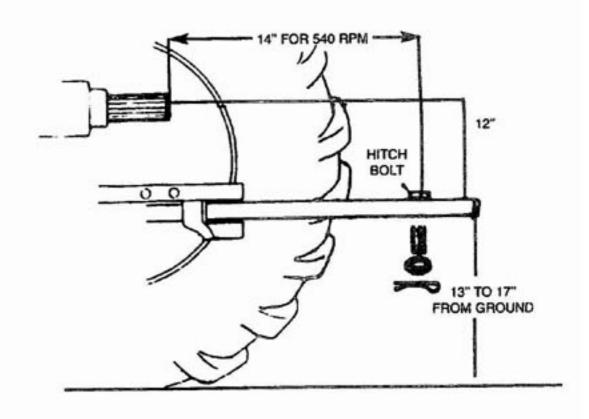
OPERATION

- Check for proper assembly and adjustment and make sure that all bolts are tightened. Securely retighten after a few hours of operation, as bolts can loosen up on new machinery. Check wheel bolts upon delivery and periodically thereafter. Wheel bolts should be tightened at 85-95 ft./lbs. of torque.
- Check the tires and inflate to the recommended pressure (10:00 x 22.5 tires to 40-60 pounds, 16.5 x 16.1 tires to 35-40 pounds).
- 3. Adjust the tractor hitch and attach the spreader to the tractor as described in the following sections.
- 4. Attach the speed control/beater engage and disengage rope to a convenient point on the tractor.
- 5. Lubricate the machine completely and check the oil level of gearbox.
- Before operation, run machine slowly to make sure that the spreader is operating and lubricated properly.

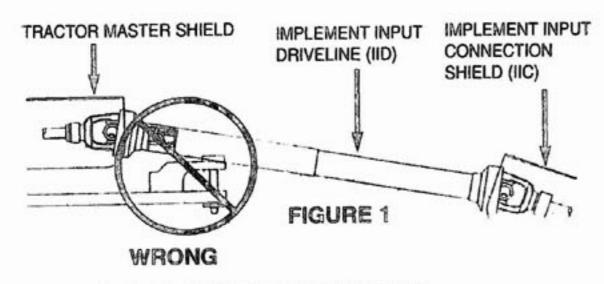
TRACTOR HITCH

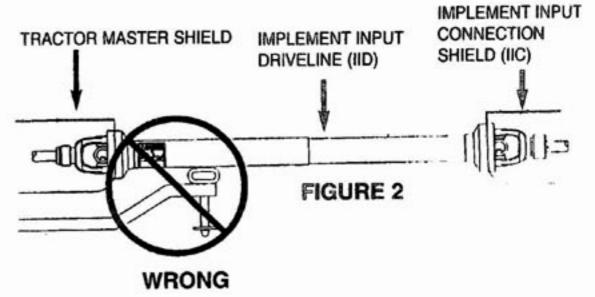
The hitch of the spreader is designed for a standardized tractor hitch. Adjust the drawbar so that it is 13 to 17 inches above the ground. Extend or shorten it so that the horizontal distance from the end of the tractor power takeoff shaft to the center of the hitch pin hole is 14 inches, as shown in drawing. Use an adapter plate, if necessary, to secure the proper distance. An improperly located hitch point may cause damage to the universal joints of the power takeoff. Secure the drawbar so that the hitch pin hole is directly below the power drive line.

If this implement is attached to a tractor with a clevis hitch (hammer-strap) style drawbar, the hammer-strap must be removed to prevent damage to the IID guarding and the IID telescoping members. [See Figure 1]



If this implement is attached to a tractor with an offset in the drawbar, be certain it is in the down position to prevent damage to the IID guarding and the IID telescoping members. [See Figure 2]





ATTACHING TO THE TRACTOR

 Fasten the spreader hitch to the drawbar with a hitch pin that cannot bounce out. Use 1" diameter hitch pin to pull spreader.

Remove the weight from the jack (jack is not to be used when spreader is loaded). Remove jack from
pipe mount and place on convenient storage mount located on top of left hitch channel. This allows
protection of jack from tractor tires during turns.

Slide spring loaded locking collar on PTO yoke rearward, and slide it onto the tractor PTO shaft.
Release spring loaded collar. Be sure the pins fall into the groove of the tractor PTO shaft and collar
snaps forward into locking position. CAUTION: Do not use a steel hammer to aid in joining PTO parts.

Be certain to disconnect all sources of power before servicing. Keep pant cuffs and other loose clothing away from all chain and gear drives as well as the other moving parts. Keep off the equipment when in use, and keep all safety shields in place. Do not attempt to clean, grease or lubricate while the machine is running. Never allow riders in or on the machine.

