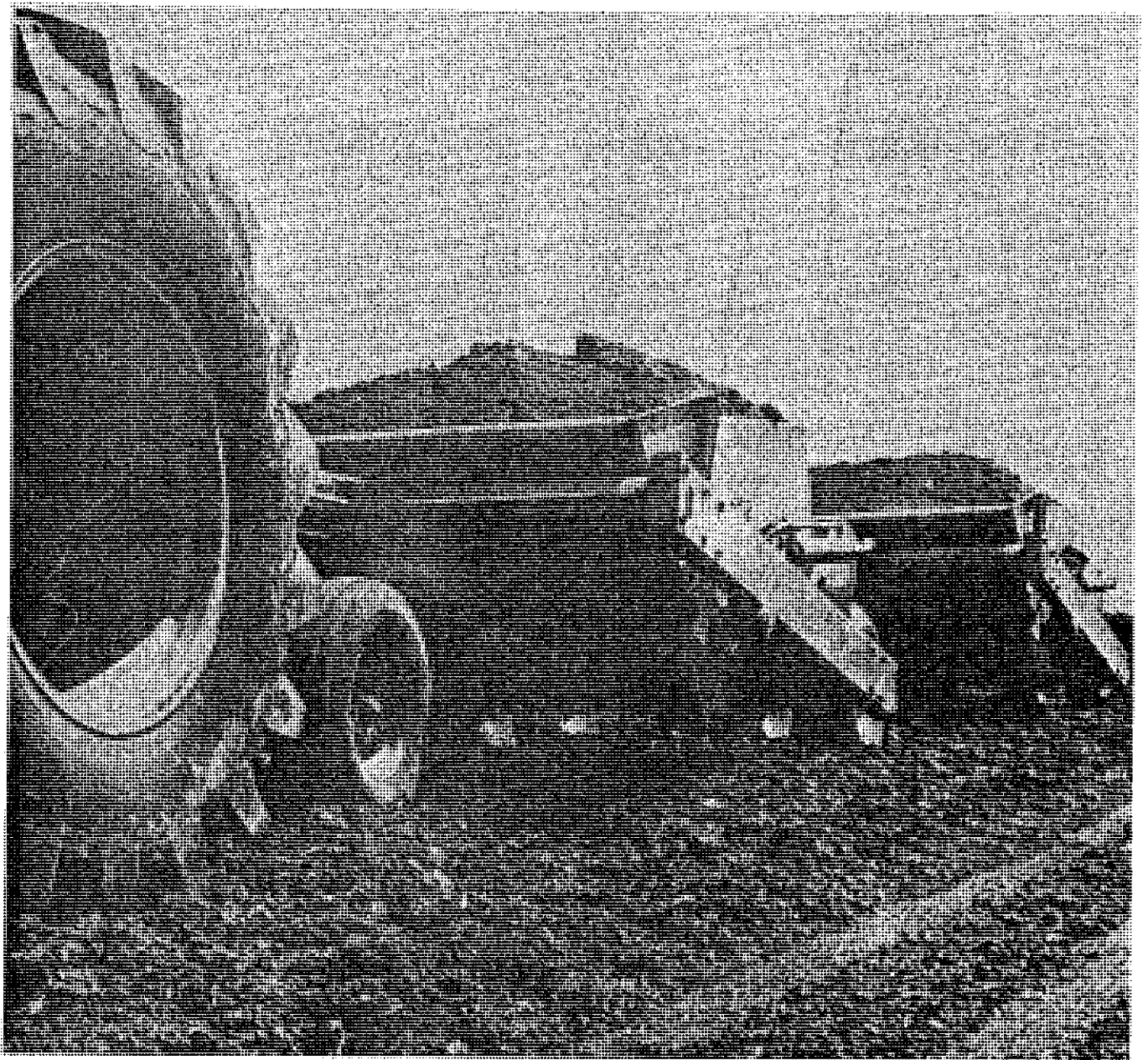


ASSEMBLY AND OPERATION INSTRUCTIONS

Eversman **SCRAPER**

MODELS 600SD AND 600SDT



THE EVERSMAN MANUFACTURING COMPANY

FIFTH STREET AT CURTIS • DENVER, COLORADO 80204 • (303) 629-1234

ASSEMBLY INSTRUCTIONS—MODELS 600SD & 600SDT SCRAPER

Figure A

1. Set 042901 bucket on 4 x 4 wood blocks before starting assembly.
 2. The 042801 gate is assembled to bucket with 042808 gate pins and 064596 lock nuts on inside of bucket.
 3. Before assembling 041201 lift pipe to bucket, note that the pin to make this attachment is welded to the cover plate (041219). First slip bearing insert 022050 over this pin and attach to bucket with 064596 lock nut, however, do not install the two, $\frac{1}{2}$ x $1\frac{1}{4}$ carriage bolts which attach the cover plate to bucket. Then slide lift pipe in place over bearing inserts and attach with 041217 caps. The cap bolts can be tightened by slightly rotating the cover plate. Then install the $\frac{1}{2}$ x $1\frac{1}{4}$ cover plate bolts.
- NOTE:* It is easy to forget to thoroughly tighten the 064596 lock nuts on the inside of the bucket, and they are frequently found to be loose during field operation. Check these and tighten with long handled wrench.
4. The gate spacers, 042809, are attached to gate with $\frac{1}{2}$ x 2" bolts. These two spacers permit maximum opening of gate. If working in trash-free field, reverse spacer(s) for improved operation.
 5. Install zerk on gate arms.

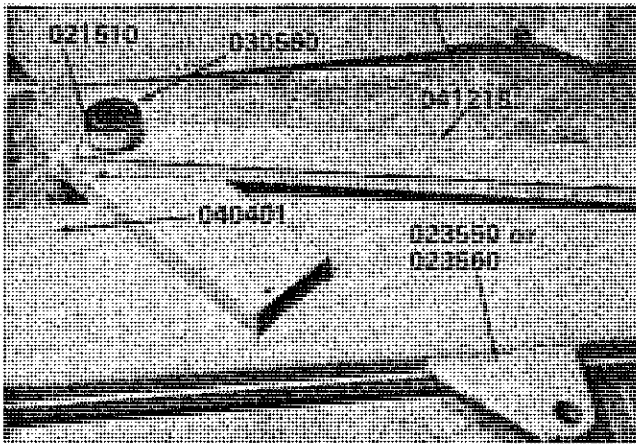
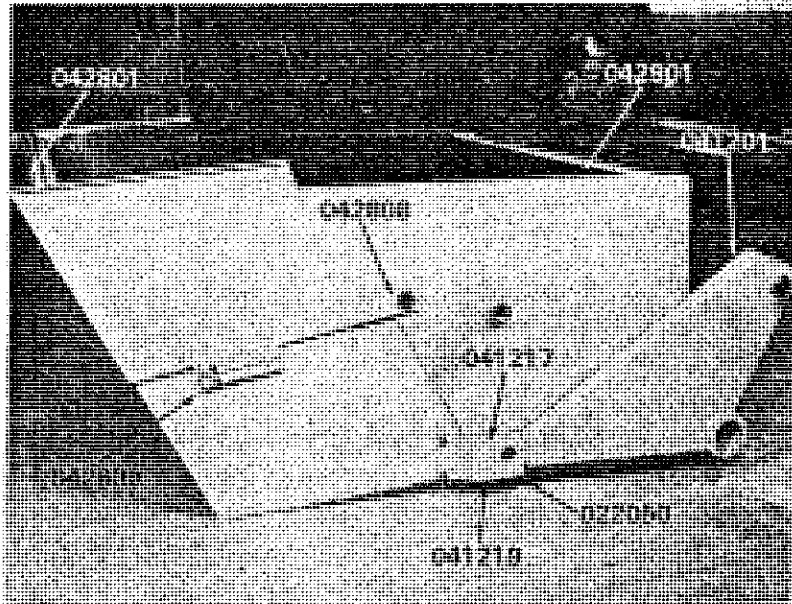


Figure B

1. Lay siderails along side of bucket. This is a L.H. rail (040401) shown in Figure B.
2. Attach 041218 control link to siderail with zerk fitting up, using 021510 snap ring.
3. Slide roller, 030560, on pin. Note – There is *no snap ring* used with this roller since gate will keep it in place.

