

Holes through which Adjusting Strap is bolted.

	A	B	C	D	E	F
(Height of Cut)						
Z	3 1/2	3	2 1/2	2	1 1/2	1

HEIGHT OF CUT

1. Approximate grass cutting height is shown above for each Gauge Wheel position. Ground conditions will alter final cutting height as well as the height at which the mower is carried on the Lift Lever. Exact cutting height can be determined only by mowing a small area and measuring the height of the grass.
2. Readjust Gauge Wheel positions until exact cutting height is obtained. Be sure both Gauge Wheels are in identical positions.
3. Cut grass more often rather than too short. Short grass is subject to more rapid deterioration in hot, dry weather and invites weed growth in growing weather. Check local recommendations for the most suitable grass height in your area.

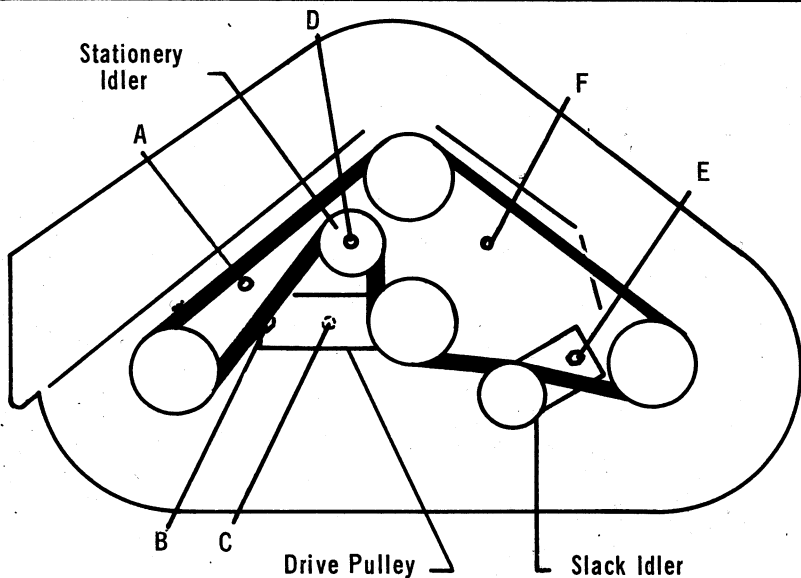
MAINTENANCE OF MOWER BLADES

1. Keep blades sharp and in balance. The center hole in the blade can be used for balancing a sharpened blade. Your dealer has the equipment to sharpen, balance and straighten blades properly.
2. Tighten the Blade Nuts to between 600 and 700 inch lbs. of torque.

CLEARANCE ROLLER

The M-42 Mower comes with a clearance roller which keeps the blades from digging into the ground when one side of the mower drops into a hole. This added device gives you a smooth, even cut and adds tremendously to the efficiency of your mower.

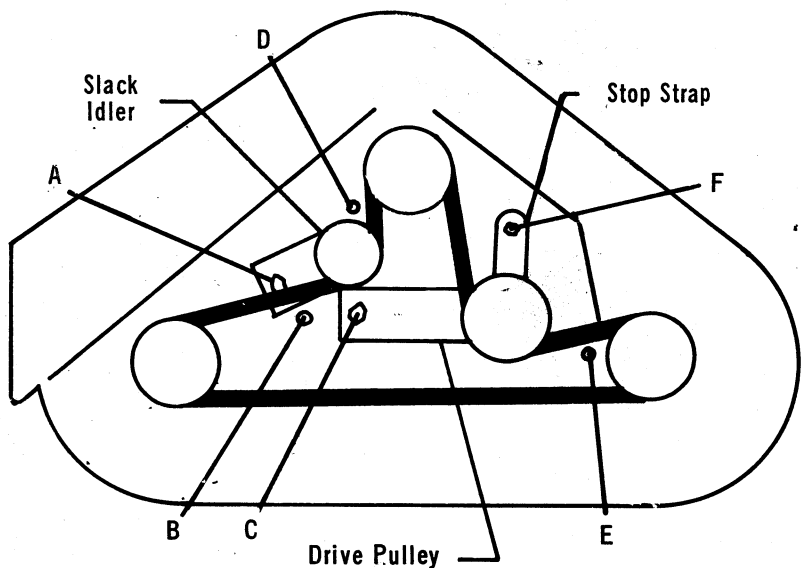
If you will follow the instructions in this book, your mower will give you maximum service with minimum expense.