LOADING

In freezing weather, make certain that hydraulic tail gate (if equipped with one) is not frozen to the sides or on the floor of the spreader. Make sure the apron chain is not frozen to the spreader floor or any lumps of manure are frozen to the floor.

Begin loading the spreader at the front end and work toward the rear until loading is completed. Loading this way permits the material to be spread uniformly. Loading front to rear is particularly important when the spreader is loaded by a mechanical loader because this type of load requires more power to spread than other loads.

When hauling extremely heavy material with a large portion of dirt, it may be necessary to reduce the load size to prevent excessive shear bolt breakage. Never dump material onto the beater. Do not use extra sideboards. Do not overload spreader. Overloading decreases spreading effectiveness. Do not load more than 15 inches above the beater.

SPREADING

NOTE: Two speed apron drive and beater engage/disengage mechanisms are contained in a single gearbox at rear of spreader. This gearbox is controlled by one rope leading to the tractor.

- When ready to unload, <u>before engaging PTO</u>, <u>make sure that the gearbox is in the "low" position</u>, with the shifter dog all the way to the "low" side of the indicator slot.
- 2. Raise the hydraulic endgate (if so equipped).
- 3. Engage the PTO slowly.
- 4. The apron speed may be increased from 4-1/2 fpm to 8-1/2 fpm (at 540 RPM) by pulling once on the control rope until the shifter dog stops and locks into the "high speed" position. The beater will continue to operate in this position.
- 5. When the spreader is almost empty, the bed can be cleaned out by again, pulling once on the control rope until the shifter dog locks into the "clean-out/beater disengage" position. The beater will stop, and the apron will continue to run in the "high" speed position, thus saving unloading time.





DO NOT CLEAN
OR WORK ON THIS
MACHINE WITHOUT
FIRST DISENGAGING
POWER AND
SHUTTING OFF
TRACTOR ENGINE.

- 6. When spreader is empty, SHUT OFF PTO. With the PTO off, pull the control rope once again, and release it. The shifter will return to the "low" position, ready to begin unloading the next load. DO NOT SHIFT FROM CLEAN OUT TO LOW POSITION WITH THE PTO RUNNING.
- Do not operate the spreader with a PTO speed greater than 540 RPM unless the necessary sprocket change has been made.

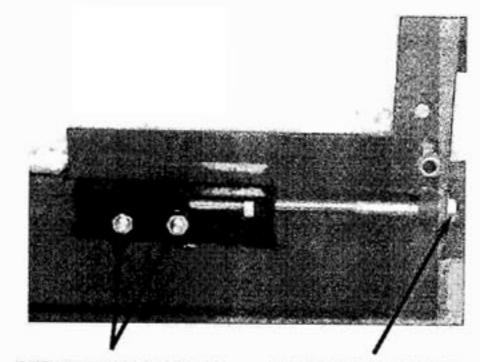
ADJUSTMENTS

FAILURE TO FOLLOW THE RECOMMENDED ADJUSTMENTS WILL VOID WARRANTY

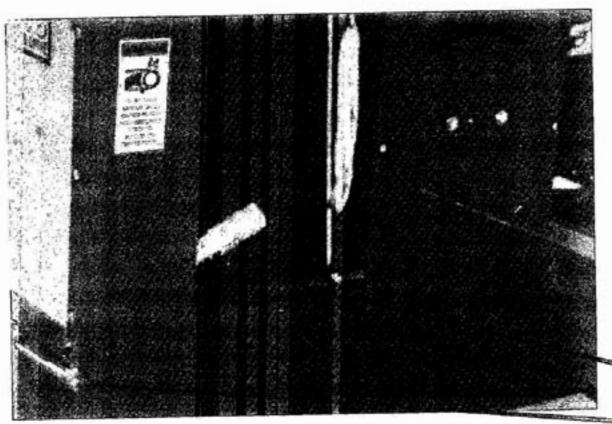
APRON

- Adjust the apron by loosening the mounting bolts on the chain slides on the outside of the frame. Mounting bolts shown in the drawing.
- Tighten the adjusting bolts until the apron has no sag between the rear drive sprockets and chain slides under spreader.

NOTE: Tighten the adjusting bolts (on each front corner) equally on each side so that the apron slats run parallel with the ends of the bed. The apron will be damaged if the machine is operated with one end of the apron slats running ahead of the opposite end. Do not tighten the apron chains excessively.



