HONDA
Power
Equipment

HTA

OPERATOR'S MANUAL

FRONT QUICK HITCH
MODEL NO. QH4000

TABLE OF CONTENTS

INTRODUCTION

Thank you for purchasing an HTA attachment for your Honda Tractor.

The HTA Model QH4000 Front Quick Hitch makes it possible to attach either an HTA 42" Two Stage Snowblower or Dozer Blade on Honda H4013, H4514 and H4518 Lawn Tractors.

This manual covers the assembly, operation and maintenance of the QH4000 Front Quick Hitch. For your convenience, a parts guide is also included in this publication.

NOTE: The information in this publication is based on the latest product information available at the time of printing. American Honda Motor *Co.,* Inc. reserves the right to make changes at any time without notice and without incurring any obligation.

Pay special attention to the statements preceded by the following symbols:

⚠ DANGER Indicates severe personal injury or death WILL result if instructions are not followed.

⚠ WARNING Indicates a strong possibility that serious personal injury or death could result if instructions are not followed.

⚠ CAUTION Indicates a possibility that minor injury can result if instructions are not followed.

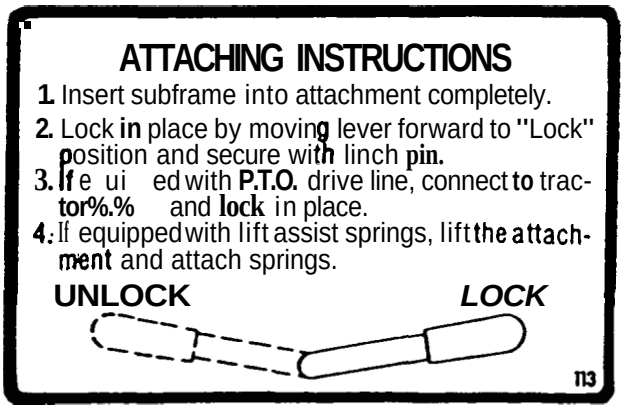
IMPORTANT NOTICE **Indicates that equipment or property damage can result if instructions are not followed.**

NOTE: **Gives helpful information.**

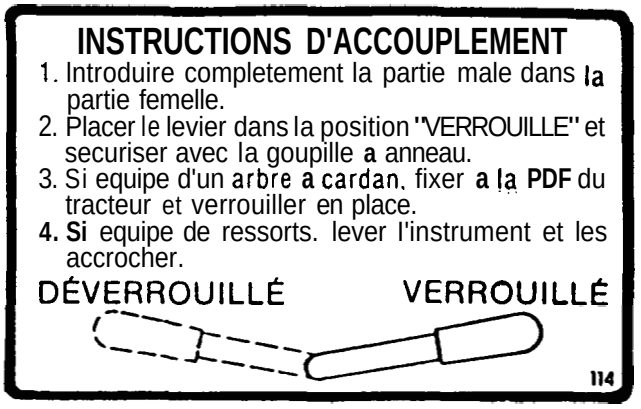
HTA attachments are designed to give safe and dependable service if assembled and operated according to instructions.

If a problem should arise, or if you have any questions about this attachment, consult an authorized Honda tractor dealer.

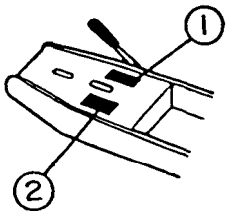
REPLACE IMMEDIATELY IF DAMAGED

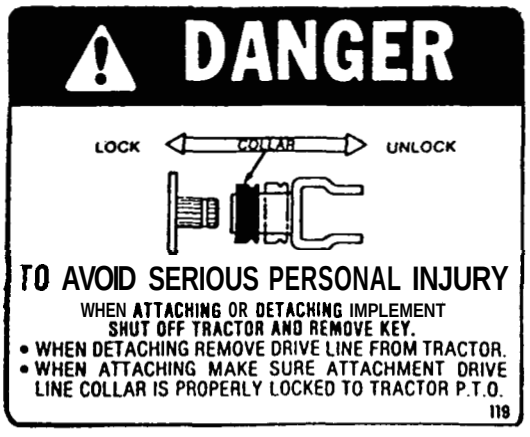


(1) LOCATED ON MALE QUICK HITCH (CANADA & US)



(1) PLACE ON MALE QUICK HITCH (CANADA ONLY)





(2) LOCATED ON MALE QUICK HITCH (US & CANADA)

(2) PLACE ON WALE QUICK HITCH (CANADA ONLY)

Assembly

IMPORTANT: Before beginning assembly of this subframe, make sure tractor is on a level surface, parking brake is set and that engine is turned off, with key removed.

