HONDA
Power
Equipment

HTA

OPERATOR'S MANUAL

MOLDBOARD PLOW
for
LIGHT DUTY TRACTORS
with
CATEGORY 0 3-POINT HITCH

HONDA CODE # 3755790

WARRANTY SERVICE

Your satisfaction and goodwill are important to your dealer and to us. All Honda warranty details are explained in the Distributor's Limited warranty at the back of this booklet. Normally, any problems concerning the product will be handled by your dealer's service department. If you have a warranty problem that has not been handled to your satisfaction, we suggest you take the following action:

- Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.

- If your problem still has not been resolved to your satisfaction, contact the Customer Relations Department of American Honda Motor Co., Inc.:

AMERICAN HONDA MOTOR CO., INC.
POWER EQUIPMENT DIVISION
4475 RIVER GREEN PARKWAY
DULUTH, GEORGIA 30136

CUSTOMER SERVICE DEPARTMENT
(404) 497-6400

We will need the following information in order to assist you:
—Your name, address, and telephone number
—Product model and serial number
—Date of purchase
—Dealer name and address
—Nature of the problem

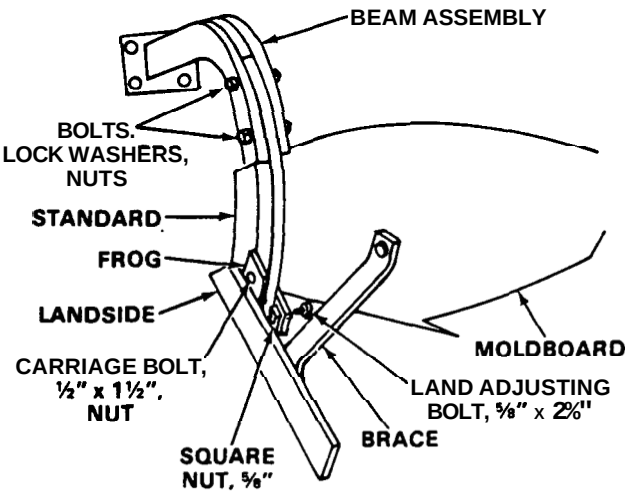
After reviewing all the facts involved. you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities. equipment, and personnel, so it is very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both your dealer and American Honda Motor Company. We want to assist you in every way possible to assure your complete satisfaction with your purchase.

ASSEMBLY

1. **Secure** the landside to the frog with **two** ⅜" x 1" plow bolts and square nuts; finger tighten. **Next,** mount the brace between the moldboard and the landside with ⅜" x 1" plow bolts and square nuts. Tighten **all** bolts securely.

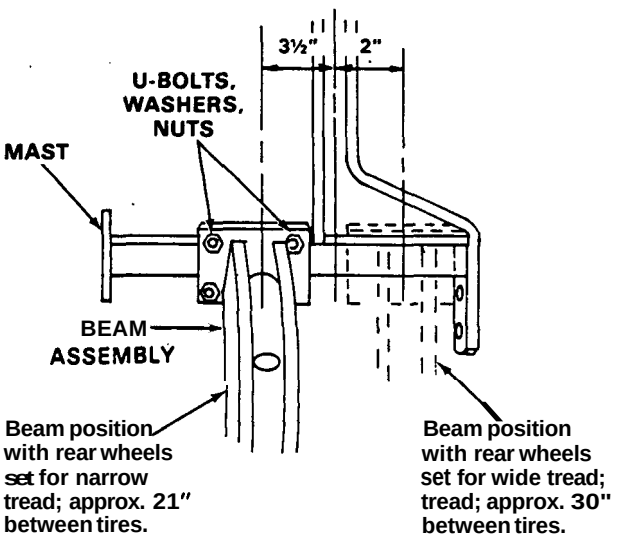
2. Assemble the standard to the landside assembly after inserting the land adjusting bolt (⅝" x 2½" hex) through the tab on the standard and into the square nut. Then install the carriage bolt and square nut at the top hole, and the ½" x 2" plow bolt and square nut (not shown) at the remaining hole in the landside, frog, and standard. Tighten the bolts securely.



3. Position the beam assembly over the standard and secure with **two** ½" x 2½" hex bolts, lock washers, and hex nuts; tighten securely.

4. Install the beam assembly on the mast using two U-bolts **(saddled** from the front), ⅝" **lock washers, and hex** nuts.