MOUNTING BOLTS ADJUSTING BOLT



Shields Removed For Clarity

DRIVE CHAIN

To adjust front drive chain, slightly loosen bolts holding pillow block bearing at rear of front jack shaft. Loosen jam nut on tightener rod. Turn adjusting nut (located at the right hand front side of spreader) clockwise. There should be 1/2" deflection at the center of the drive chain. Over tightening or too loose of a chain will result in excessive wear on the bearing, chain and sprockets. Retighten bolts holding bearing. Recheck chain for tension. Retighten jam nut.

BEARING

TIGHTENER BOLT

ADJUSTING WHEEL HUBS

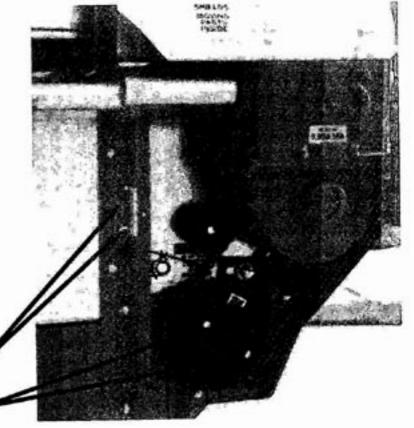
To adjust wheel hubs, tighten the castellated nut on the spindle to the point where there is no end-play and a slight drag on the bearings. Replace the cotter key with a new one of the correct size.

APRON WORM DRIVE CHAIN

The main apron drive chain is kept tight with a nylon roller type adjustable tightener. Periodically check tension on chain. Chain is properly adjusted when there is 1/8" deflection in center of chain. Also check tightener for wear and replace when necessary.

SHEAR BOLTS (Apron Drive)

The main apron is protected by two shear bolts located on the drive sprocket on the main conveyor drive shaft at the rear of the spreader. Two spare shear bolts are provided. Shearing of the bolts is normally due to the apron being frozen fast to the floor or the slats catching on manure that is frozen to the floor. In some cases, the bolt will shear due to the spreader being overloaded. Always determine the cause of the failure and eliminate the cause before installing new shear bolts.



Shields Removed for Clarity

REPLACEMENT SHEAR BOLTS

SHEAR BOLTS



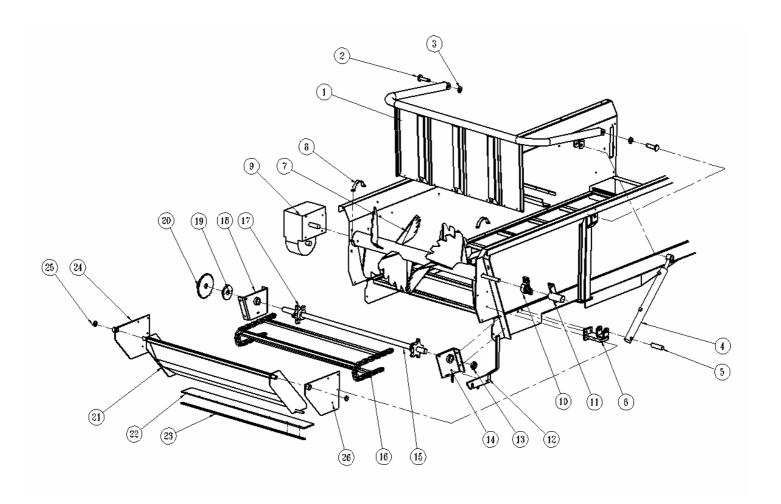
Shields Removed for Clarity

SHEAR BOLTS (Main Drive)

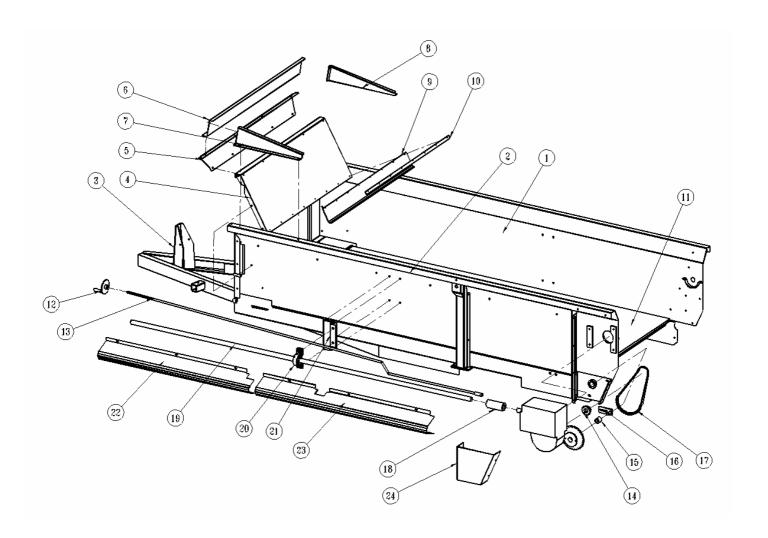
The beater and apron drive are protected by one shear bolt located on the front end of the side drive shaft (left side of spreader). Two spare shear bolts are provided. Shearing of the bolts is normally due to foreign objects in the manure or starting the spreader PTO too quickly with high tractor RPM's.

