTEM CLEANS. CONTAMINANTS IN THE HYDRAULIC SYSTEM WILL CAUSE PREMATURE PARTS WEAR AND FAILURE.

STEP 3: INSTALL HYDRAULIC HOSES ACCORDING TO THE DIAGRAM.

VIEW OF HYDRAULIC HOSE HOOK-UP FROM BENEATH FEEDER



STEP 4: ON POWER PACKS WHERE MOTOR IS NOT SUPPLIED, PUT THE COUPLINGS ON THE PUMP AND THE MOTOR. A 1 HP MOTOR IS RECOMMENDED BUT A 1-1/2 HP MOTOR IS OPTIONAL. PLACE THE COUPLING INSERT (X) IN THE COUPLING ON THE PUMP. SLIDE THE MOTOR SO THAT THE COUPLINGS ENGAGE. NOTE: ALIGN COUPLINGS USING A SHORT STRAIGHT EDGE TO PREVENT PREMATURE WEARING OF RUBBER COUPLING. BOLT MOTOR IN PLACE.

CAUTION

STEP 5: THE ELECTRICAL WIRING FOR THE UNIT IS THE REPOSIBILITY OF THE PURCHASER. ALL WIRING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH SAFETY CODES. MAKE SURE AN APPROPRIATE ON/OFF CONTROL SWITCH IS USED AND THAT ALL WIRING AND SWITCHES ARE KEPT OUT OF REACH OF LIVESTOCK. MOTOR SHOULD BE WIRED TO RUN CLOCKWISE FACING THE END OPPOSTE THE SHAFT.

PART 7: ADJUSTMENT OF VALVE TRIP

STEP 1: RUN THE FEEDER TRAY TO ONE END OF THE BUNK SO THAT THE VALVE TRIP BOLT APPROACHES THE VALVE TRIP MECHANISM. (AS SHOWN ON PAGE 15)

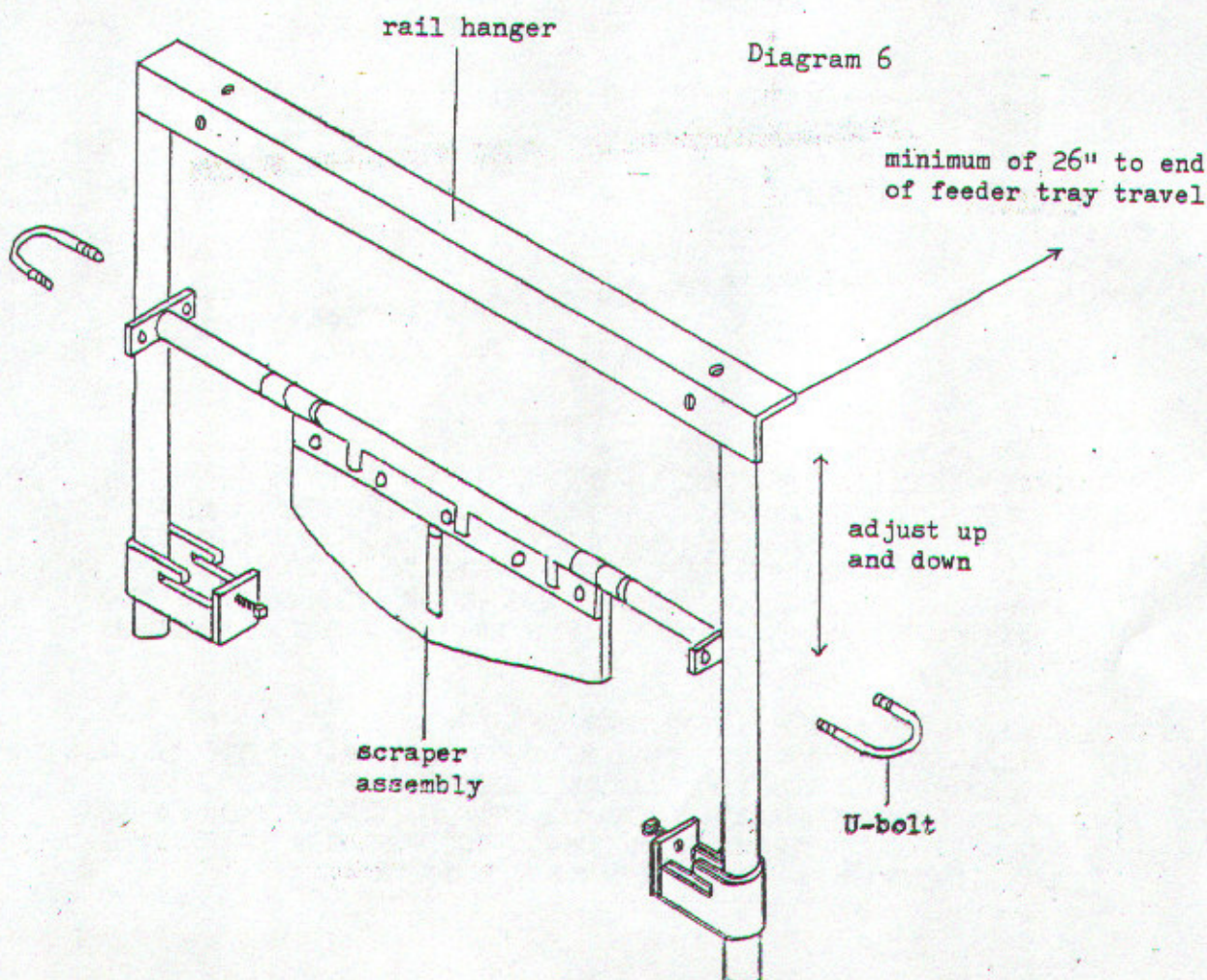
STEP 2: IN SHORT BURSTS, RUN THE FEEDER TRAY AHEAD SO THAT THE $\frac{1}{2}$ " VALVE TRIP BOLT CONTACTS THE EAR ON THE VALVE TRIP MECHANISM. (PLEASE REFER TO PAGE 15) ADJUST THE VALVE TRIP BOLT OUT UNTIL IT TRIPS THE SPRING ON THE VALVE TRIP MECHANISM. (THE VALVE TRIP MECHANISM WILL THEN SWITCH THE DIRECTIONAL VALVE.)