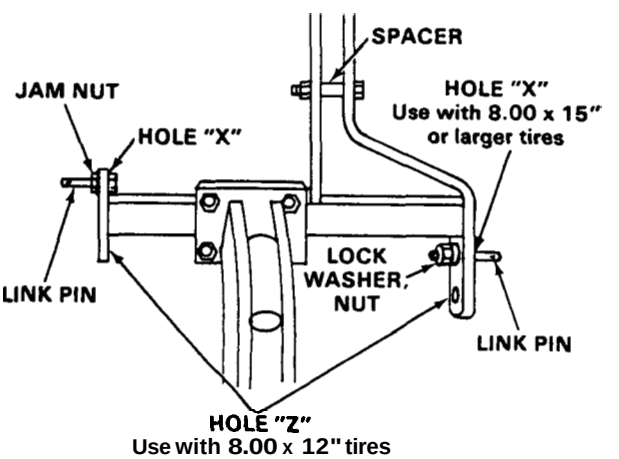
NOTE: If the tractor rear wheels **are** set in narrow tread position, position the **beam as** shown. If wheels **are** set wide. locate the **beam as** outlined. (See **Width of Cut** in **'OPERATION** section.)



5. Install the spacer **between** the mast **arms** at the bottom hole. Secure with a ⅝" x **21/13"** hex bolt, lock washer. and hex hut.

6. Install the link pins and secure them with ⅝" hex **jam** nuts, lock washers. and hex nuts.

NOTE: Use holes X—X for tractors with 8.00 x 15" or larger tires: use holes Z—Z with 8.00 x 12" tires.



7. Insert the standard into the hub on the fork and secure it with the pin. Leave an equal amount of the pin extending on each side of the hub.

8. Assemble the coulter blade hub to the blade using three carriage bolts, flat washers, and hex lock nuts.

9. Assemble the fork and coulter with the axle, aligning the squares. Install two flat washers. and secure with the cotter pin. Bend the legs of the pin over the axle.

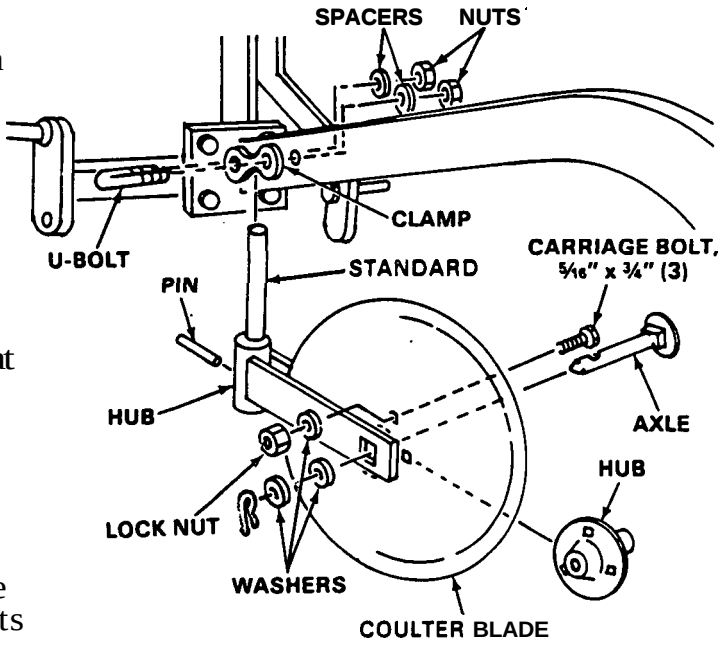
10. Mount the coulter/fork assembly on the left side of the plow beam using the clamp and U-bolt. Insert two spacers between the beam arms, then secure the U-bolt with 5/8" hex nuts: tighten the nuts securely.

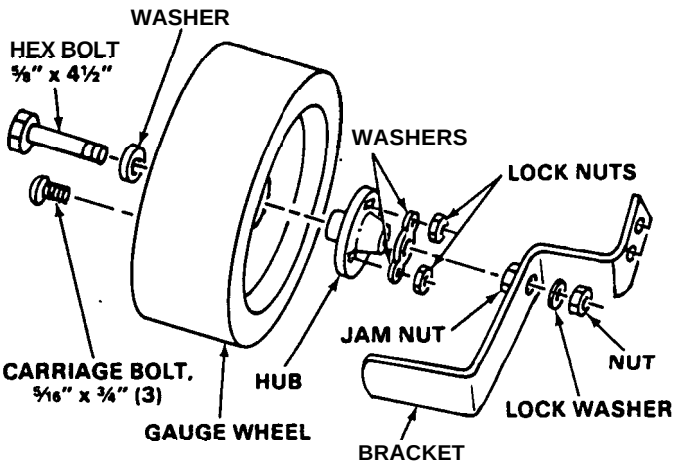
    After assembly, refer to **PLOW ADJUSTMENTS** to set the coulter.