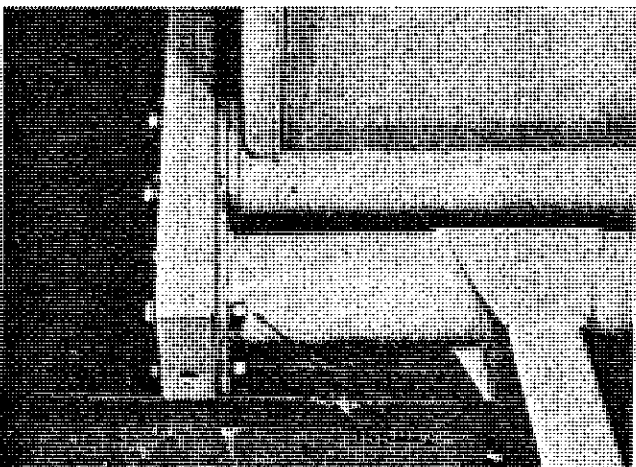


Figure D

This picture shows details of all pieces in place on the siderail to rear frame and lift pipe assembly.

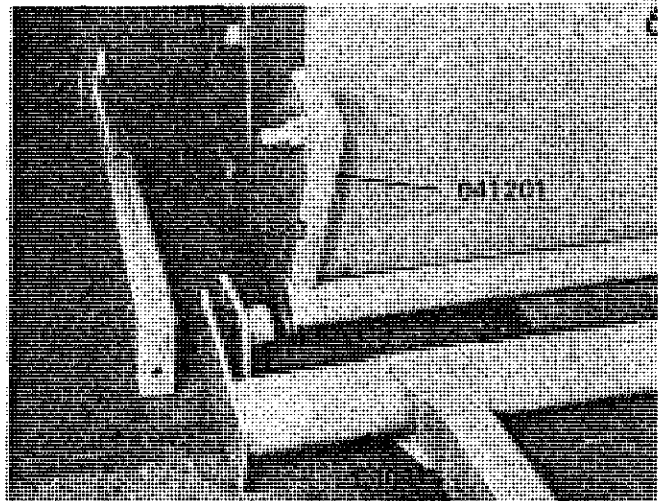


Figure C

1. Before starting assembly, note from Figure E that the *welded* arms on 040415 rear frame are *tilted upward*. If you assemble the rear frame with the arms slanted down, it will be impossible to get scraper bit low enough to cut.
2. Place 041223 pivot bearings in ends of lift pipe, 041201. The holes in these bearings are tapped so nuts are not required.
3. Since three pieces – siderail, bearing and rear frame – must all be perfectly aligned at this connection, it has been found that several steps of partial assembly will save time and reduce the difficulty of alignment.
 - a) First be sure the bucket *and* rear frame are on blocks and level. Then bolt rear frame to collars on both sides *without siderails*. You will have less trouble aligning the holes by leaving the siderails off.
 - b) Use 057442, $\frac{3}{8}$ x 5 hi-strength, plated bolts and run them just barely through bearing collar.
 - c) Then remove the four bolts from one side only, and attach siderail to frame and collar. *Do not tighten these bolts* at this stage.
 - d) Then remove the four bolts from the other side and attach the other siderail to frame and collar. Also *do not* tighten these bolts thoroughly.
 - e) Use $\frac{3}{8}$ x 5, hex head machine bolts (055442) to attach rear of siderails to frame. Also *leave these bolts loose*.
4. Install zerk fittings on lift pipe and fill with grease.