STEP 3: RUN THE FEED TRAY TO THE OTHER END OF THE BUNK. REPEAT STEPS 1 & 2 SO THAT THIS END IS PROPERLY ALLIGNED ALSO.

STEP 4: RUN THE FEEDER FOR A FEW MINUTES, OBSERVING THE VALVE TRIP AS IT IS MOVED FROM SIDE TO SIDE. SHUT OFF THE MACHINE & MAKE ANY MINOR ADJUSTMENTS IF THEY BECOME NECESSARY.

PART: 8 INSTALLATION OF FEED SCRAPER

STEP 1: RUN THE FEEDER TRAY TO ONE END OF THE BUNK (PERFERABLY THE LOWER END)- MAKE NOTE OF THE FARTHEST POINT OF THE FEEDER TRAY TRAVEL (WHERE THE TRAY REVERSES). MARK THIS POINT.



STEP 2: FROM THIS MARK, MOUNT THE SCRAPER HANGER A MINIMUM OF 26" TOWARDS THE CENTER OF THE EXCITING BUNK. (SEE DIAGRAM 6.)- BE SURE TO CENTER SCRAPER OVER THE BELT

STEP 3: ADJUST THE SCRAPER ASSEMBLY SO THAT THE PLASTIC ON THE SCRAPER LIGHTLY SCRAPES THE BELT IN THE FEED TRAY. RAISE OR LOWER THE SCRAPER BY ADJUSTING THE 5/16" U-BOLTS ON EITHER SIDE OF THE BELT SCRAPER ASSEMBLY. TIGHTEN THE U-BOLTS WHEN THE SCRAPER IS AT THE PROPER HEIGHT.

STEP 4: ASSEMBLY IS NOW COMPLETED. BEFORE OPERATING THE UNIT, PLACE THE "WARNING" DECALS (FOUND IN THE MAIN PARTS BOX) ON THE UNIT. THE DECALS SHOULD BE PLACED ON THE SIDE OF THE FEED TRAY NEAR THE CENTER. PUT ONE ON EACH SIDE IN A CLEARLY VISIBLE PLACE
 ^ WARNING: NEVER OPERATE THE FEEDER WITHOUT ALL SHIELDS IN PLACE. FAILURE TO FOLLOW THE PROPER SAFETY PRECAUTIONS MAY CAUSE OR RESULT IN PERSONAL INJURY OR DEATH.

BEFORE OPERATION, THOROUGHLY READ AND UNDERSTAND THIS ENTIRE ASSEMBLY AND OPERATION INSTRUCTIONS MANUAL. PAY CLOSE ATTENTION TO THE SAFETY INFORMATION ON THE INSIDE FRONT COVER. COMPLETELY FAMILIARIZE YOURSELF WITH ALL CONTROL MECHANISMS FOR THIS UNIT.

OPERATION

GENERAL INFORMATION

READ THE SAFETY AND OPERATIONS SECTION OF THIS MANUAL BEFORE STARTING THE MACHINE.

ALWAYS SHUT OFF THE POWER, AND IF POSSIBLE LOCK IT IN THE OFF POSITION OR REMOVE THE FUSES BEFORE ATTEMPTING ANY MAINTANCE OR REPAIRS. WHEN YOU MUST OBSERVE THE OPERATION TO CHECK ANY ADJUSTMENTS MADE, ALWAYS DO SO FROM A SAFE DISTANCE.

WARNING: NEVER OPERATE THE MACHINE WITH ANY OF THE GUARDS OR SHIELDS REMOVED. FAILURE TO OBSERVE THE PROPER SAFETY PRECAUTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.