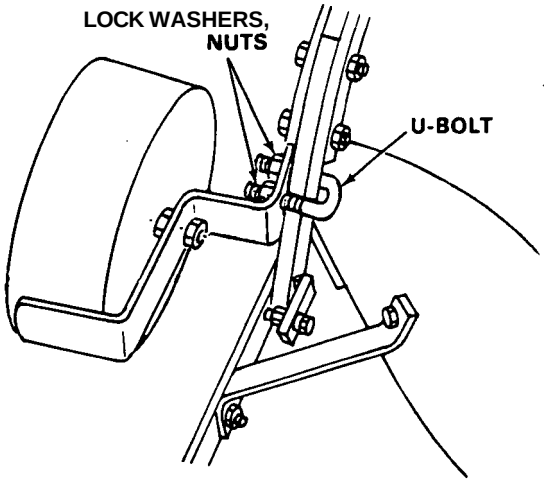
11. Install the hub on the gauge wheel using three 5/16" x 3/4" carriage bolts, plain washers, and hex lock nuts.

12. Install the flat washer on the hex bolt, insert the bolt through the hub. then add a second flat washer and the hex jam nut. Secure with the lock washer and hex nut on the inside of the bracket as shown.

13. Mount the gauge wheel assembly on the plow beam standard using the short U-bolt and secure with 5/8" lock washers and hex nuts.







Preparing Plow for Use

After assembly, clean the moldboard with a rag soaked in turpentine, kerosene or naphtha so that dirt will be less likely to stick to the protective coating. The coating can be removed with an old brick or a pumice stone, but this usually isn't necessary unless the soil is too wet or sticky.

WARNING Work in a well-ventilated area and handle cleaning materials with care. Wipe up any spilled liquid immediately and make sure the area is dry before starting the tractor.

PRE-OPERATION ADJUSTMENTS

1. Install the plow on the tractor: Secure the link pins to the lower links with spring pins. Install the hitch upper link at the top hole in the mast and secure with the hitch pin.

2. Working on flat ground, raise the left side of the tractor 6″ - 7″ and block at this height. (This simulates a plowing position—right tractor tires in furrow wall, left tires on land.)

3. Raise and lower the plow with the hydraulic lift; the plow bottom should contact the ground with the lift lever in the lowered or "float" position.

   Next, raise the plow slightly off the ground and adjust the upper and lower links so the plow bottom is completely level with the ground. Place! the hitch in the float position and check the plow bottom: it should rest *completely flat* on the ground.