SUBFRAME PREPARATION

a) Loosely attach rear hitch plate (fig.1, item 1) to bottom of subframe channel (fig.1, item 2).

Use a 1/2" x 1 1/4" bolt (fig.1, item 3), flatwasher, lockwasher and nut, and a 1/2" x 5" bolt, long tube spacer (fig. 1, item 10), lockwasher and nut (fig.1, item 4). Do not tighten yet.

b) Loosely attach subframe flatbars (fig.1, item 5) and the lift support brackets (fig.1, item 6) to the sides *of* channel (fig.1, item 2).

Use four 1/2" x 1 1/2" bolts (fig.1, item 7), lockwashers and nuts. Do not tighten yet.

c) Loosely attach the support plate (fig.1, item 8) inside the subframe flatbars (fig.1, item 5).

Use four 3/8" x 1 1/4" bolts (fig.1, item 9), lockwashers and nuts. Do not tighten yet.

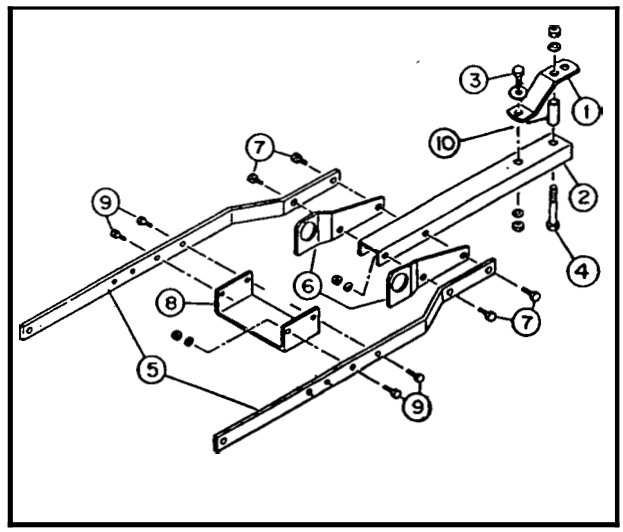


FIGURE 1

LIFT MECHANISM

a) Insert two 3/8" x 2 1/4" bolts (fig.2, item 1) through the smaller holes in the lift lever (fig.2, item 2), and secure them with a 3/8" uni-torque (stover) self-locking nuts. DO NOT BEND THE LEVER.

b) Attach push arm (fig.2, item 3) to the lift lever (fig.2, item 2) with a 17/32" x 2 1/4" pin (fig.2, item 4) as shown. BE SURE TO USE THE CORRECT HOLE.

Use a 5/32" x 1" cotter pin to secure the pin (fig.2, item 4).

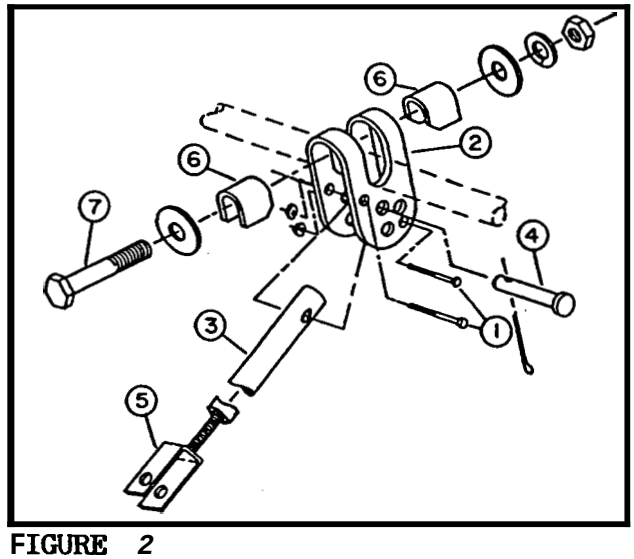


FIGURE 2

c) Thread the adjustment fork (fig.2, item 5) into the end of the push arm (fig.2, item 3). Adjust the overall length of push arm assembly to **32 13/16".**

d) Place an 11/16" flatwasher and a bent retainer plate (fig.2, item 6) on the 5/8" x 4" bolt (fig.2, item 7).

Insert the bolt into the lever as shown. Place another bent retainer plate and flatwasher on the bolt, and secure it loosely with a lockwasher and nut.

e) Install a flange bearing (fig.3, item 1) into each lift support bracket (fig.3, item 2) from the inside.

f) Insert the lift arm (fig.3, item 3) through the bearing in the right hand lift support bracket. Put a tube spacer (fig.3, item 4) on the arm, and then insert the arm through the lift lever (under the 5/8" bolt).