WARNING: KEEP HANDS, FEET, AND LOOSE CLOTHING AWAY FROM ALL MOVING PARTS. NEVER STAND, SIT, OR LEAN ON THE UNIT WHILE IT IS IN OPERATION

STEP 1: CLEAR THE AREA BEFORE STARTING THE UNIT UP. FAILURE TO CLEAR THE AREA MAY CAUSE SOMETHING TO BE WEDGED OR CAUGHT IN THE UNIT AND NOT ALLOW IT TO RUN SMOOTHLY. USE SAFETY PRECAUTIONS AT ALL TIMES.

STEP 2: START UP THE MACHINE AND CHECK IT FOR PROPER OPERATION.

STEP 3: START UP THE FILLING EQUIPMENT AND CHECK THE PLACEMENT OF THE MATERIAL.

STEP 4: WHEN THE DESIRED AMOUNT OF MATERIAL HAS BEEN CONVEYED, SHUT OFF THE FILLING EQUIPMENT.

STEP 5: CONTINUE RUNNING THE UNIT UNTIL ALL MATERIAL HAS BEEN DUMPED. WHEN THE UNIT IS EMPTY, SHUT IT OFF.

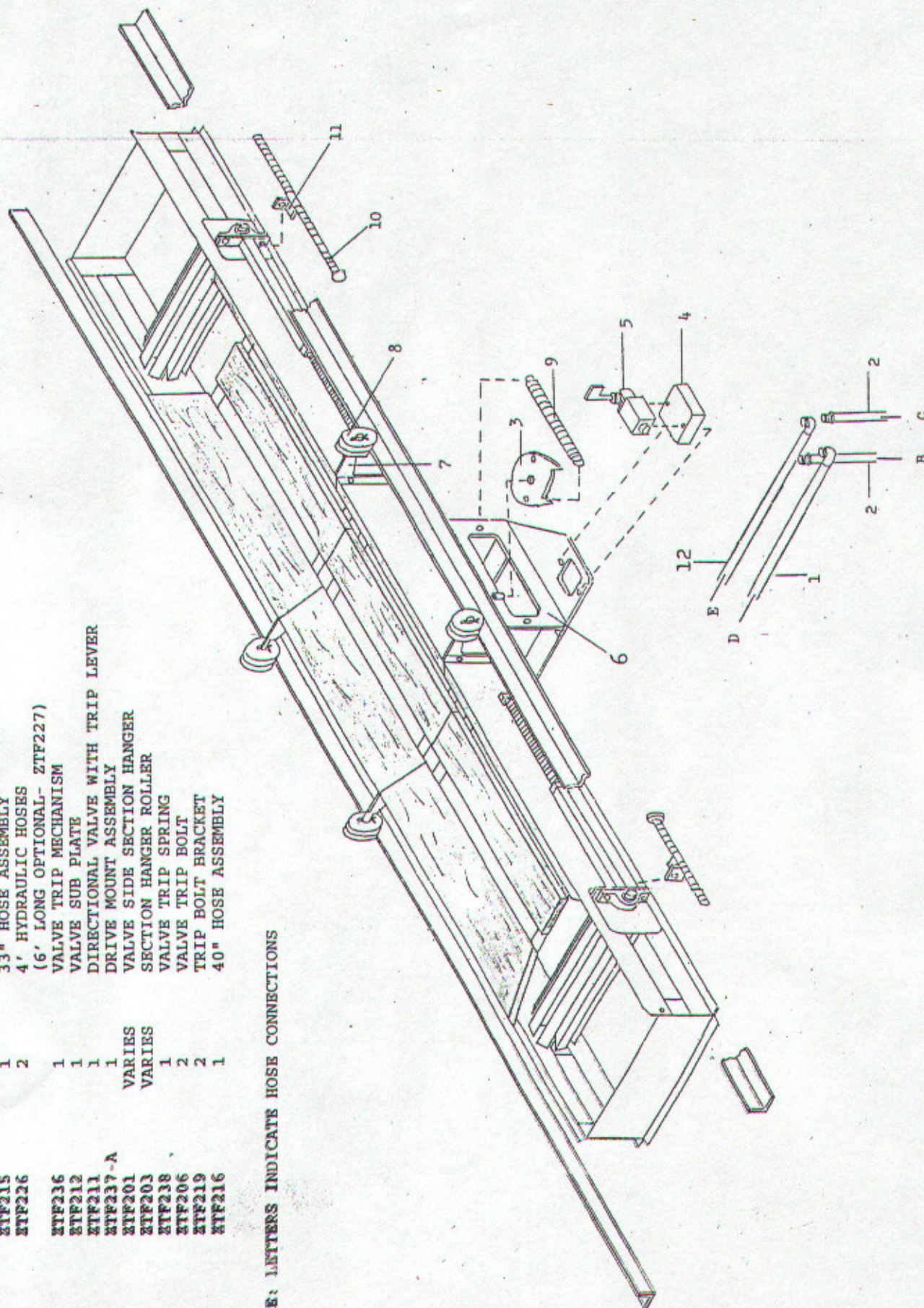
HOW TO ORDER PARTS

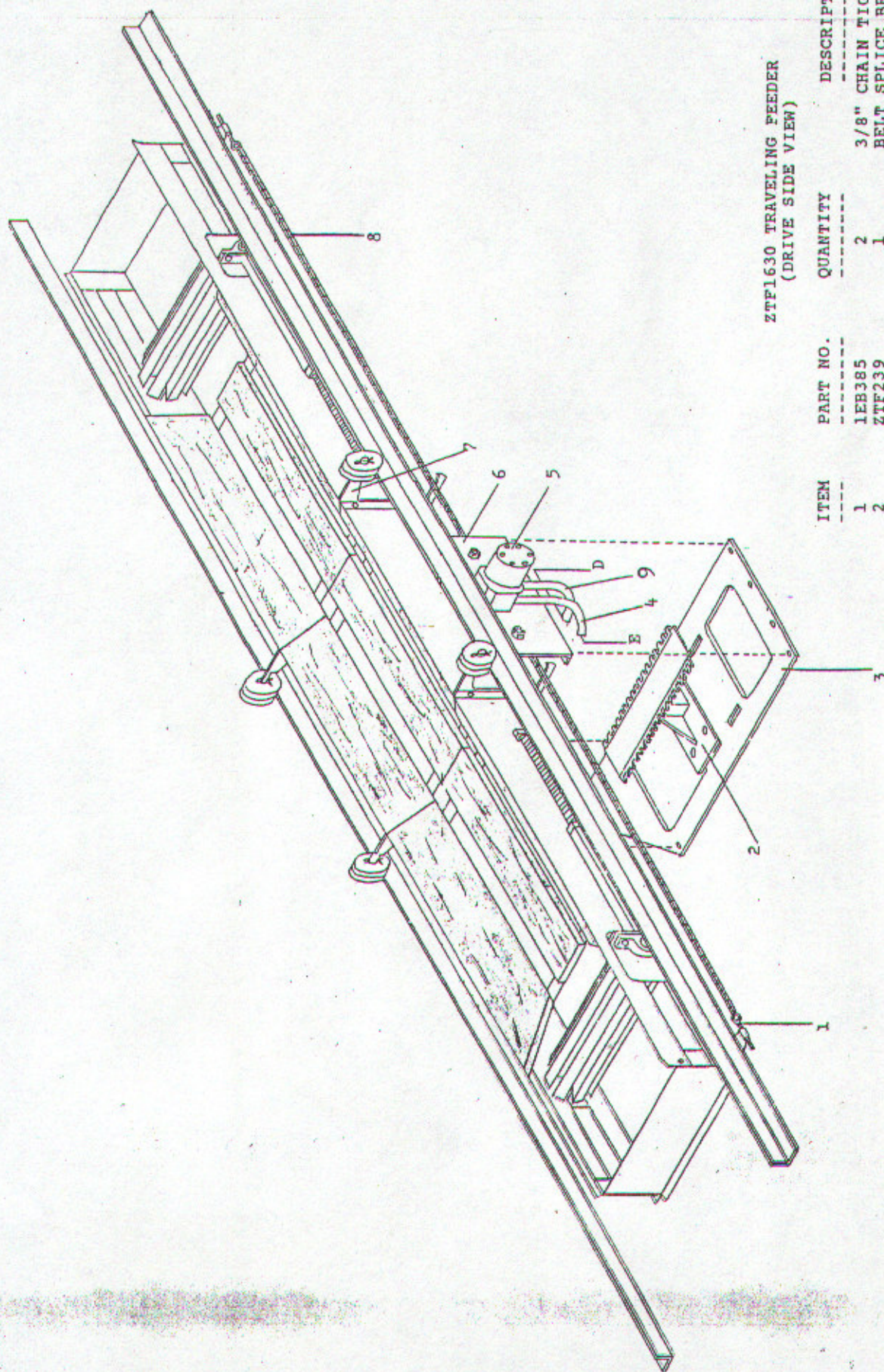
1. REFER TO ILLUSTRATION WHICH SHOWS THE PART TO BE ORDERED.
2. FIND THE PART ON THE ILLUSTRATION.
3. NOTE THE NUMBER AT THE END OF THE ARROW POINTING TO THE PART.
4. REFER TO THE PARTS LIST AND FIND THAT NUMBER UNDER THE ITEM COLUMN.
5. FLOW ACROSS THE PAGE TO COLUMN HEADED PART #. USE THIS NUMBER AND/OR PART NAME OF THE PART WHEN PLACING YOUR ORDER.