SHEAR BOLT

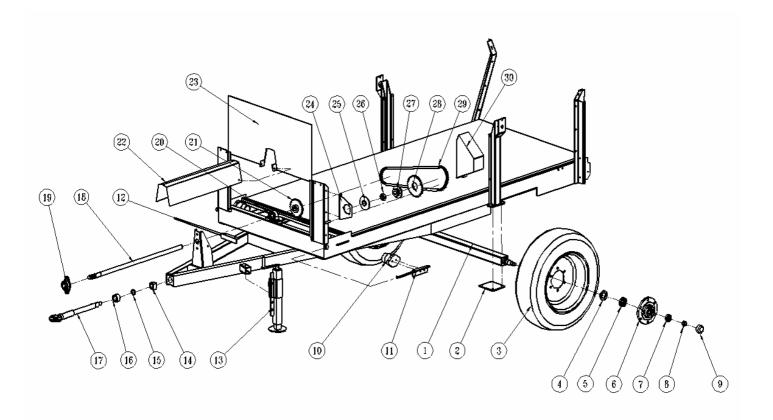
SPARE SHEAR BOLTS



No	Referans / Referance	Adet / Qty	TÜRKÇE	ENGLISH
			Parca Adı	Description
1	52.10.00.00.000	1	Arka Kapak Komple	Door Complete
2	52.00.00.00.015	2	Arka Kapak Baglanti Pimi	Door Connection Pin
3	52.00.00.00.016	2	Arka Kapak Baglanti Pulu	Door Connection Washer
4	52.00.00.00.012	1	Arka Kapak Kaldırma Pistonu	Door Piston
5	52.00.00.00.035	1	Piston Pimi	Piston Pin
6	52.12.00.00.000	1	Piston Baglantisi Komple	Piston Connection Complete
7	52.15.00.00.000	1	Arka Merdane	Beater
8	52.00.00.00.001	2	Merdane Kelepcesi	Beater Clip
9	CMR 689.006.10	1	Sanzıman	Gearbox
10	100R.UCP 206	1	UCP 206 Yatak	Hub Bearing UCP206
11	52.04.00.00.000	1	Arka Merdane Sabitleme	Beater Fixture
12	52.20.03.00.000	1	Kitleme Kolu	Lock Lever
13	52.00.00.00.023	1	Sag Zincir Mili Burcu	Right Chain Shaft Bush
14	52.07.00.00.000	1	Zincir Mili Baglanti Saci Sag	Chain Shaft Connection Plate Right
15	52.00.00.00.026	1	Arka Zincir Mili	Chain Shaft Complete
16	52.14.00.00.000	1	Zincir Komple	Chain Complete
17	52.19.00.00.000	2	Özel Zincir Dişli	Chain Sprocket
18	52.08.00.00.000	1	Zincir Mili Baglanti Saci Sol	Chain Shaft Connection Plate Left
19	52.00.00.00.022	1	Dişli Göbegi	Gear Hub
20	52.13.00.00.000	1	Z32 3/4" Zincir Dişli Komple	Sprocket Z32 3/4" Complete
21	52.20.02.00.000	1	Merdane Arka Kapak Komple	Beater Door Complete
22	52.20.00.00.001	1	Merdane Arka Kapak Kaucuk	Beater Door Rubber
23	52.20.00.00.002	1	Merdane Arka Kapak Silmesi	Beater Door Plate
24	52.20.01.00.000L	1	Baglanti Saci Sol	Connection Plate Left
25	52.20.00.00.003	2	Sıkma Burcu	Tightening Bush
26	52.20.01.00.000R	1	Baglanti Saci Sag	Connection Plate Right