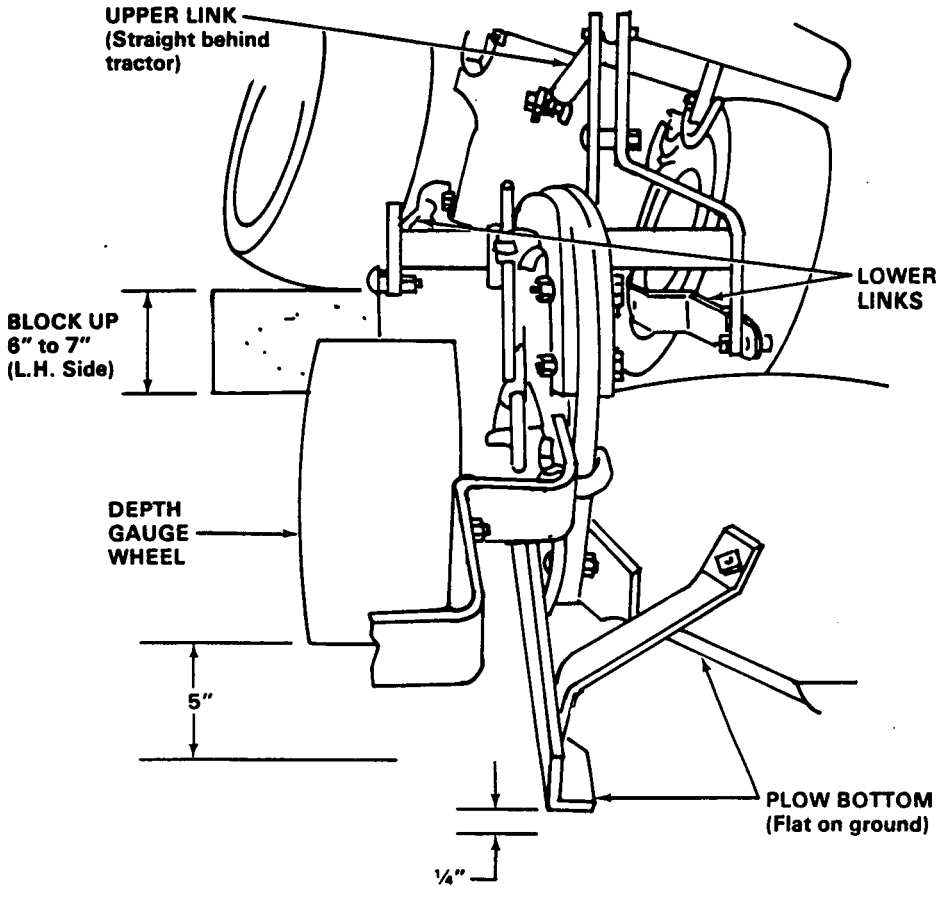
   Finally, adjust the upper link slightly so the landside heel is approximately ¼″ off the ground.

4. Align the plow directly behind the tractor (upper link extended straight toward rear).

   With a straightedge (2 x 4, steel bar, etc.), extend a line from the inside edge of the right rear tire on back to the plow bottom. (This simulates a furrow wall.) For the plow to cut 12″ wide (standard width). the. bottom should reach this line.

   To increase or decrease the standard cutting width, *see* **PLOW ADJUSTMENTS** on the next page.

5. Set the gauge wheel approximately 5″ above the ground. This will provide a controlled 6″ plow depth and prevent the plow from going too deep in soft and/or wet spots.



OPERATION

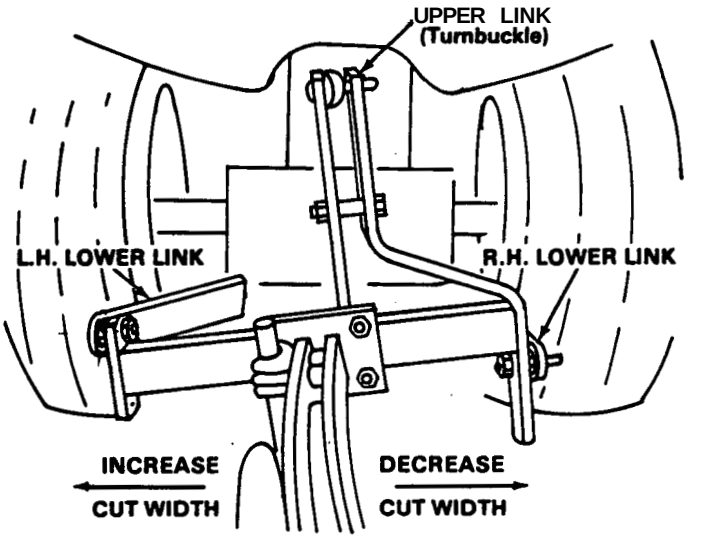
PLOW ADJUSTMENTS

Width of Cut

Following proper assembly and initial adjustments, the plow cut width will be 11" - 12" when the right rear wheel is running against the furrow wall.

To change the width, loosen the U-Bolts and move the beam along the mast an inch at a time to find the best width: Move to the right to decrease, and to the left to increase the width.

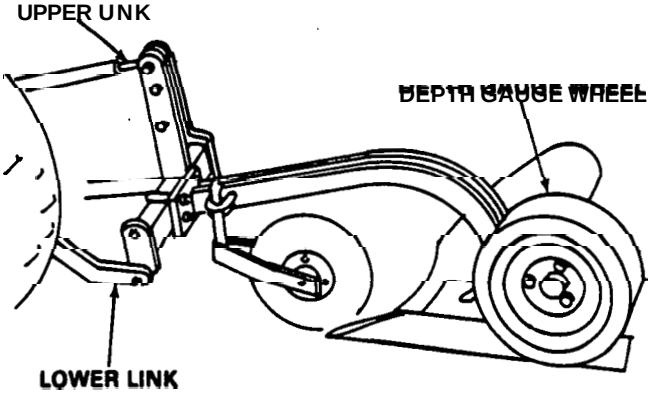
NOTE. Under extreme or heavy plowing conditions, you may prefer to reduce the cut width, rather than the plow depth, to avoid overloading the tractor.