ZTF 1630 TRAVELING FEEDER
(VALVE SIDE VIEW)

ITEM	PART NO.	QUANTITY	DESCRIPTION
1	ZTF215	1	33" HOSE ASSEMBLY
2	ZTF226	2	4' HYDRAULIC HOSES (6' LONG OPTIONAL- ZTF227)
3	ZTF236	1	VALVE TRIP MECHANISM
4	ZTF212	1	VALVE SUB PLATE
5	ZTF211	1	DIRECTIONAL VALVE WITH TRIP LEVER
6	ZTF237-A	1	DRIVE MOUNT ASSEMBLY
7	ZTF201	VARIES	VALVE SIDE SECTION HANGER
8	ZTF203	VARIES	SECTION HANGER ROLLER
9	ZTF238	1	VALVE TRIP SPRING
10	ZTF206	2	VALVE TRIP BOLT
11	ZTF219	2	TRIP BOLT BRACKET
12	ZTF216	1	40" HOSE ASSEMBLY

NOTE: LETTERS INDICATE HOSE CONNECTIONS

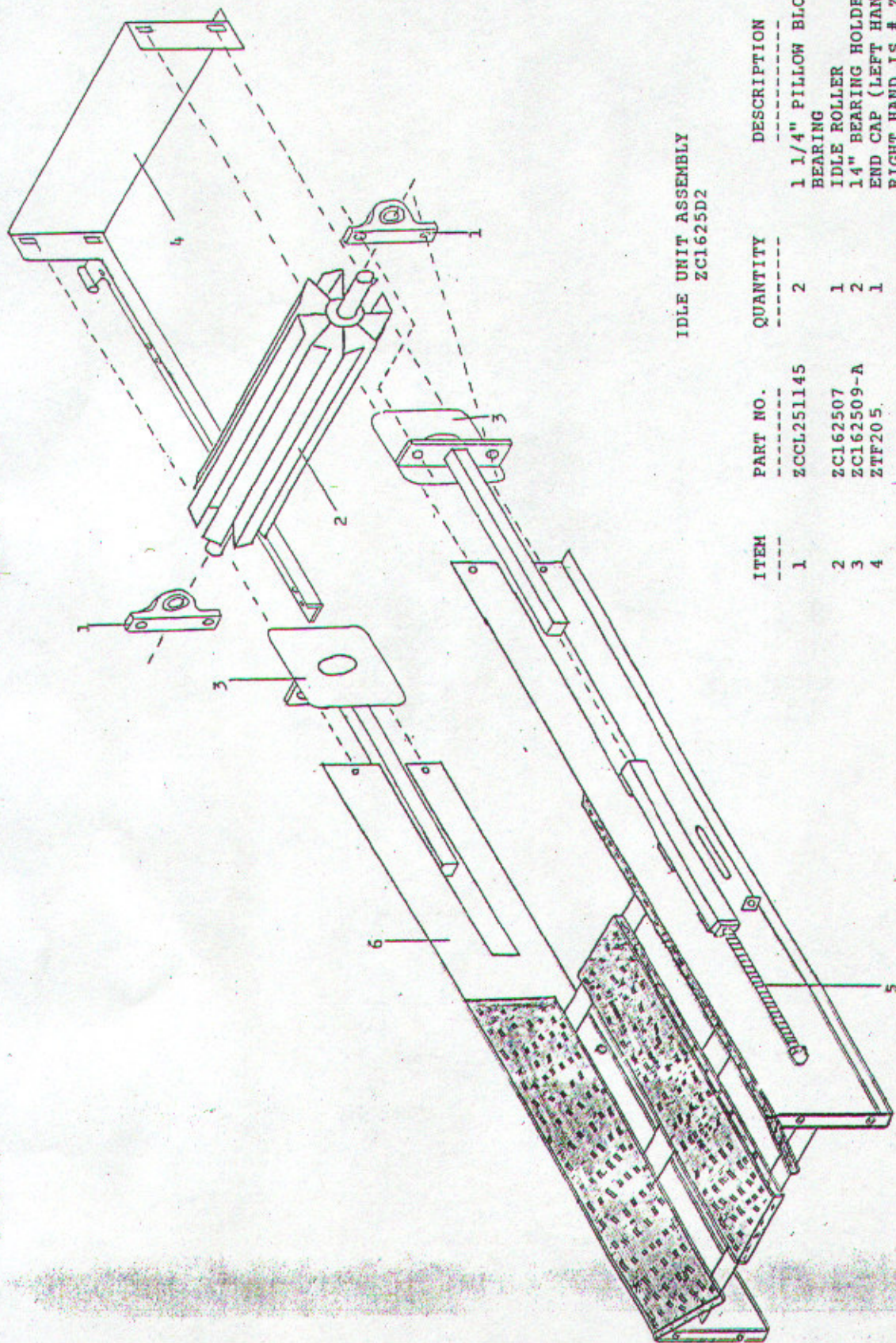




ZTF1630 TRAVELING FEEDER
(DRIVE SIDE VIEW)