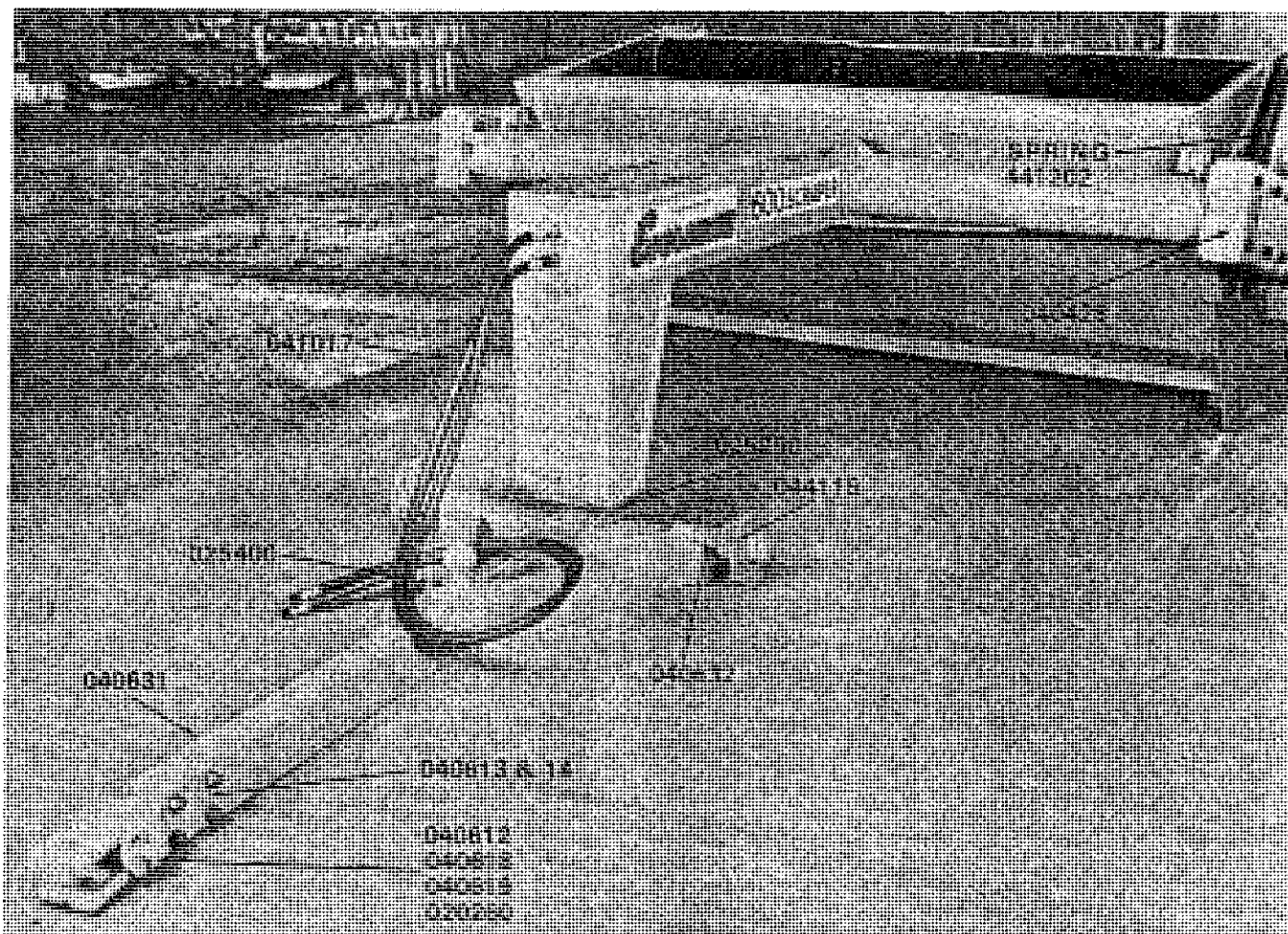


Figure J

1. Install 88" (041017) hoses on oil pipes of front gooseneck. (If cushion valve is to be installed, see Figure N.)
2. Assemble 040631 dolly tongue to gooseneck with 025250 ball keeper plates and $\frac{3}{4}$ x 1 $\frac{3}{4}$ cap screws. The plates *must* have machined surfaces against the ball and the crack between plates is on the left and right hand sides.
3. Install gooseneck on rear ball of dolly tongue. The front ball should be used only if you are working in difficult conditions and with limited traction, where additional weight on the tractor rear wheels would assist loading. In this case, it will probably be nec-

essary to add weights on front of the tractor.

4. Insert simultaneously, 040612 swivel clevis, 040613 L.H. pivot block (tapped for grease fitting) and 040614 R.H. pivot block into tongue. The tapped casting must be matched to the 5-hole channel. Secure assembly with four, 055334, $\frac{1}{2}$ x 4 hex head machine bolts. Install zerk fitting.
5. Assemble 040618 hitch clevis and 040619 spacer with 020260 clevis pin and 708600 hair pin.
6. Attach 040428 cover plates to front of siderails. If bolts were installed with nuts outboard, as noted previously, it will not be necessary to remove the two front bolts from the siderail.

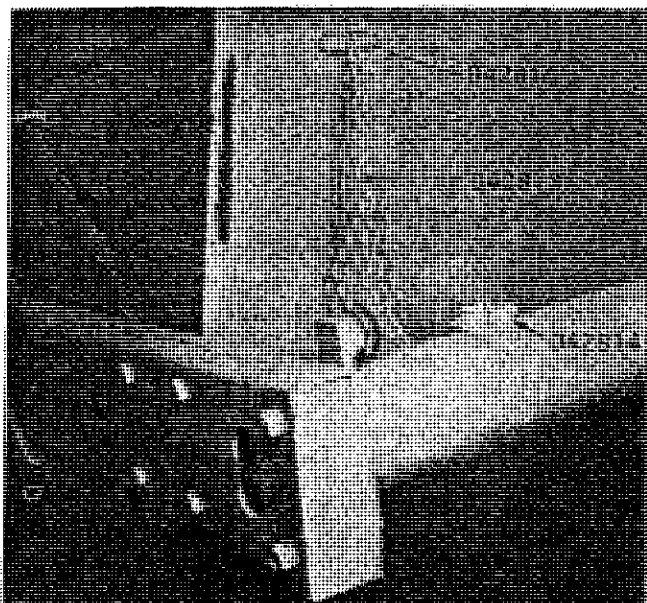


Figure K – Gate Limit Chain

1. Attach 441202 springs from siderail anchors to pins on gate.
2. Assemble 042813 gate limit chains to sleeves with $\frac{1}{2}$ x 3 $\frac{3}{8}$ hex bolts, lock washers and hex nuts.
3. These chains limit the upward movement of the gate if excess trash and dirt accumulate under the gate. Under some conditions, this can produce excessive spring stretch and breakage. The gate limit chain was first installed on Serial No. 1781 Scraper in April, 1967. For scrapers under that serial number, order Kit No. 044105, if owner is experiencing spring breakage.

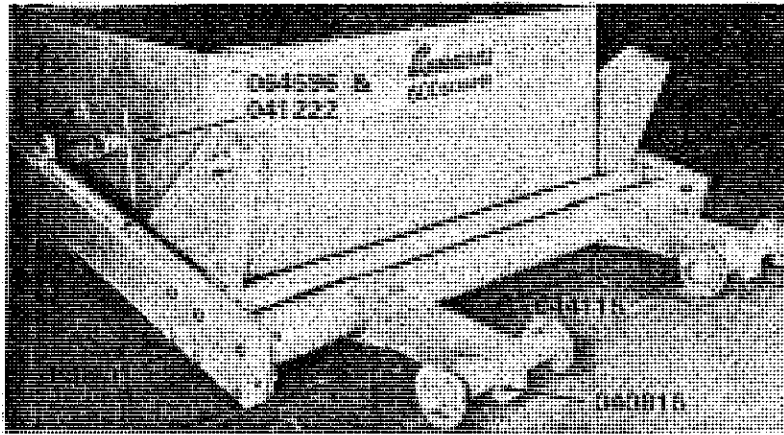


Figure E

1. The 040815 rear spindles and 044115 hubs are factory assembled on the rear frame.
2. Note that the rear spindles can be adjusted at $\frac{3}{8}$ " intervals to level up the bucket if necessary. If the same size tires are on all four rear hubs; if the tire pressure is the same; and if the scraper is properly assembled, a leveling adjustment should not be necessary.

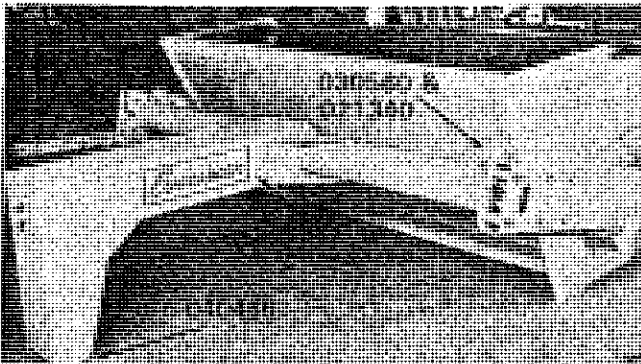


Figure F (Do not remove caps from oil lines in gooseneck yet – see Figure G.)

1. Assemble 040435 gooseneck to siderails with the forward two bolts installed with the nuts *outboard*. Six, $\frac{3}{4}$ x 5" hex head machine bolts are used at this joint. *Do not tighten these bolts at this time.*
2. The 030560 rollers and 021340 snap rings are factory assembled.

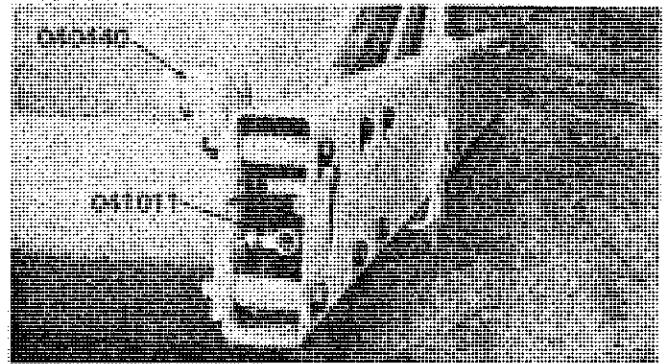


Figure G

1. Now remove caps from oil lines.
2. Install 041011, 90° swivel fittings, by working through hole in siderail and from open end. You will need two, thin, open-end, 1" wrenches for this assembly.
3. Note – The body of the swivel fittings *must* go on the oil pipes and the *swivel* portion to the cylinder hoses. The swivel joint will be ruined if attached to the oil pipes.