**BELT THREADING
ON M-42
AFTER SERIAL NO. 2284**

Direct Drive and Hydraulic

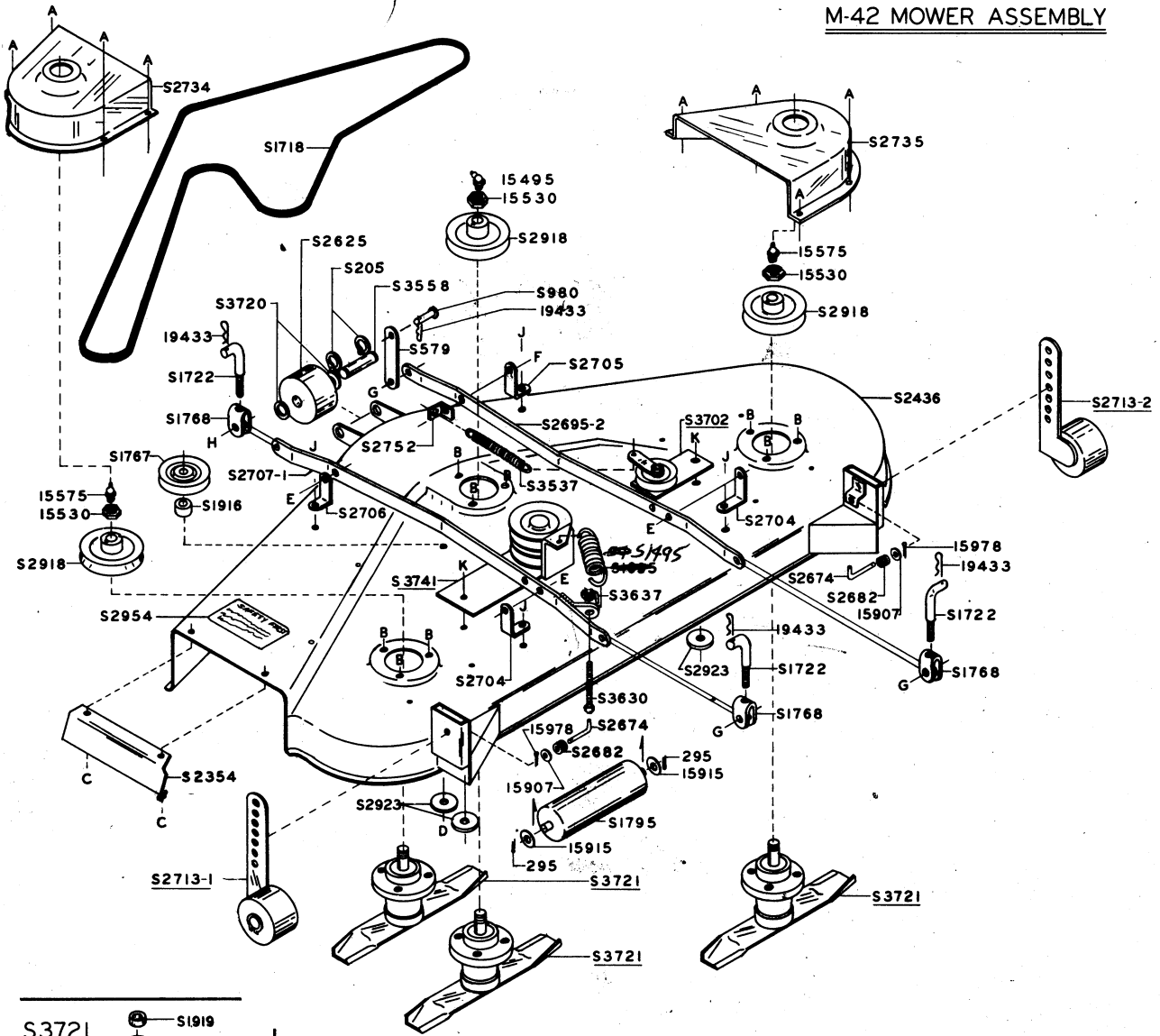
Drive Pulley should be mounted in hole "B", stationary Idler Pulley should be in hole "D", slack Idler should be in hole "E".