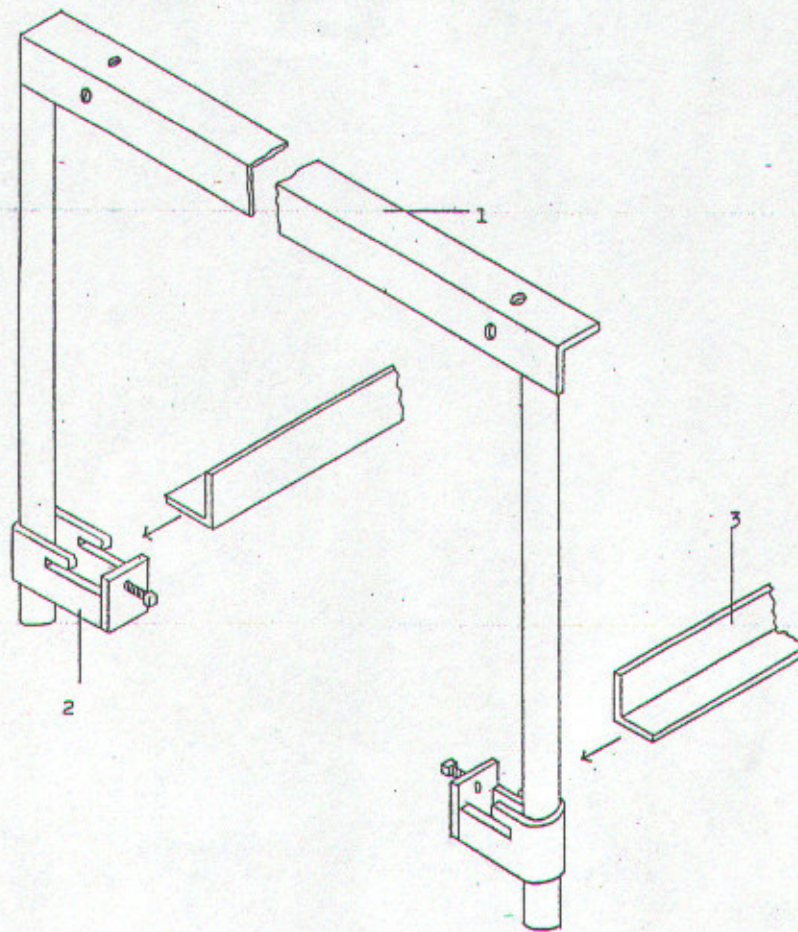
ITEM	PART NO.	QUANTITY	DESCRIPTION
1	1EB385	2	3/8" CHAIN TIGHTENER BOLT
2	ZTF239	1	BELT SPLICE BRACKET
3	ZTF237B	1	DRIVE MOUNT BASE
4	ZTF215	1	33" HOSE ASSEMBLY
5	ZTF240	1	HYDRAULIC MOTOR
6	ZTF237C	1	DRIVE MOUNT SIDE (DRIVE)
7	ZTF202	VARIES	DRIVE SIDE SECTION HANGER
8	X65	VARIES	NO. 2050 DRIVE CHAIN
9	ZTF216	1	40" HOSE ASSEMBLY

NOTE: LETTERS INDICATE HOSE CONNECTIONS

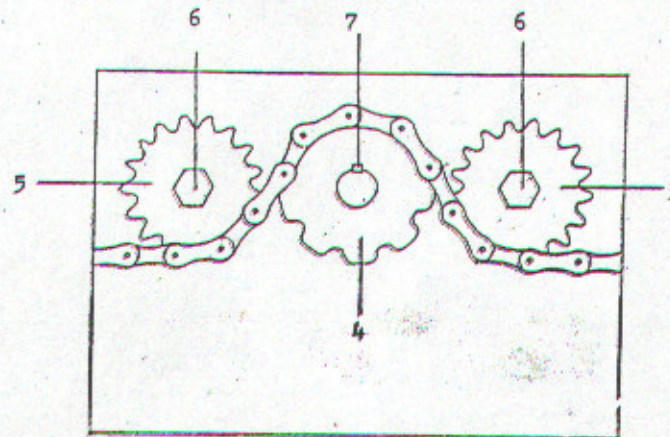


IDLE UNIT ASSEMBLY
ZC1625D2

ITEM	PART NO.	QUANTITY	DESCRIPTION
1	ZCCL251145	2	1 1/4" PILLOW BLOCK AND BEARING
2	ZC162507	1	IDLE ROLLER
3	ZC162509-A	2	14" BEARING HOLDER
4	ZTF205	1	END CAP (LEFT HAND SHOWN. RIGHT HAND IS # ZTF204.)
5	ZC162512	2	IDLE TIGHTENER BOLT, 3/4" X 12"
6	ZC162544	1	CONVEYOR IDLE FRAME