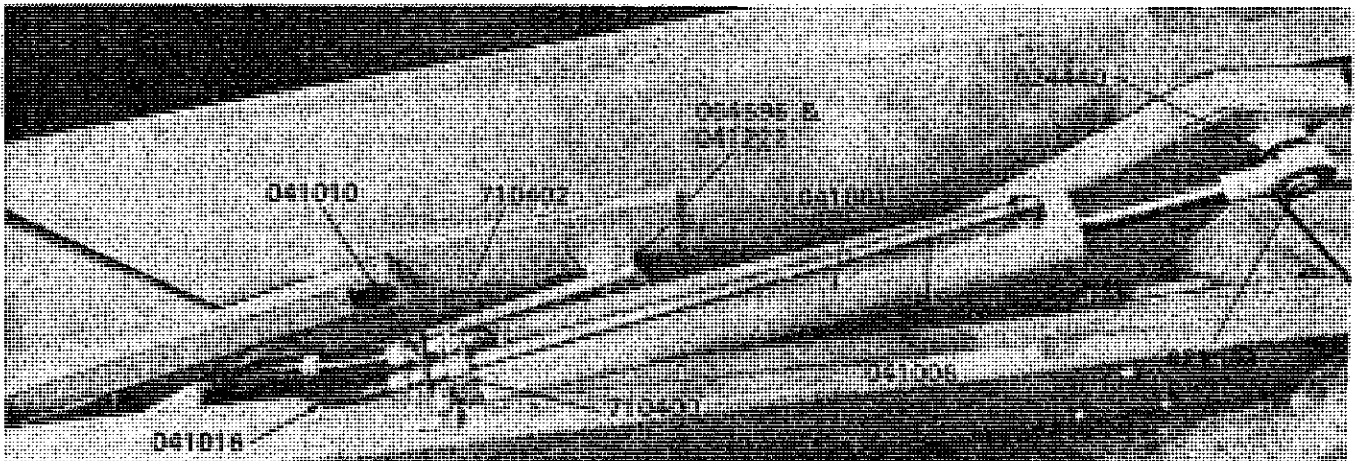


Figure H (Note – The lift pipe can be *twisted* if these instructions are not followed carefully.)

1. Install 041222 link pin through the 041218 control link and bucket. Secure with 064596 lock nut.
2. Assemble 041001 cylinder assembly to lift pipe with 021880 snap ring and to siderail with 701026 pin and cotter.
3. Install 90° street ell in front cylinder port with 710402, male-female, swivel fitting. The body, fixed portion, of fitting goes on street ell and the *swivel end on hose*.
4. Install oil pipe 041006 to rear cylinder port with street ell and attach 710400 female-female swivel fitting at front of oil pipe. The body, fixed portion, of fitting goes on the pipe and the swivel end on the hose. Note – Forward end of pipe is outboard of street ell.
5. The 041010 hose clip keeps the cylinder pipe in place.

6. *Before installing hoses – reflect a moment!!!*

7. Feed the hoses into the siderails from the cylinder end, down through the open channel welded to the siderails, and out the open front end of the siderails. Each pair of the 041016, 57" hoses are taped together. *One* of these has a yellow painted band at both ends. Attach the yellow band hoses on *both cylinders* to the front port (90° street ell) and to the *top oil line* in the gooseneck.

The hoses from the cylinder to the oil lines must be *exactly* the same on both sides, or the lift pipe can be twisted by working the cylinders against each other.

The plain black hoses are then attached to the pipes from the cylinder *rear ports* and to the *bottom oil lines* in the gooseneck on *both sides* of the scraper.

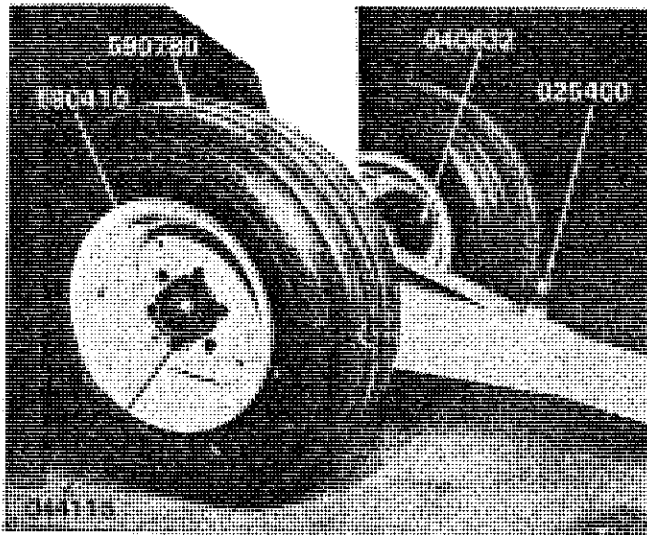


Figure L – Wheel and Tire Installation

1. Connect front hoses to tractor and lift scraper on bucket.
2. Now install front and rear wheels and tires. On 600 scrapers, 15 x 8 wheels, 590410, are shipped as standard equipment. If desired, 14 x 8 wheels, 590360, may be specified at no additional cost. We recommend that 8-ply, 9:50 x 15 or 9:50 x 14 tires be installed and inflated to 50 PSI. **Be certain to mount all wheels on the hubs with the concave side of the wheel against the hub face and the valve stem hole on the wheel to the outside. It is possible to mount the wheels incorrectly, which will over-load, and cause failure, to the spindle, hub or wheel.**
3. Several design changes have been made on the spindles, hubs and wheels. To insure ordering correct parts, consult parts list.

SPECIAL NOTES

IMPORTANT – FOLLOW THESE INSTRUCTIONS CAREFULLY.

Referring back to instructions C-3 and F-1, the bolts at the four corners of the siderails must now be *thoroughly tightened* as follows:

- a) While the bolts are still loose, center the bucket and gate in the middle of the frame, so there is *equal clearance on both sides*.
- b) Run the bucket through several cycles slowly, from full dump position to full cut.
- c) Check to be certain the bucket and gate are still centered. (There is sufficient tolerance in the bolted connections to actually throw the bucket or gate far enough off center to cause interference.)
- d) Then *thoroughly tighten* all corner bolts, progressively, as you move around the scraper. If bolts at one corner are completely tightened before moving to the next corner, it is possible to pull the frame out of line. Hence, tighten each bolt several turns, and then move on to the next, continuing until all are tight.
- e) Be certain all zerks are well lubricated. Check hydraulic oil reservoir in tractor after cylinder hoses and oil lines are full.
- f) In order to lift the 600 bucket to dump with a full load, the tractor hydraulic system *must* develop at least 1200 PSI, preferably 1500 PSI. This is no problem on recent wheel tractors, however, older models of wheel tractors and crawlers may be insufficient. This is especially true of crawlers with Be-Ge pumps which have a working pressure of only 850 PSI.