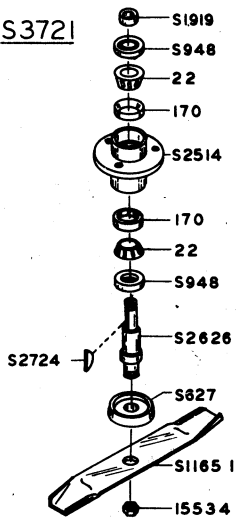
Vari-Drive

Drive Pulley should be mounted in hole "C", slack Idler Pulley should be mounted in hole "A", and Stop Strap should be mounted in hole "F".

M-42 MOWER ASSEMBLY

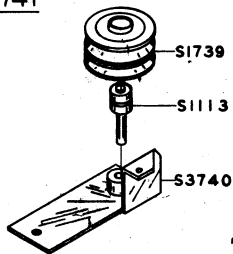


S3721

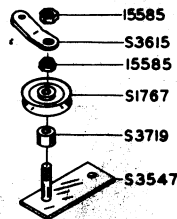


A	B	C	D	E	F	G	H	J	K
I5430	S2740	I9007	I9085	I9117	I9098	I5093	I9121	I5057	20021
S2955	I5800	I5526	I5585	I5503	I5503	I5585	I5585	I5812	I5585

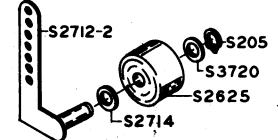
S3741



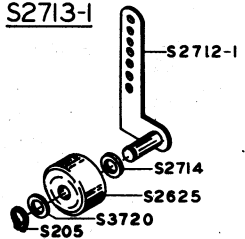
S3702



S2713-2



S2713-1



M-42 MOWER PARTS LIST

Part No.	Description	No. Req.	Part No.	Description	No. Req.
S205	Snap Ring	4	S2955	Star Washer	9
S579	Lift Bar	1	S2954	Safety First Emblem	1
S627	Weed Guard	3	S3537	Idler Spring	1
S948	Seal	6	S3547	Idler Bracket	1
S980	Mower Connecting Pin	1	S3558	Pin, Front Gauge Wheel	1
S1165-1	Blade	3	S3615	Spring Anchor	1
S1895	Spring	1	S3630	Spring Tension Bolt	1
S1718	Belt AA85	1	S3637	Anchor Weldment	1
S1722	Adjusting Height Rod	3	S3702	Idler Assembly	1
S1739	Drive Pulley Weldment	1	S3719	Idler Spacer	1
S3740	Idler Plate Weldment	1	S3720	Machinery Bushing	4
S3741	Drive Idler Assembly	1	S3721	Bearing Housing Assembly	3
S1767	Idler Pulley	2	22	Bearing Cone	6
S1768	Clevis	3	170	Bearing Cup	6
S1795	Gauge Roller	1	295	Cotter Pin 1/8 x 1-1/4	2
S1916	Pulley Bushing	1	15057	Capscrew 3/8-16 x 3/4	4
S1919	Spacer Collar	3	15093	Capscrew 1/2-13 x 1-1/2	3
S2354	Deflector	1	15430	Sheet Metal Screw	8
S2514	Bearing Housing	3	15495	Grease Fitting	1
S2625	Gauge Wheel	3	15503	Hex Nut 3/8-16	4
S2626	Blade Shaft	3	15526	Wing Nut 1/4-20	2
S2674	Fast Pin	2	15530	Lock Nut 3/4-16	3
S2682	Spring	2	15554	Lock Nut 1/2-13	4
S2704	Rear Hanger	2	15575	Grease Fitting	2
S2695-2	Lift Arm	1	15585	Locknut 1/2-13	3
S2705	Front Hanger R.H.	1	15800	Lockwasher 1/4	2
S2706	Front Hanger L.H.	1	15812	Lockwasher 3/8	8
S2707-1	Lift Arm	1	15907	Flatwasher 5/16	2
S2713-1	Gauge Wheel Assembly	1	15915	Flatwasher 3/8	2
S2713-2	Gauge Wheel Assembly	1	15978	Cotter Pin 3/32 x 3/4	2
S2714	Spacer	2	19007	Capscrew 1/4-20 x 3/4	2
S2724	Woodruff Key 3-16 x 1-3/8	3	19065	Capscrew 1/2-13 x 2-1/2	1
S2734	Belt Shield L.H.	1	19098	Capscrew 3/8-16 x 1-1/4	1
S2735	Belt Shield R.H.	1	19117	Capscrew 3/8-16 x 1	4
S2740	Housing Bolt	9	19121	Capscrew 1/2-13 x 1-3/4	1
S2752	Spring Catch	1	19433	Presto Pin	4
S2918	Pulley	3	20021	Capscrew 1/2-13 x 1	2
S2923	Idler Shim	3	S2436	Mower Deck	1