Depth

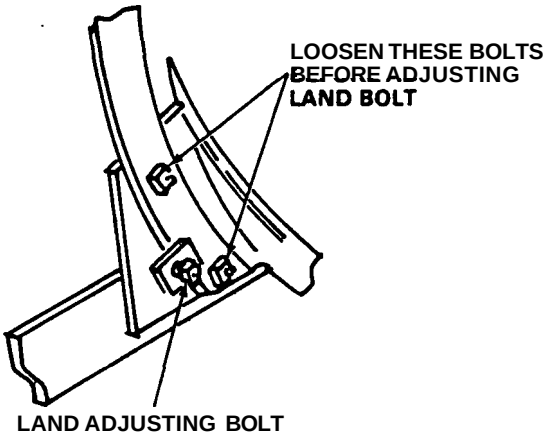
The plow point pitch (or suck) is controlled by the hitch upper link. Shortening the link will make the plow go deeper; lengthening the link will cause the plow to run shallow. With the link pre-adjusted as described earlier, the plowing depth should be 5" - 6" when the tractor wheels are running in a previously plowed furrow.

NOTE: Always readjust the gauge wheel and check the plow lever (see next page) after changing the plowing depth.



Landing

The plow is correctly landed when the running *clearance* between the lower links and the tires is approximately equal, and the upper link extends straight behind the tractor.



The plow bottom reacts like a rudder while the ground is engaged. If the plow point is too far from the left of the beam, the plow will overcut and leave a ragged furrow wall. To adjust, loosen the bolts attaching the landside of the standard and turn the land adjusting bolt clockwise two turns. Retighten the attaching bolts. Repeat the adjustment, if necessary, until the plow follows the tractor correctly.

Leveling

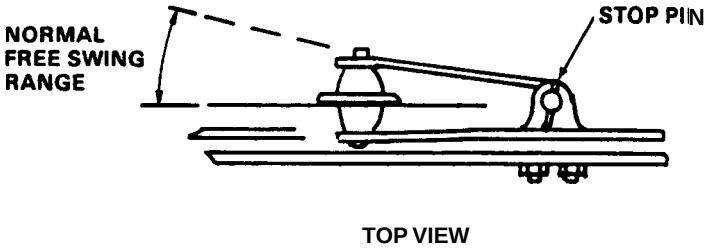
With the tractor running in a previously plowed furrow at the desired depth and width of cut, stop the tractor with the plow in the ground and inspect the unit from the rear.

The standard should be near vertical from the ground. If it appears to lean to the right, raise the right side link by turning the rod clockwise, or lower the left side by turning its rod counterclockwise. Reverse the adjustments for a left-leaning standard.

coulter

The coulter should slice 2″ - 3″ deep. To adjust, loosen the clamp securing the standard and raise or lower the fork/standard assembly.

Also, check the blade swing: It should be free to swing outward a limited amount from the beam but should not swing in to touch the beam or plow bottom. Adjust the stop pin as required.



PLOWING

Lay out the field to be plowed and, if possible, make it rectangular—about three or more times as long as it is wide. Be sure to leave some room at each end for turning the tractor.

NOTE: It is easier to plow a few long furrows than many short ones.

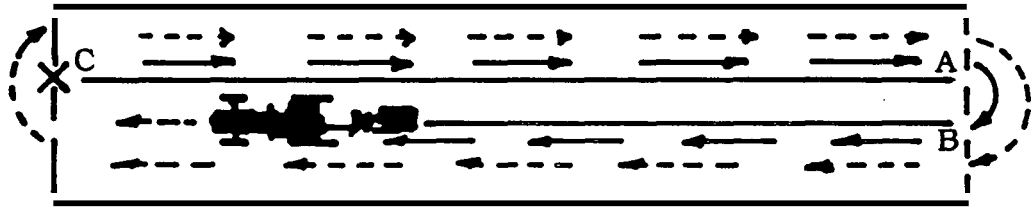
Make sure the ground is in proper condition: Never plow when soil is wet. If it is too dry, it will be difficult for the plow to penetrate the soil. Avoid low places, old roadways, paths and other places where the soil is overly packed. Cut high weeds or grass before plowing.