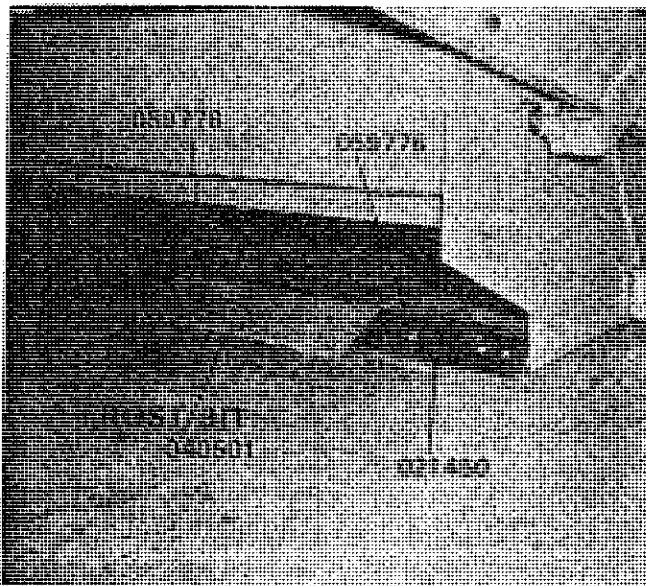


Figure M

After tires are installed, put bucket in full dump position. Then assemble 021450 cutting bit with eleven, 059776, $\frac{1}{2}$ x $1\frac{1}{4}$ " plow bolts. If working hard ground, or with marginal tractor power, install, 040501, frost bit with five, 059778, $\frac{1}{2}$ x $1\frac{1}{4}$ " plow bolts. Note that the bit is assembled to the bucket with the *beveled* side *down*. The countersunk hole is on the *top*, of flat side, of the bit.

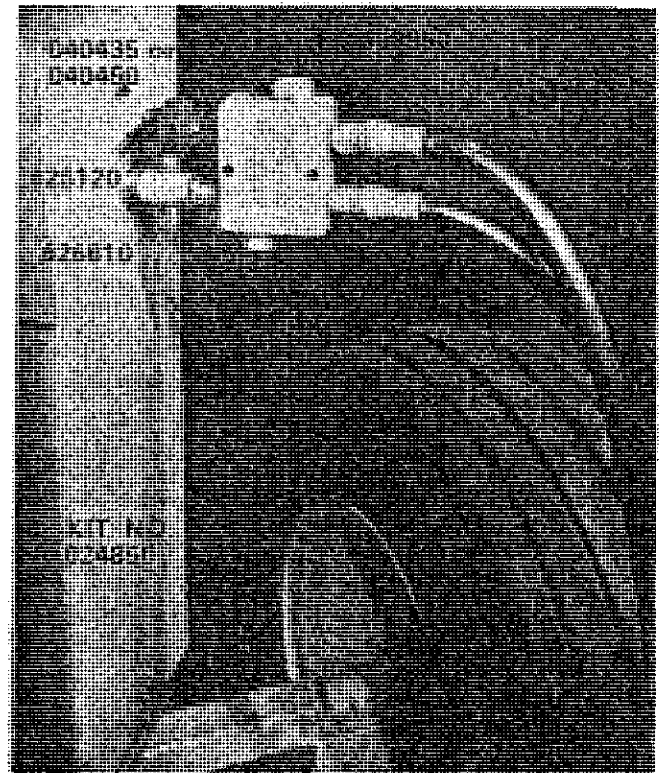


Figure N – Cushion Valve Installation

1. Note in Figure N the installation of the 024850, optional, cushion valve kit. This valve is recommended for tractors which develop hydraulic pressure in excess of 1500 PSI.
2. The cushion valve kit is installed on trailing scraper of the tandem units in the same way.
3. For 600 scrapers under Serial No. 2027, refer to Figure Q for installation of the 044009 cushion valve kit.

Figures P and Q – MODEL 600SDT – TANDEM SCRAPER

1. The tandem scraper, Model 600SDT, is the front unit of the pair. All parts and specifications are the same as the Model 600SD Scraper, except for the rear frame, the gooseneck and the hydraulic components.
2. Assemble the tandem rear frame (040420) to the lift pipe and siderails exactly the same as shown in *Figure C*.
3. The 040450 gooseneck assembly is attached to the siderails in the same way as shown in *Figure F*. The fore and aft oil pipes are welded to the gooseneck prior to shipping.
4. Insert the 108" pipes (041008) in siderails and attach 041009 oil pipes. Connect 88" hoses (041017) to front of welded oil pipes.
5. At rear of scraper, connect 9½" oil pipes (041013) to 041008 pipe, and to both ends of 041014 pipes.
6. Attach to center bracket of rear frame with 413100 pipe clip and install 710700 couplers.

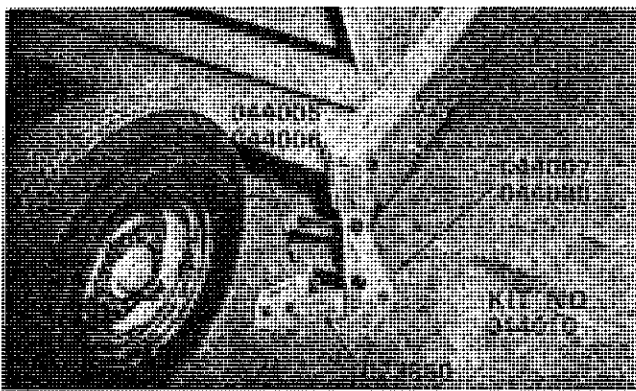
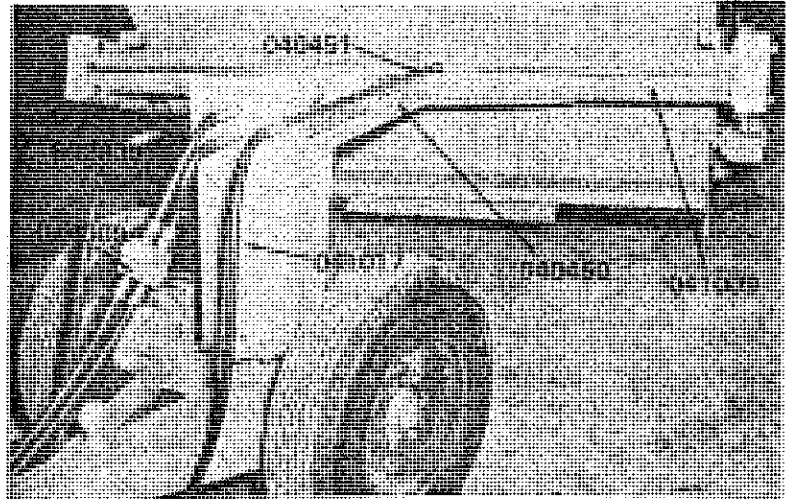
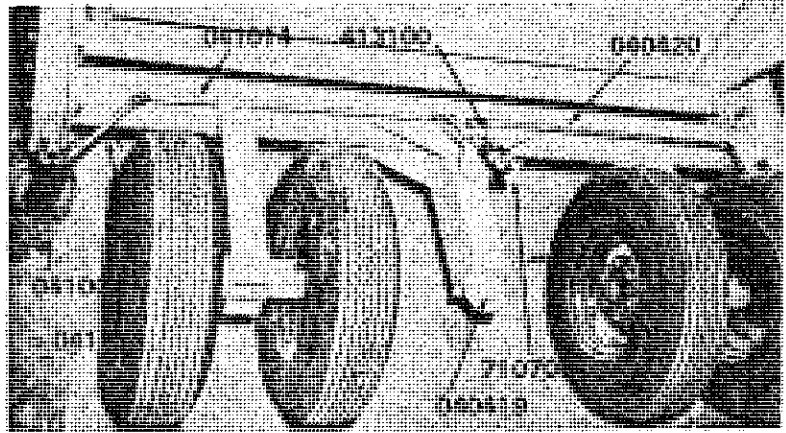


Figure R – Trenching Kit Installation

1. See Figure R for proper installation of trenching kit on rear of siderails.
2. Replace regular siderail bolts with 057450, ¾ x 6 machine bolts when trenching kits are installed.