GENERAL OPERATING INFORMATION

1. When you are mowing, keep children and pets away from the mowing area. They could be seriously injured.
2. Keep hands and feet from under the mower while the engine is running and until the blades have stopped rotating.
3. Before mowing remove sticks, stones and all other debris from the area which is to be mowed.
4. Always use wide rear wheel tread when you are mowing on hillsides.
5. Keep all shields and guards in place.
6. Do not allow passengers to ride on the tractor when you are mowing.
7. Always drive slowly over rough ground and on hillsides. Drive at speeds slow enough to insure your safety.
8. Always wear relatively tight belted clothing when you are operating your tractor.

Caution: Before servicing the machine, do the following:

1. Disengage mower
2. Shut off engine

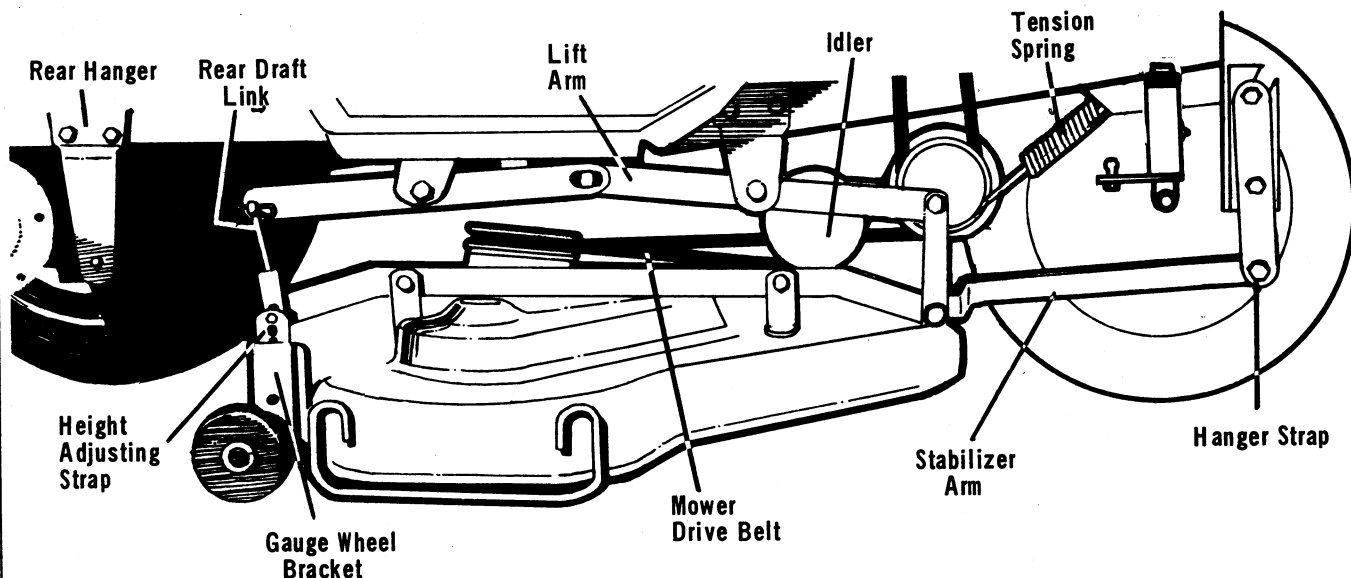
3. Make sure mower blades have stopped revolving
4. Disconnect the engine spark plug cable