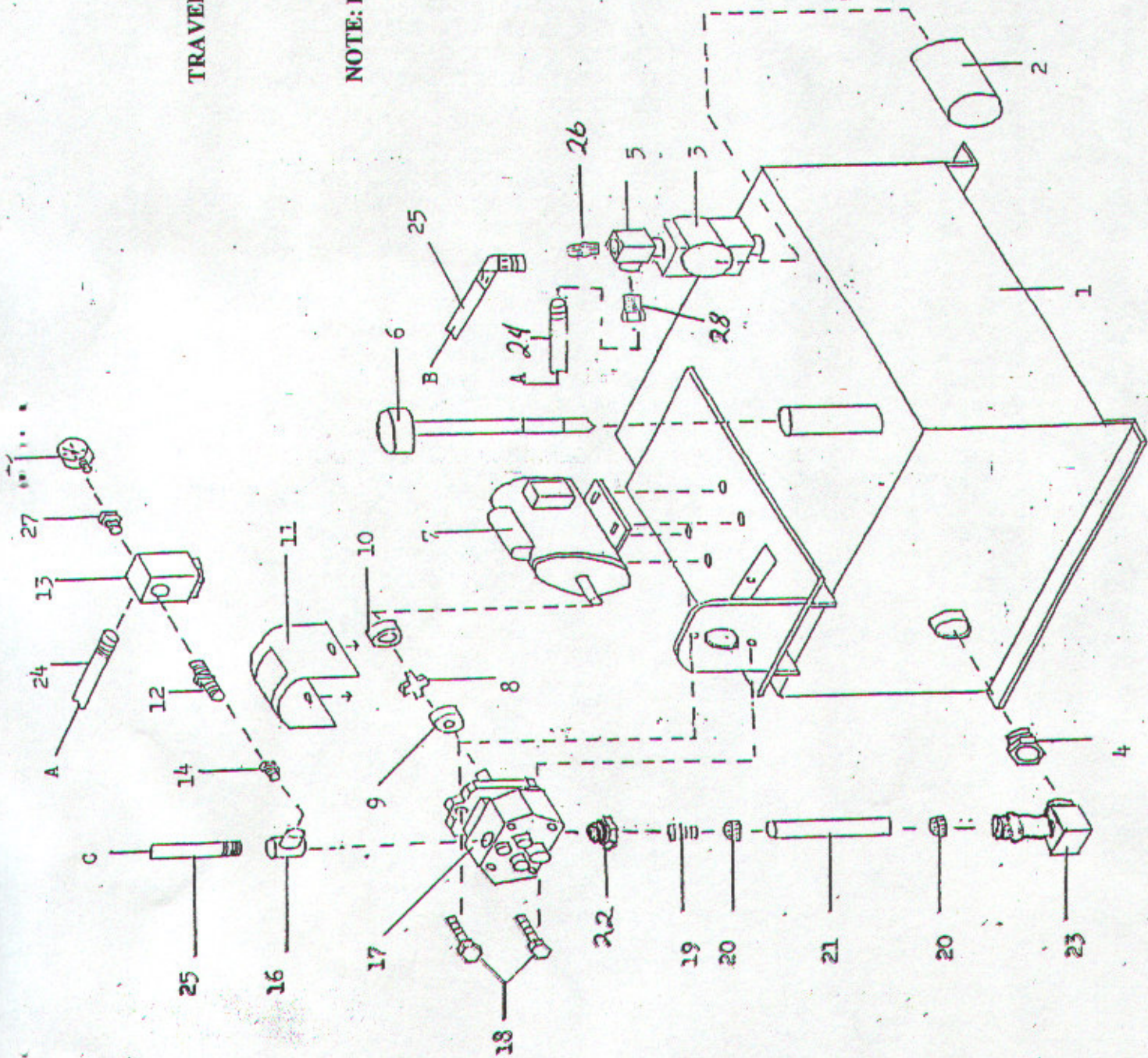
ITEM	PART NO.	QUANTITY	DESCRIPTION
1	ZTF104	VARIES	RAIL HANGER
2	ZTF233	VARIES	RAIL CLAMP BRACKET
3	ZTF101	VARIES	2" X 2" ANGLE RAIL (3', 6', OR 10')
4	ZTF234	1	NO. 50, 18 TOOTH, 1" BORE DRIVE SPROCKET
5	ZTF235	2	NO. 50, 17 TOOTH, 5/8" BORE IDLE SPROCKET
6	1BHS58212	2	5/8" X 2 1/2" HEX HEAD BOLT WITH NUT
7	X42	1	1/4" X 1" PIECE KEY STOCK