Expect to have trouble with thick sod which hasn't been plowed in several years. However, you should be able to do a satisfactory job under most conditions once you've found the best settings for the plow and hitch.

1. Lower the plow with the hydraulic lift lever to turn the point into the ground. **Be sure to leave the lift control in the float position.**

   The plow works best at a depth of approximately one-half the cut width (for example. 6" -7" for the standard 12" setting). In some soils it may be necessary to shorten the hitch top link to get satisfactory penetration on the first and second plowing passes.

2. Start plowing by laying off a dead furrow as shown: begin at point "X" and plow to the end of the plot.



   Fix your eyes on a tree or some distant object in line with the middle of the plow so you can steer the tractor to plow a straight first furrow to point "A." **Lift and turn the plow,** and at point "B," lower it again and plow a dead furrow, piling the dirt on top of the dirt from the first furrow.

NOTE Always lift the plow before turning.

3. When you return to point "X," and before you start real plowing with both the tractor's right wheels in the furrow at point "C," adjust the top hitch link so the landside heel runs from level to ¼" from the furrow bottom. Check the plow level.

4. Plow in a clockwise direction. moving steadily along, but not too fast. At the proper speed the earth will turn over and not fall back into the furrow. Plowing too fast will result in an uneven furrow, and the dirt will be thrown rather than rolled.

5. After plowing a few rounds, stop and check all plow, coulter, and frame bolts; tighten as required.

MAINTENANCE

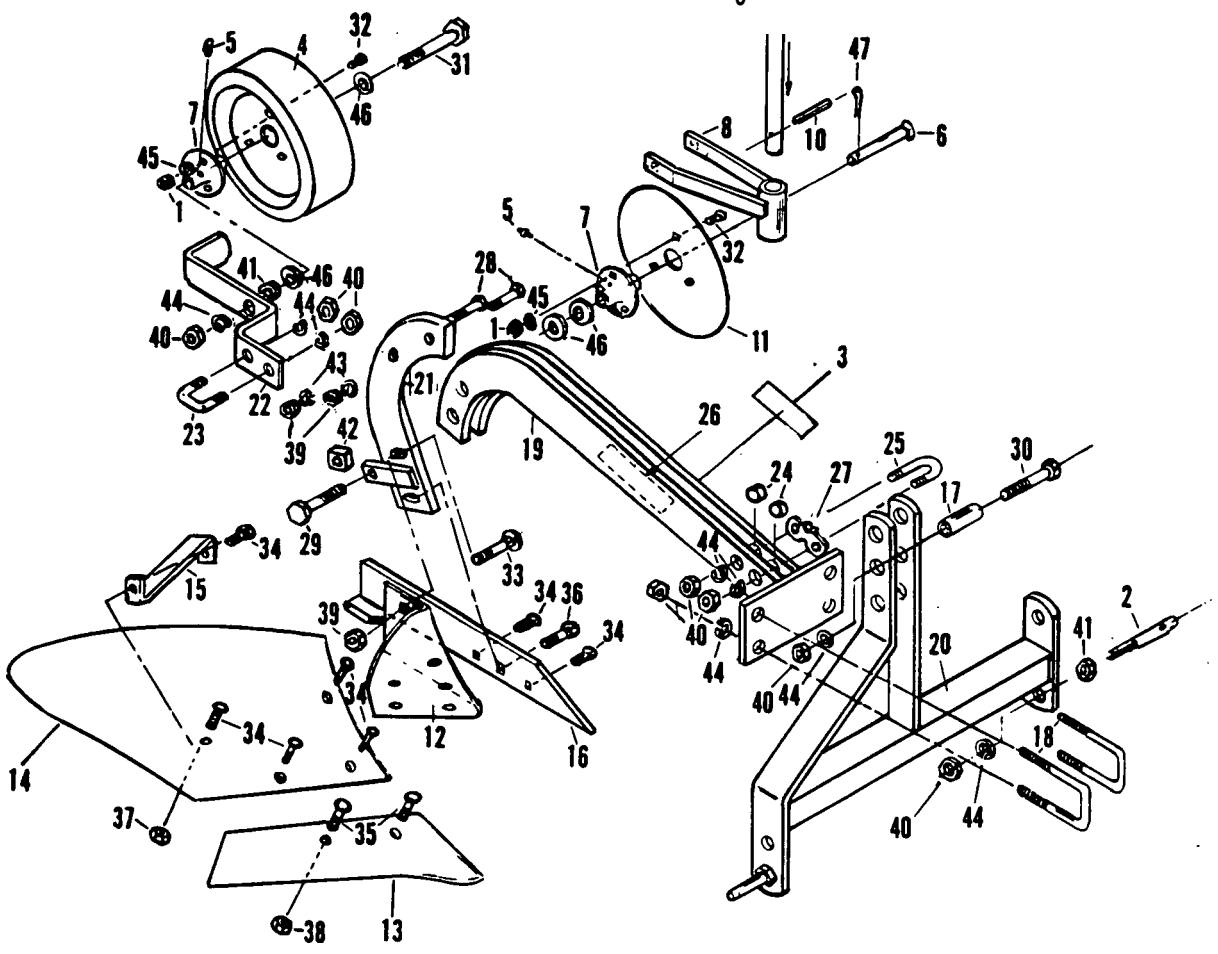
Lubricate the coulter and depth gauge wheel with a standard grease gun at least once a day during use.