METHOD OF MOWING

1. Turn to the right as much as possible so that grass clippings will be discharged evenly over the grass which has already been cut. Turning to the left causes a build-up of grass clippings which prevent uniform cutting and impose an unnecessary load on the tractor.
2. Turn to the left when beginning to mow large open areas to discharge clippings away from borderline objects such as sidewalks, driveways, fences, etc. After you make two or three left hand passes, mow in the opposite direction turning to the right until you are finished.
3. Extremely tall grass should be mowed twice. Raise the mower and cut only half the desired height. Then mow a second time to the desired height.
4. Plan to mow straight forward as much as possible.

SHIPMENT OF ALL NECESSARY PARTS

The mower is shipped complete with all necessary parts for connecting the mower to all tractors which are manufactured by Bush Hog, Inc. A box of parts is shipped to adapt this mower to all Bush Hog tractors.



INSTALLATION OF M-42 MOWER TO VARI-DRIVE TRACTORS

Note: All necessary parts of the mower have been named in the above picture. Refer to the picture when you are attaching the mower.

1. Position the mower under the tractor and attach the left Rear Draft Strap (Which is not shown) and the right Rear Draft Link to the Lift Arms with Presto Pins.
2. Connect the front Draft Links to the Lift Arms with Presto Pins.
3. Attach Stabilizer Arm to Hanger Strap which will pivot in slot on Quick Hitch Brackets to allow mower to be pushed back, and bottom bolt to be attached in Quick Hitch Brackets.
4. Attach the Height Adjusting Strap (Which is already attached to the Gauge Wheel) to the Gauge Wheel Bracket by inserting the pin through the Gauge Wheel Bracket and the desired hole in the Height Adjusting Strap. The six holes in the Height Adjusting Strap are for obtaining the desired height at which to cut grass.
5. Attach Mower Drive Belt to Mower Drive Pulley. Stand looking toward the rear of the mower and twist the loose end of the belt to the right. Bring the belt under the Idler Pulley and around the Main Drive Pulley as the picture illustrates. If the belt is properly connected, the Mower Drive Pulley will turn clockwise and the mower blades will turn counter clockwise.

Note: The attachments are the same for both sides of the mower, except there is only one set of belts.

- To adjust the tension of the belt on the Mower Drive Pulley, you may adjust the Tension Spring at the front of the tractor. Belt tension may also be adjusted by the capscrew on the left Rear Hanger Bar.

VARI-DRIVE SPEED CONTROL LEVER

Note: This lever will be found only on the V-3-6, V-4-6, and V-4-7 tractors. Refer to the tractor manual.

Using the Vari-Drive Speed Control Lever while you are mowing will save time - because you will not have to stop to shift gears when you encounter areas of tall or dense grass.

Simply move the lever back to slow the tractor when the mower is overloaded because of tall or dense grass. This will not only slow the tractor, but will transmit more horsepower to the mower blades.

When you are mowing, always operate the engine at full throttle. This is necessary to maintain proper blade speed and to create a maximum flow of air to cool the engine.

Best mowing will generally result when the transmission in the tractor is operated in low (1st) or (2nd) gear with the Vari-Drive Speed Control lever in the midpoint of the Quadrant, and the engine is operating at full throttle.

If the engine lugs and labors in second gear in tall or dense grass, and the Vari-Drive Speed Control Lever is all the way back, then shift into low (1st) gear.