DRIVE AND IDLE SPROCKET ASSEMBLY

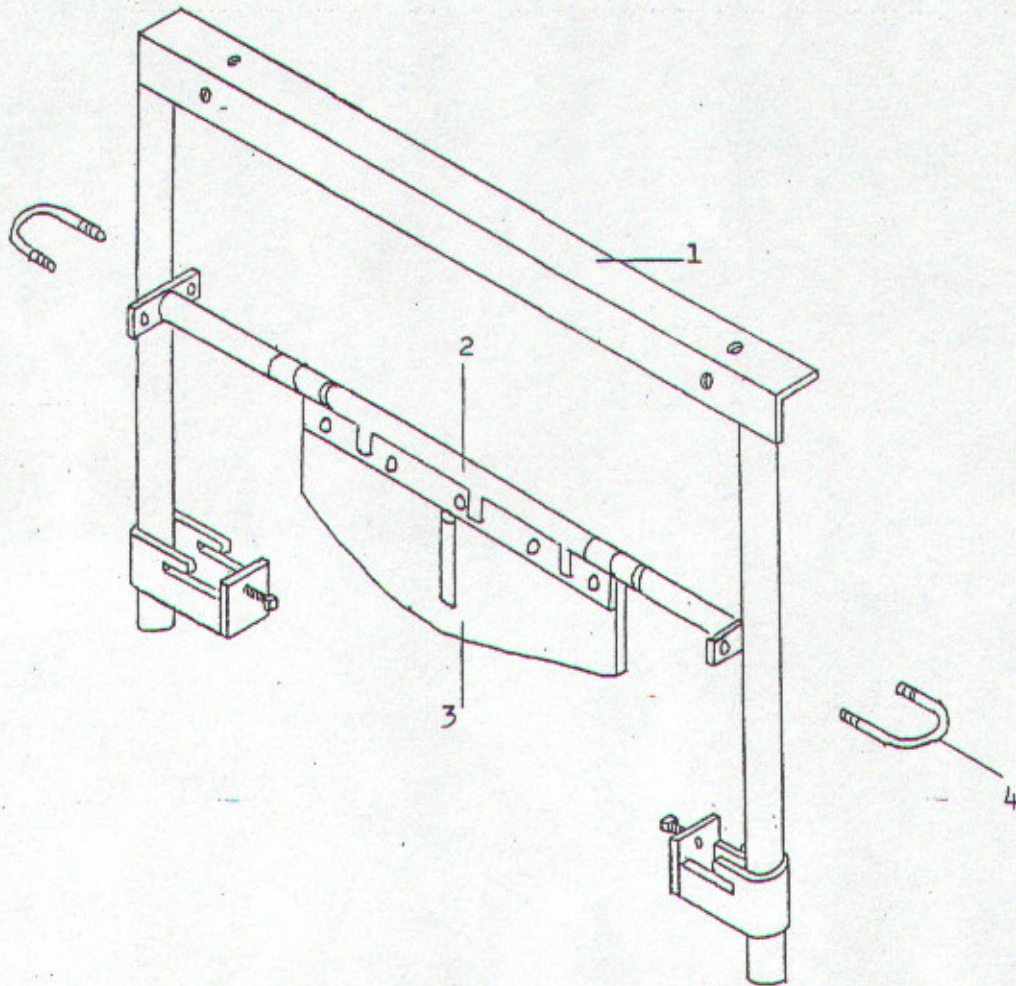
TRAVELING FEEDER POWER PACK
ASSEMBLY
ZTF108 (1, 1.5 OR 2)

NOTE: LETTERS INDICATE HOSE
CONNECTIONS.



ZTF108
TRAVELING FEEDER
POWER PACK ASSEMBLY

ITEM -----	PART NO. -----	QUANTITY -----	DESCRIPTION -----
1	ZTF210	1	OIL TANK WELDMENT
2	ZTF214	1	OIL FILTER (NAPA #1553, FRAM #1654)
3	ZTF208	1	FILTER BASE AND FILTER
4	ZTF209	1	MS-15100 SUCTION STRAINER
5	ZTF217	1	3/4" HYDRAULIC SERVICE TEE
6	ZEPM351	1	DIPSTICK
7	EM00	1	ELECTRIC MOTOR
8	ZTF228-I	1	COUPLING INSERT (NO.3)
9	ZTF228-P	1	1/2" DRIVE COUPLING (NO.3)
10	ZTF228-M	1	7/8" DRIVE COUPLING (NO. 3)
11	ZTF229	1	MOTOR SHIELD
12	ZTF252	1	1/2" HYDRAULIC PIPE NIPPLE
13	ZEPH122	1	1/2" RELIEF VALVE
14	ZTF249	1	3/4-16 FLARE TO 1/2" NPT ADAPTOR
15	ZTF259	1	1000 PSI PRESSURE GAUGE
16	ZTF248	1	3/4-16 ORB TO 3/4-16 37° FLARE TEE
17	ZTF213	1	HYDRAULIC PUMP
18	BHS381	2	3/8" X 1" HEX HEAD BOLT
19	P100	1	3/4"NPT TO 3/4" HOSE ADAPTOR
20	P149	2	1" STAINLESS HOSE CLAMPS
21	ZTF262	1	3/4" X 6 1/2" CLEAR HOSE
22	ZTF261	1	7/8-14 ORB TO 3/4" NPT ADAPTOR
23	ZTF232	1	1" PIPE TO 3/4" HOSE ELBOW
24	ZTF220	1	3/8" X 17-1/2" HYDRAULIC HOSE
25	ZTF226	2	3/8" X 6' HYDRAULIC HOSE
26	ZTF218	1	3/4" NPT TO 3/4-16 37° FLARE ADAPTOR
27	ZTF250	1	1/2" TO 1/4" HEX BUSHING
28	ZTF221	1	3/4" NPT TO 3/8" NPT BUSHING



FEED SCRAPER ASSEMBLY
ZTF 241

ITEM	PART NO.	QUANTITY	DESCRIPTION
1	ZTF104	1	RAIL HANGER
2	ZTF242	1	SCRAPER FRAME
3	ZTF243	1	SCRAPER BLADE
4	1BUB516114	2	5/16" U-BOLTS