When putting the plow away, wipe the polished surface and coulter blade with grease or oil to prevent rust,

Periodically check the **plowshare for** wear.

PLOWING PROBLEMS

Possible Cause or Condition	Remedy
SLOW GROUND ENTRY	
• Improper upper link adjustment	See Depth Adjustment
• Badly worn plowshare	Replace share
PLOW CROWDING	
• Improper landing	See Landing Adjustment
UNEVEN PLOWING DEPTH	
• Extreme variation in soil texture and/or moisture: plow rides up in hard spots	See Depth Adjustment: reduce tractor speed in hard spots
• Plow won't stay down: runs shallow	See Pre-Operation Adjustments re proper upper and lower hitch link settings
• Plow runs too deep	Lower depth gauge wheel; lengthen upper link
POOR TRASH COVERAGE	
• Plow not level	See Leveling Adjustment
• Plow bottom not scouring	Clean bottom until polish is obtained—see Preparing Plow for Use
• High weeds—impractical to cut	Attach 7–8 ft. length of chain or heavy wire on right side of mast to pull along right side of moldboard
PLOW BOTTOM WON'T SCOUR	
• New or rusted bottom	Clean bottom—see Preparing Plow for Use
PLOW PULLS HEAVY/EXCESSIVE WHEEL SLIPPAGE	
• Plow bottom won't scour	See same above
• Plow runs too deep	See same above
• Plow overcutting	See Width of Plow Cut Adjustment



AMERICAN HONDA
MOLDBOARD PLOW

REF. NO.	DESCRIPTION	REF. NO.	DESCRIPTION
1	Hex Lock Nut, 5/16"	25	"U" Bolt, Coulter
2	Pivot Link	26	Serial No./Model No. Decal
3	Logo Decal	27	Coulter Clamp
4	Gauge Wheel	28	Hex Bolt, 1/2" x 2 1/2"
5	Lube Fitting, 5/16"	29	Hex Bolt, 5/8" x 2 1/2"
6	Carriage Bolt Blank, 5/8" x 4"	30	Hex Bolt, 5/8" x 3"
7	Hub	31	Hex Bolt, 5/8" x 4 1/2"
8	Fork Assembly	32	Carriage Bolt, 5/16" x 3/4"
9	Coulter Standard	33	Carriage Bolt, 1/2" x 1 1/2"
10	Spiral Pin, 5/16" x 1 1/4"	34	Plow Bolt, 3/8" x 1"
11	Coulter Blade	35	Plow Bolt, 7/16" x 1"
12	Frog	36	Plow Bolt, 1/2"x 2"
13	Share	37	Hex Nut, 3/8"
14	Moldboard	38	Hex Nut, 7/16"
15	Brace	39	Hex Nut, 1/2"
16	Landside Assembly	40	Hex Nut, 5/8"
17	Spacer	41	Hex Jam Nut, 5/8"
18	"U" Bolt	42	Square Nut, 5/8"
19	Beam Assembly	43	Lock Washer, 1/2"
20	Mast Assembly	44	Lock Washer, 5/8"
21	Standard	45	Plain Washer, 5/16"
22	Mounting Bracket (Gauge Wheel)	46	Plain Washer, 5/8"
23	"U" Bolt	47	Cotter Pin, 1/8" x 1 1/4"
24	Beam Spacer		