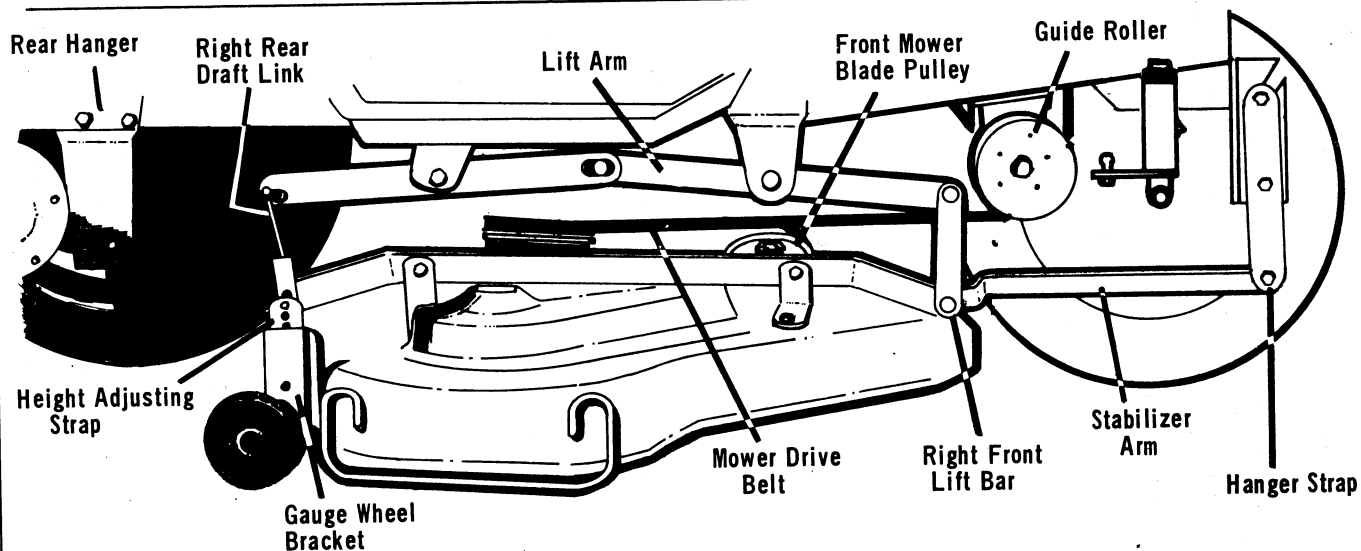
If grass will not cut satisfactorily in low (1st) gear and the engine throttle is wide open, overlap by only using a portion of the mower width.

Use your Vari-Drive Speed Control Lever to slow down when you are making turns. Sharp, fast turns tend to shear off blades of grass and push the turf as the front of the tractor wheels slide.

Slow down for maximum control when you are trimming.

A brief change in the speed of forward travel may also be controlled with the use of the tractor Brake-Clutch Pedal. Refer to your tractor Operator's Manual.

Caution: Do not use the tractor Clutch-Brake Pedal to slow forward travel over rough ground or on hillsides. This could be dangerous.

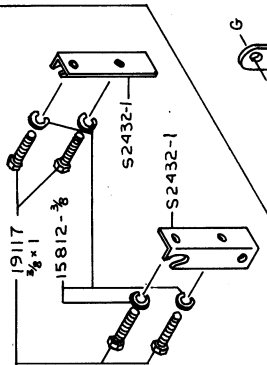


INSTALLATION OF M-42 MOWER TO THE D4-7, D4-10 AND T-63 TRACTORS

Note: All necessary parts of the mower have been labeled in the picture. Refer to the picture when you are attaching the mower.

- When you attach the M-42 Mower to Direct Drive Tractors, use the Mower Drive Pulley which is assembled on the mower.
- Position the mower under the tractor and attach the left Rear Draft Strap and the right Rear Draft Link to the Lift Arms with Presto Pins.
- Connect the Front Draft Links to the Lift Arms with Presto Pins.
- Attach Stabilizer Arm to Hanger Strap which will pivot in slot on Quick Hitch Brackets to let you push mower back and attach bottom bolt in Quick Hitch Brackets.
- Attach the Height Adjusting Strap, which is already attached to the Gauge Wheel, to the Gauge Wheel Bracket by inserting the Fast Pin through the Gauge Wheel Bracket and the desired hole in the Height Adjusting Strap. The six holes in the Height Adjusting Strap are for obtaining the desired height at which to cut grass.
- Use Guide Roller Idler Sheaves No. S3743 for the D4-10 and D4-7 tractors. Use belt No. S2214 on the D4-10 and D4-7 tractors.
- Use Guide Roller Assembly No. S-652 for the T-63 tractor. The preceding drawing illustrates how to attach the Guide Roller Assembly to the T-63 tractor. Use belt No. S2219 for the T-63 tractor. The other instructions are the same for both tractors.
- Refer to the preceding picture. Attach the Mower Drive Belt to the Mower Drive Pulley. Bring the belt under the

QUICK HITCH KIT S3320



NOTE!! S3490 HANGER BARS & S3123 STABILIZER ARMS ARE FURNISHED IN ATTACHMENT KITS S1711A, S1713B.