Insert the arm through another tube spacer, and then through the left hand lift support bracket bearing. The end of the arm should protrude 2 1/4" beyond the bearing.

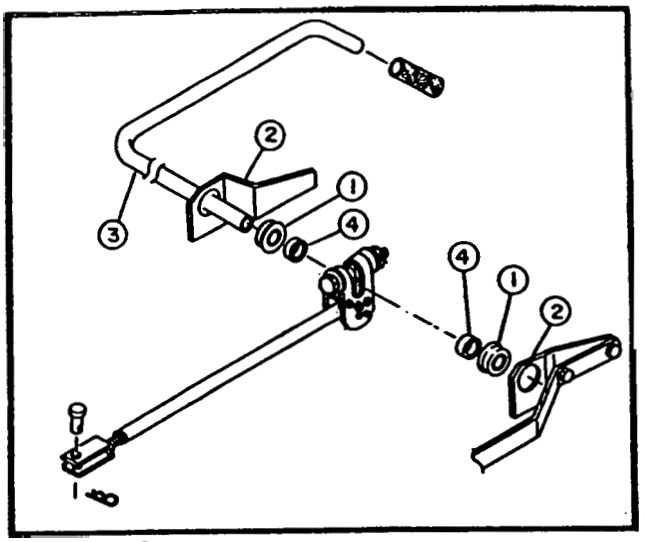


FIGURE 3

g) Position the subframe channel (fig.1, item 2) in line with subframe flatbars (fig. 1, item 5) and securely tighten bolts (fig.1, item 7 and 9).

h) Rotate the lift arm (fig.4, item 3) so that its handle is parallel to the ground, and block in that position. Set the lift lever (fig.4, item 2) so that the 5/8" x 4" bolt(fig.4, item 4) is perpendicular to the ground, and then tighten the bolt to 50 lbs. ft.

i) Install 1" x 4 1/2" plastic handle (fig.4, item 3) on lift arm (fig.4, item 1).

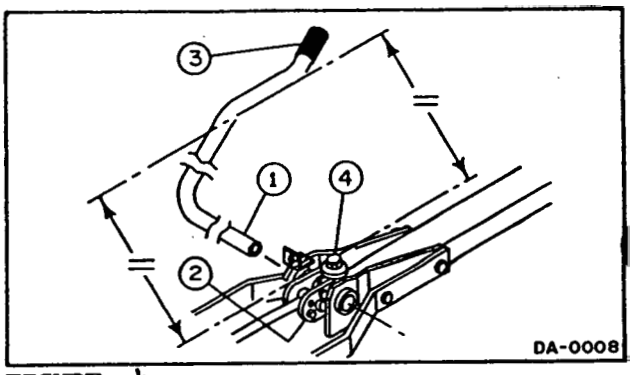


FIGURE 4

TRACTOR PREPARATION

a) Loosely attach the front support brackets (fig.5, item 1) to the tractor frame. For each bracket, use one 10mm x 1.25 x 25mm bolt (fig.5, item 2) with lockwasher, and two 10mm x 1.25 x 30mm bolts (fig.5, item.3) with lockwashers for each bracket. Do not tighten yet.

b) Loosely attach the attaching plates (fig.5, item 4) to the front support brackets (fig.5, item 1). Use three 3/8" x 1" bolts (fig.5, item 5) with lockwashers for each plates. Do not tighten yet.

c) Loosely install the reinforcement plate (fig.5, item 6) between the two attaching plates (fig.5, item 4). Use two 5/16" x 3/4" bolts (fig.5, item 7), lockwashers and nuts IN THE FRONT HOLES ONLY. Install the bolts heads and lockwashers from the inside with the nut on the outside as shown. Do not tighten yet.

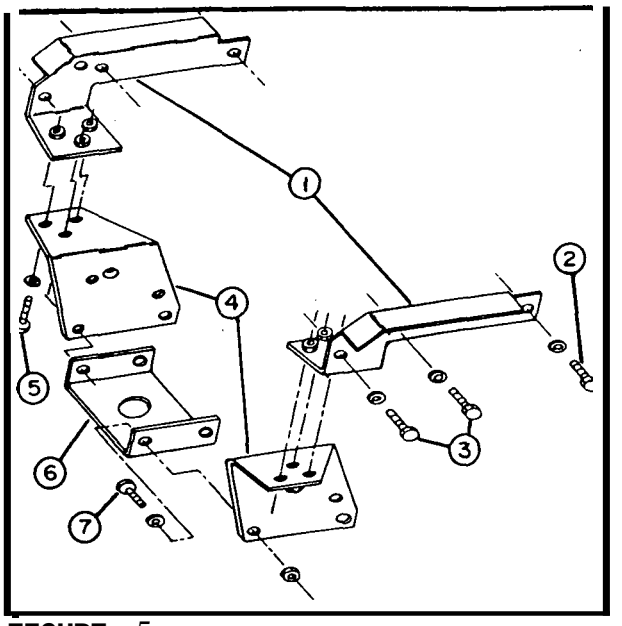


FIGURE 5

SUBFRAME INSTALLATION

WARNING: To avoid injury, park the tractor on a level surface, turn off the engine, remove the key and set the parking brake.