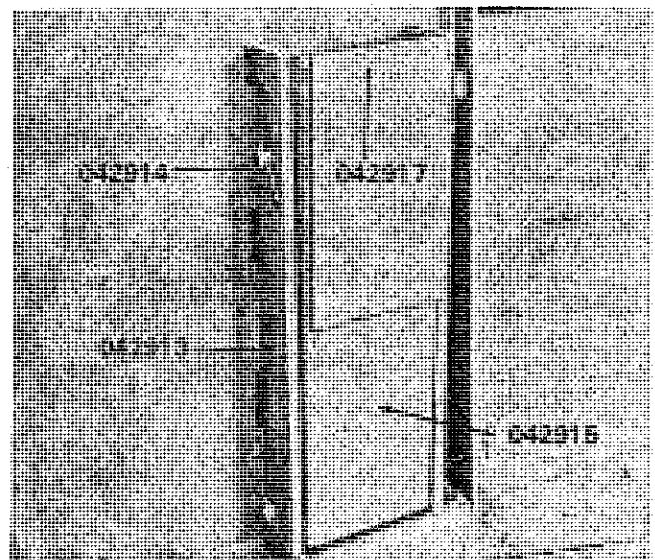


Figure S – Stabilizer Assembly

Figure S shows installation of the stabilizer assembly under the bucket and immediately behind the cutting bit. These are factory assembled on the buckets before shipping. The purpose of these stabilizers is to prevent side-to-side wobble during cutting. They should be set only *low* enough to accomplish a smooth cut – depending on the soil conditions. If they are set too low, below the bottom of the bucket, they will impair the cutting ability of the bit. In heavy soils, they should run almost flat; in average soils, about 1" below the support bars; and in loose or sandy soils, they must be set in the most forward holes so they will run *deeper* in the ground to stabilize the cut. When the wear plate (042917) is worn, torch off and replace.

OPERATING INSTRUCTIONS

The Eversman Scraper will work under a very wide variety of soil and moisture conditions, however, dirt moving is primarily a dry soil operation. If the soil sticks to the wheels and builds up excessively, it is too wet to work. Excessive slippage, unnecessary power consumption, and over compaction of the fill areas may result. The questions of top soil removal, proper finished grade and balancing out your cuts and fills can be answered by your local, state, or federal technicians if you are in doubt.

It does not require any special skill or training to operate the Eversman Scraper. However, a little experience plus good management can help get the job done more quickly. The TOTAL YARDS MOVED PER HOUR depend on:

- (1) *Having a Definite Planned Program* and following it.
- (2) *The Average Load Size.*
- (3) *The Hauling Distance.*
- (4) *The Speed of Operations* (or total time per cycle).
- (5) *The amount of Lost Time* from interruptions, unnecessary stops, etc.

It will pay in time and fuel saved to lay out a definite program before you start your project, especially on field leveling or terracing. Some suggestions on planning "cut-haul-fill" patterns are covered below under "Field Grading."

Loading

The size of your loads will depend on: (1) the tractor power and traction; (2) the soil conditions; and (3) your operating skill and procedure. Your average load size can usually be increased with practice. While the Eversman 600SD and 600SDT models can each be heaped to a 6-yard capacity, in general, more yards per hour can be moved by taking the largest load you can pick up quickly, then hauling, unloading, and returning as fast as you can safely.

Under some conditions (like loading sand) speed may help in heaping the load; while in others, power is more often a factor. Generally, it is preferable to make *Long, Thin, Smooth Cuts* and *Keep the Tractor Moving*. It is better for succeeding loads to keep the cut area relatively smooth.

Normally, the *Best Gear for Loading* is the highest gear in which the tractor will spin the wheels before stalling the engine. When possible, make the cut in the same direction as you haul to save time and avoid turning with a full load. Start to make your cut as you approach a slight ridge, or high spot. It requires power to take the dirt back, and up, in the bucket, which can best be supplied by cutting into the ridge.

Hauling

If the field or work area is rough or the distance to haul is rather long, it will be worthwhile to make a *Smooth Hauling Lane* and possibly a separate return path so that you can haul and return in a high gear. (For route patterns, see Field Grading.)

As you are leaving the loading area, raise the load to the hauling position.

Spreading and Dumping

A single-control valve on the tractor operates both the bucket and the gate. The gate of the Eversman Scraper opens automatically, as the bucket is actuated backward and upward toward a near vertical position. The bucket can be stopped at any point to vary the thickness of the spread soil.

A compromise was made on the design specifications of the Eversman, whereby the range on the thin side of the spreading was reduced in order to both (1) provide

greater transport clearance; and, (2) to reduce the initial cost by eliminating the need for a second control valve on the tractor, and a separate hydraulic cylinder to regulate the opening and closing of the gate. In dry, light soils, the bucket will start to dump as soon as the gate opens. However, in heavier and damp, sticky soils, the bucket must be rotated further back before the load starts to dump. This might result in a thicker, more concentrated spreading than desired. The soil, however, can be distributed over a wider area, in a thinner layer, by crossing the fill on a succeeding trip, with the bucket in its lowest position. The best way to actually distribute the soil over the fill area is with a land smoother, after all dirt moving is completed.

When dumping, it is recommended that the highest possible speed be maintained through the fill area, and that the bucket be *gradually opened*, rather than to open it quickly by moving the control valve handle rapidly from the hauling position to the full dump position.

Field Grading

It will pay to determine, before you start operations, the areas to be cut and filled, the depth of each cut and fill, and the best haul-route pattern. It is cheaper to haul in two directions from the same cut, if possible. There are, in general, three "cut-haul-fill" patterns. Sometimes they can be combined at a definite saving.

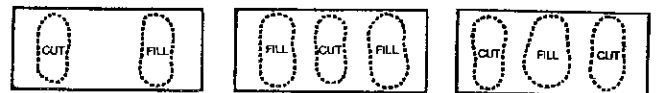


Figure A

Figure B

Figure C

If you can work the plan shown in Fig. B or C, rather than A, it will save travel and turning time. It may be possible to reduce empty travel time by combining several cuts, hauls and fills on the field in one overall or continuous circuit.

Pit Silo and Trench Construction

In order to keep the banks vertical, install the optional trenching bits (Kit No. 044010) under the side frame rails (Refer Fig. R). Make cuts downhill, and take long, thin cuts to keep the bottom of the trench as smooth as possible.

Field Finishing

After completing your dirt moving work, you still must finish your field by smoothing, especially the cut and fill areas. A few times over the field with an Eversman Land Smoother will wipe out the rough spots and surface irregularities.

AFTER EXTENSIVE EARTH MOVING and land forming, you should consider the need to: (a) use a subsoiler or pan breaker if moisture conditions and heavy traffic have caused excessive compaction; (b) apply proper fertilizer to the cut areas; (c) plant an annual crop the first season while permitting the fill areas to settle; (d) recheck the grades and correct any settlement by again leveling before planting a perennial crop; (e) maintain the correct surface (and produce a good seedbed) by always using a land smoother ahead of your seeder. It takes time, money and effort to establish correct grades on your fields. Erosion and tillage operations cause surface irregularities. To protect your investment, keep the surface smooth and maintain correct grades by using an Eversman Land Leveler.

Rocky or Gravel Soil Operations

If using the scraper in soil containing small rocks or gravel, or in extremely dry, hard ground, and if sufficient power is available to completely heap the bucket, spillage over the sides of the bucket can result in damage to the hoses and hydraulic cylinders. Install a Rock Shield Kit, No. 044015, to protect the cylinders.