S3593 HANGER BARS & S3592 STABILIZER ARMS ARE FURNISHED IN ATTACHMENT KIT S2999A.

1. Attach Angle Brackets S2704, S2705, and S2706 to Deck with capscrews 19100, Lockwashers 15812 as shown in figure at right

2. Attach S2707-1 Lift Arms with Capscrews 19117, Lockwasher 15812, and Hex Nut 15503 to Angle Brackets in step number one.

3. Attach S2695-2 Lift Arm to S2704 Angle Brackets with Capscrew 19117, Lockwasher 15812 and Hex Nut 15503. Add S2752 Spring Catch when fastening to Angle Bracket S2705 with Capscrew 19098, Lockwasher 15812 and Hex Nut 15503.

- A 19100 $\frac{3}{8} \times \frac{3}{4}$
 B 19117 $\frac{3}{8} \times 1$
 C 19098 $\frac{3}{8} \times 1\frac{1}{4}$
 D 15093 $\frac{1}{2} \times 1\frac{1}{2}$
 E 19121 $\frac{1}{2} \times 1\frac{3}{4}$
 F S980
 G 20040 $\frac{3}{4} \times 1\frac{1}{2}$
 H 19098 $\frac{3}{8} \times 1\frac{1}{4}$
 I 20041 $\frac{1}{2} \times 1$

- D 15093 $\frac{1}{2} \times 1\frac{1}{2}$
 E 19121 $\frac{1}{2} \times 1\frac{3}{4}$
 F S980
 G 20040 $\frac{3}{4} \times 1\frac{1}{2}$
 H 19098 $\frac{3}{8} \times 1\frac{1}{4}$
 I 20041 $\frac{1}{2} \times 1$

- A 19100 $\frac{3}{8} \times \frac{3}{4}$
 B 19117 $\frac{3}{8} \times 1$
 C 19098 $\frac{3}{8} \times 1\frac{1}{4}$
 D 15093 $\frac{1}{2} \times 1\frac{1}{2}$
 E 19121 $\frac{1}{2} \times 1\frac{3}{4}$
 F S980
 G 20040 $\frac{3}{4} \times 1\frac{1}{2}$
 H 19098 $\frac{3}{8} \times 1\frac{1}{4}$
 I 20041 $\frac{1}{2} \times 1$

4. Assemble Draft Links S1766 at 4-7/16 center of hole to center of Rod and attach to Lift Arms with Capscrew 15093, Locknuts 15554 at rear of mower. At left front of mower attach Draft Link and S3123 Stabilizer Arm (Toward center of mower) with Capscrew 19121, Locknut 15554, at front right of mower attach Lift Bar S579 inside of Lift Arm S2695-2 and Stabilizer Arm S3123 inside of Lift Bar S579 with Capscrew 15093, Locknut 15554.

5. Attach Anchor Bolt through Arm S2707-1 and Spring Anchor S3637 and attach S1695 Spring between Spring Anchor and Idler shown in figure below.

6. Attach Spring S3537 between S2752 Spring Catch and S3702 Idler Bracket.

7. Attach Hanger Bar S3490 to Stabilizer Arms S3123 with Capscrew 20041, and Locknut 15554.

8. Snap in Gauge Wheels to desired height.

9. Attach S3490 Hanger Bars to Quick Hitch of Tractor with 20040 Capscrews. Hang mower with Lift Bar and Draft Links and 19433 Presto Pins, Attach Main Drive Belt and push back S3490 Hanger Bars and fasten with Capscrew 19098, Lockwasher 15812 and Nut 15503.