No	Referans / Referance	Adet / Qty	TÜRKÇE	ENGLISH
			Parca Adı	Description
1	52.05.00.00.000	1	Sag Yan Duvar Komple	Right Side Wall Complete
2	52.06.00.00.000	1	Sol Yan Duvar Komple	Left Side Wall Complete
3	52.01.00.00.000	1	Sase Komple	Chassis Complete
4	52.00.00.00.004	1	Ön İc Sac	Front Inner Plate
5	52.00.00.00.008	1	Ust Ara Sac	Upper Mid Plate
6	52.00.00.00.007	1	Ust Sac	Upper Plate
7	52.00.00.00.009R	1	Ust Sac Kose Destek Sag	Upper Plate Side Support Right
8	52.00.00.00.009L	1	Ust Sac Kose Destek Sol	Upper Plate Side Support Left
9	52.00.00.00.005	1	Ön İc Sac Kaucugu	Front Inner Plate Rubber
10	52.00.00.00.006	1	Ön İc Sac Silmesi	Front Inner Plate Strip
11	52.16.00.00.000	1	Plywood Komple	Plywood Complete
12	52.22.01.00.000	1	Sanziman Gergi Saci	Adjustment Plate
13	52.22.02.00.000	1	Sanziman Gergi Kolu	Adjustment Lever
14	52.00.00.00.027	1	Z12 3/4" Zincir Dişli	Sprocket Z12 3/4"
15	52.00.00.00.037	1	Gergi Polyamidi	Tightener Polyamid
16	52.09.00.00.000	1	Sanziman Zincir Gergisi	Chain Tightener for Gearbox
17	GRBT 01	1	3/4 Zincir Sanziman	Chain 3/4"
18	52.00.00.00.028	1	Sanziman Kaplini	Gearbox Coupling
19	52.00.00.00.002	1	Yan Aktarma Mili	Side Transmission Shaft
20	100R.UCP 207	1	UCP 207 Yatak	Bearing UCP 207
21	52.18.00.00.000	1	Yataklama Saci	Guard Plate
22	52.00.00.00.014	1	Yan Aktarma Muhafaza Kısa	Side Guard Short
23	52.00.00.00.013	1	Yan Aktarma Muhafaza Uzun	Side Guard Long
24	52.00.00.00.038	1	Z32 Zincir Disli Muhafaza	Sprocket Z32 Guard



No	Referans / Referance	Adet / Qty	TÜRKÇE	ENGLISH
			Parca Adı	Description
1	52.01.01.00.000	1	Teker Profili Komple	Axle Complete
2	52.01.00.00.018	2	Teker Profili Baglanti Saci	Axle Connection Part
3	100L.900x16	2	900x16 Lastik	Tyre 900X16
4	100KC.85x50x10	2	Keçe 85 x 50 x 10	Seal 85 x 50x 10
5	100R.30208	2	30208 Rulman	Bearing 30208
6	52.00.00.00.030	2	Teker Poyrasi	Wheel Hub
7	100R.30206	2	30206 Rulman	Bearing 30206
8	100S.R7/8 Z:9 Somun	2	R 7/8" Z:9 Somun	Nut R7/8" Z:9
9	52.00.00.00.031	2	Poyra Kapagi	Wheel Hub Cover
10	52.21.00.00.000	2	Gergi Poyrasi	Tightener Hub
11	52.03.00.00.000L	1	Gergi Saci Sol	Tightener Plate Left
12	52.23.00.00.000	1	Yatak Gergi Grubu	Guide Tightener
13	52.24.00.00.000	1	Kriko	Standjack
14	52.17.00.00.002	1	Kare Burc	Square bush
15	52.17.00.00.004	1	Ceki pulu	Hitch Washer
16	52.17.00.00.003	1	Ceki Burcu	Hitch Bush
17	52.17.00.00.001	1	Ceki Mili	Hitch Pipe
18	52.00.00.00.036	1	Giriş Mili	Input Shaft
19	100R.UCFL 207	1	UCFL 207 Rulman	Bearing UCFL 207
20	100R.UCP 207	1	UCP 207 Rulman	Bearing UCP 207
21	52.00.00.00.017	1	Z25 3/4" Zincir Dişli	Sprocket Z25 3/4"
22	52.00.00.00.010	1	Saft Mili Muhafaza Saci	Guard Plate
23	52.00.00.00.011	1	Ön Sac	Front Plate
24	52.00.00.00.025	1	Ön Yataklama Saci	Front Guide Plate
25	100R.SBPF 207	1	SBPF 207 Rulman	Bearing SBPF 207
26	52.00.00.00.024	1	Yan Aktarma Mili Burcu	Side pipe bush
27	52.00.00.00.021	1	Z31 Disli Göbegi	Hub for Z31 gear
28	52.00.00.00.020	1	Z30 3/4" Zincir Dişli	Sprocket Z30 3/4"
29	GRBT 02	1	3/4 Zincir Giriş mili	Chain Input Pipe 3/4"
30	52.02.00.00.000	1	Zincir Dişli Muhafaza Grubu	Sprocket Guide