MODEL 600-SD SCRAPER PARTS INFORMATION

Since this model is no longer in production, special attention must be paid to the following notes. Some of the current Model 650 parts are interchangeable, while others can be used with modifications.

- (a) The 041201 lift pipe is not available. Order 041236 lift pipe. A sketch will be furnished with instructions to relocate cylinder anchor castings on siderails. To replace a broken cylinder rod end pin on the lift pipe, order Kit No. 044113.
- (b) The 040401 and 040402 siderails are not available. They can be furnished on special order, however, shipment would be delayed. If possible, repair any damage locally.
- (c) The 040415 rear frame is available, however, it would be necessary to install current spindles and hubs (Kit No. 044118).
- (d) For serial numbers up to 2252, order Kit No. 044118 to replace both rear spindles and hubs, since older parts are no longer available.
- (e) The 040435 gooseneck is no longer available. Order 650 gooseneck, 040493, and use external hoses, instead of internal piping, as shown in figure on page 20 of the 650 manual. With this gooseneck, 2 - 040500 siderail closure angles must be welded to the front end of the siderails. A sketch will be furnished to correctly locate these angles.
- (f) For serial numbers up to 2252, order Kit No. 044121, to replace both dolly spindles and hubs, since older parts are no longer available.
- (g) Worn bucket pivot plates and tubes can be replaced by torching off the old plates and ordering Kit No. 044127.
- (h) If the gate limit chain is not installed on scrapers under serial number 1781, order Gate Limit Repair Kit #044105. This chain prevents the gate from over-traveling and stretching the gate springs.
- (i) The 6" Rim Wheels, 590950 (14") and 590900 (15") shipped on scrapers through serial number 2251, will fit the new 044115 hubs. However, if wheel breakage has occurred, it is recommended that 8" rim wheels, 590410 (15") also be ordered when new spindles and hubs are installed.

MODEL 600SD SCRAPER - PARTS LIST

Fig. No.	Part No.	Description	Serial No.	No. Req.
A	042901 (g)	Bucket	All	1
A	042801	Gate	"	1
A	042808	Gate Pivot Pin	"	2
A	064596	Locknut	"	2
A	041201 (a)	Lift Pipe	"	1
A	022050	Bucket Bearing Insert	"	2
A	041219	Bucket Pin	"	2
A	041217	Bearing Cap	"	2
A	042809	Gate Spacer	"	4
B	040401 (b)	L.H. Siderail	"	1
B	040402 (b)	R.H. Siderail	"	1
B	041218	Control Link	"	2
B	021510	Snapring	"	2
B	030560	Bucket Roller	"	2
B	023550	L.H. Cylinder Anchor Casting	"	1
B	023560	R.H. Cylinder Anchor Casting	"	1
C	040415 (c)	Rear Frame	"	1
C	041223	Lift Pipe Bearing	"	2
D	055442	3/4 X 5 Plated Hex Screws	"	4
D	057442	3/4 X 5 Hi-Strength Screws	"	12
E,H	041222	Bucket Pivot Pin	"	2
E,H	064596	Locknut	"	2
E	040815 (d)	Rear Spindle	2252	2
E,J	044115 (d)	Hub Assembly (Q-817)	2252	4
-	040820	Hub Casting, with Cups	"	-
-	030620	7/8 Flat Washer	"	-
-	062567	7/8 Slotted Nut	"	-
-	063734	5/32 X 1-1/2 Cotter	"	-
-	628305	Pipe Plug	"	-
-	007009	Lug Bolt	"	-
-	044116	Hub Repair Kit - Consisting of:	"	-
-	040823	Inner Cup (25520)	-	-
-	040827	Inner Cone (25590)	-	-
-	040832	Seal (Victor 46386-M2)	-	-
-	040825	Outer Cup (25821)	-	-
-	040829	Outer Cone (25877)	-	-
-	040831	Hub Cap	-	-
F,J	040435 (e)	Gooseneck	All	1
-	025370	Ball Socket Casting	"	1
F	021340	Snapring	"	2
F	030560	Bucket Roller	"	2
G	040440	Roller Pin Weldment	"	2
G	041011	90 Deg. Swivel Fitting	"	2

MODEL 600SD SCRAPER - PARTS LIST (Cont'd)

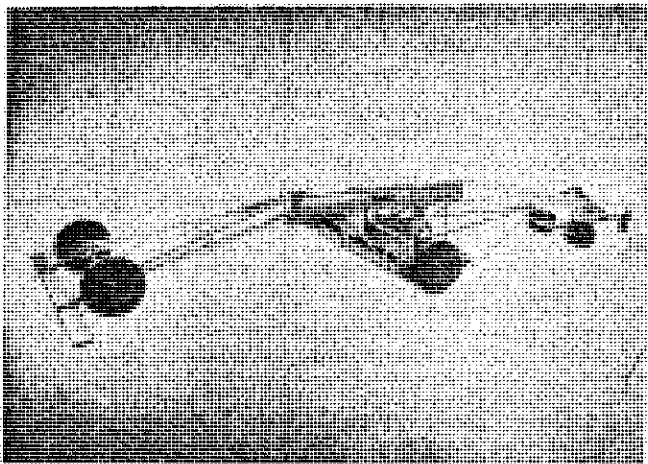
Fig. No.	Part No.	Description	Serial No.	No. Req.
H	041222	Bucket Pivot Pin	All	2
H	064596	Locknut	"	2
H	041016	57" Hose (3500 PSI)	"	4
H	041010	Hose Clip	"	2
H	710400	Female-Female Swivel Adaptor	"	2
H	710402	Male-Female Swivel Adaptor	"	2
H	021880	Snapring	"	2
H	041006	27" Pipe	"	2
H	041001	Cylinder Assembly - 24" Stroke	"	2
-	041002	Barrel	"	-
-	041004	Piston Rod	"	-
-	401043	Piston	"	-
-	401040	Piston Rod Nut	"	-
-	024340	Rod Guide	"	-
-	401008	Snapring	"	-
-	060403	Set Screw	"	-
-	701026	Clevis Pin	"	-
-	063762	1/4 X 1-1/2 Cotter	"	-
-	041040	Cylinder Repair Kit - Consisting of:	"	-
-	024360	Oil Seal (Guide Wiper)	-	1
-	024370	O-Ring (Guide Inner)	-	1
-	024380	Backup Washer (Guide Inner)	-	1
-	030460	Backup Washer (Guide Outer)	-	1
-	401004	O-Ring (Guide Outer)	-	1
-	024350	U-Cup (Guide Inner)	-	1
-	041033	Piston Seal	-	2
H	024440	Ball Joint Weldment	All	-
J	040428	Siderail Cover Plate	All	2
J	041017	88" Hose (3500 PSI)	"	2
J	025251	Ball Keeper Plate	"	1
-	055416	3/4 X 1-3/4 Cap Screw	"	4
J	040631	Dolly Tongue	"	1
J,L	024500	Ball Hitch	"	2
E,J	044115 (f)	Hub Assembly	"	2
J,L	040632 (f)	Dolly Spindle	"	2
J	040612	Swivel Clevis - Wheel Tractor	"	1
J	040613	L.H. Hitch Block	"	1
J	040614	R.H. Hitch Block	"	1
-	055334	3/8 X 4 Hex Bolt	"	4
J	040627	Hitch Clevis	"	1
J	040619	Clevis Spacer	"	1
J	020260	Clevis Pin	"	1
J1	063839	Hairpin	"	1
-	706800	Swivel Clevis Crawler Tractor (Optional)	"	1
K	441202	Spring, 55 Coils	All	2
K	302130	Gate Limit Chain	"	1
K	042814	Chain Sleeve	"	4
-	055230	1/2 X 3-1/2 Hex Bolt	"	2

MODEL 600SD SCRAPER - PARTS LIST (Cont'd)

Fig. No.	Part No.	Description	Serial No.	No. Req.
L	590410 (i)	15" Wheel	All	6
L	590360	14" Wheel (Optional)	"	-
L	590780	9:50 X 15 Tire & Tube (Opt.)	"	6
-	590781	Tire Only	-	-
-	590782	Tube Only	-	-
E,L	044115 (f)	Hub Assembly (See Parts Fig. E)	-	-
J,L	040632 (f)	Dolly Spindle	All	2
J,L	025400	Ball Hitch	"	2
M	021450	Reversible Cutting Bit	All	1
-	059776	1/2 X 1-1/4 Plow Bolt	"	6
M	040501	Frost Bit	"	1
-	059778	1/2 X 1-3/4 Plow Bolt	"	5
N	041018	Cushion Valve Kit (Optional)	All	1
N	609550	Gresen Valve, DLV-50	-	1
-	610221	Ball	-	2
-	609575	Guide	-	2
-	609580	Washer	-	2
-	609570	Spring	-	2
-	609560	Spring Cap O-Ring	-	2
-	609555	Spring Cap	-	2
N	626605	1/2 X 1-1/8 Nipple	-	2
N	626610	1/2 X 1-1/2 Nipple	-	1
N	625120	1/2 X 1/2 Union	-	2
P	040420	Tandem Rear Frame (Model 600SDT)	All	1
P	040419	Tandem Drawbar	"	1
P	041008	108" Oil Pipe	"	2
P	041013	9-1/2" Oil Pipe	"	4
P	041014	33-1/2" Oil Pipe	"	2
P	705800	Pipe Clip	"	1
P	710700	Quick Disconnect Coupler	"	2
Q	040450	Tandem Gooseneck (Model 600SDT)	"	1
Q	041009	37" Oil Pipe	"	2
Q	040451	46" Oil Pipe	"	2
R	044010	Trenching Kit (Optional)	All	2
R	044005	L.H. - Inner Bracket	"	1
R	044006	R.H. - Inner Bracket	"	1
R	044007	L.H. - Outer Bracket	"	1
R	044008	R.H. - Outer Bracket	"	1
R	023850	Bit	"	2
R	057450	3/4 X 6 Machine Bolt	"	4
R	051214	1/2 X 1-1/2 Carriage Bolt	"	6
S	042913	Stabilizer Bar	All	4
S	042914	Pin	"	4
S	063734	5/32 X 1-1/2 Cotter	"	8
S	042915	Stabilizer Channel	"	2
S	042917	Stabilizer Wear Plate	"	2

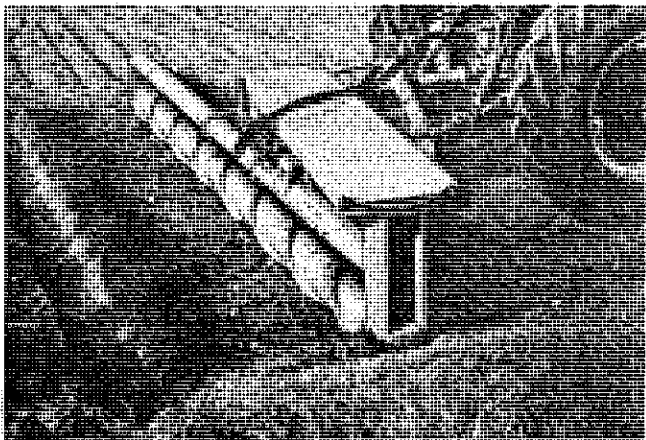
OTHER *Eversman* PRODUCTS

Eversman Manufacturing Company reserves the right to make any design changes it deems necessary without notice and without obligation to change any machines previously manufactured.

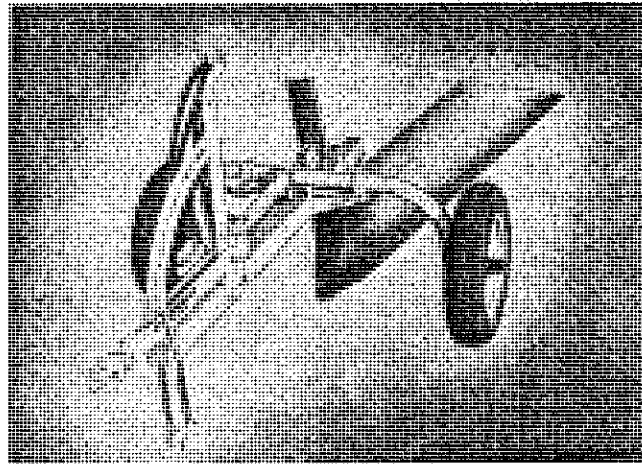


Cover 30% more ground with your regular 3-4 plow tractor and the Eversman *Model 3212* automatic land smoother—32 feet long, with a 12-foot wide cutting blade. Also available, the *Model 329*, 32 feet long, 9'3" blade—for 3-plow tractors, the *Model 410*, 40 feet long with a 10' blade for 4-plow tractors and the *Model 4012*, 40 feet long with a 12' blade for 4-5 plow tractors.

All models utilize the famous Eversman crank axle design for a fully automatic operation, and will do a complete job of land smoothing, dirt moving and seed bed preparation.

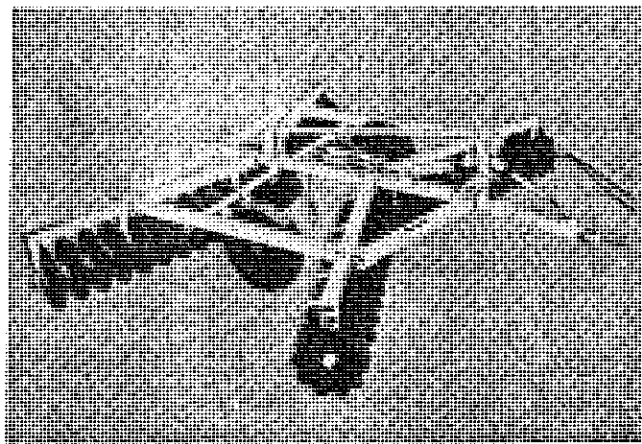


The new *Model 130* Headland Furrow Opener. Saves work and time and you can eliminate hand digging the 10 to 12 feet required to run water from the siphon tubes to the rows. Hydraulic control. Cutting length 13'2", depth of furrow 3" to 5", roter speed 250 RPM. Direction of rotation towards tractor. Swivel 37° both directions. Sealed, self-aligning ball bearings. P.T.O. drive. Mounts on standard 3 point hitch, category 1 or 2. Weight 800 lbs.



A modern Ditcher for building or cleaning ditches for either irrigation or drainage. Outstanding maneuverability and transportability features makes it possible for one man to do his ditching work fast and at low cost. Operated either mechanically or hydraulically with standard farm tractors.

Available in three models to fit all size ditches and farm tractors. A model is also available for tractors with standard 3-point hitch systems.



A Heavy Duty, Quality Tandem Disk Harrow. Welded boxed 4" channel construction, welded gang hangers, heavy duty scrapers, depth gauge, screw adjustment for easier, faster changes of front and rear angles of gangs, center ridge buster, heavy duty swivel clevis, rear hitch plate and many other features. Available in 8'8" to 14'6" cutting widths.

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