a) Install male hitch (fig.6, item 1) in the pivot bracket (fig.6, item 2). Use four 7/16" x 1 1/4" bolts (fig.6, item 3), lockwashers and nuts. Install the bolts from the inside as shown, and tighten them securely.

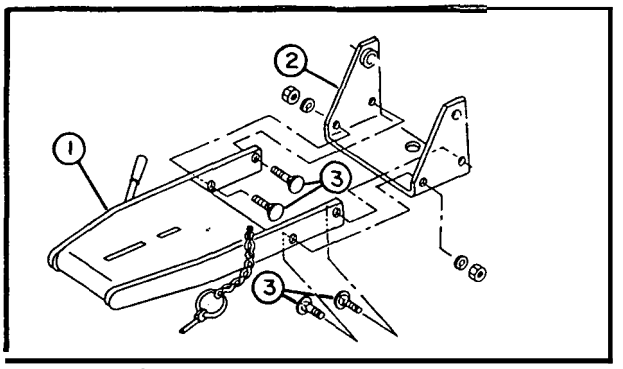
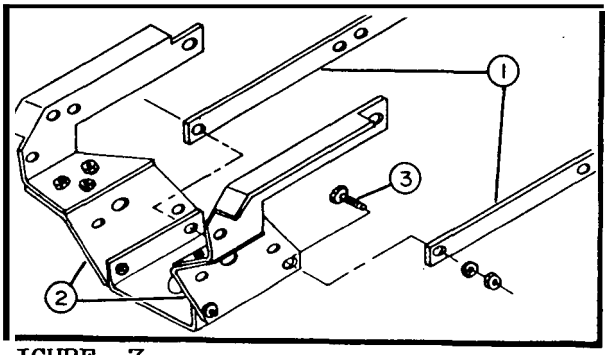


FIGURE 6

b) Position the subframe assembly under the tractor. Insert the rear of the assembly between the wheels on the right hand side of the tractor, and then pull it forward.



IGURE 7

c) Loosely attach front of subframe flatbars (fig.7, item 1) to the outside attaching plates. **Use two** 1/2" x 1 1/2" bolts (fig.7, item 3), lockwashers and nuts. Install the bolts from the inside as **shown.** Do not tighten yet.

d) Attach the subframe's rear hitch plate (fig.1, item 1) to the tractor's rear draw plate with the 1/2" x 5" bolt (fig. 1, item 4).

e) Securely tighten the 5/16 x 1/4" bolts (fig.5, item 7). Refer to the torque specification table on page **11.**

f) Slide the male hitch assembly (fig.8, item 1) between the attaching plates (fig.7, item 2). Align the hard bushing holes and attach the hitch to the subframe with the 5/8" x 10 5/8" pin (fig.8, item 2). Secure the pin with a **5/32" x 1"** cotter pin on one end and a **4mm x 80mm** spring clip (hair pin) (fig.8, item 3) at the other end.

NOTE: If there is too much play between male hitch assembly and attaching plates, use with thin flat washers included in kit **as** shims.

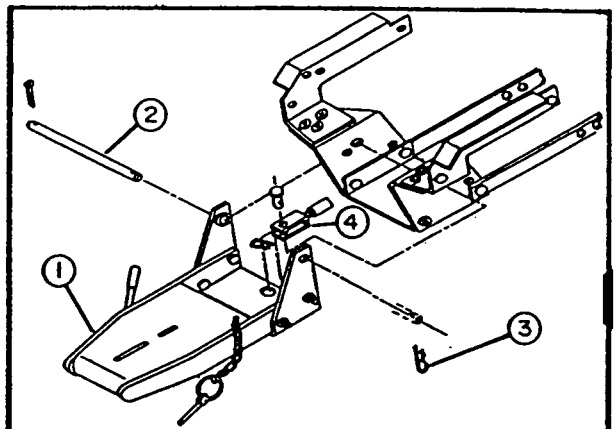


FIGURE *8*

g) Attach the fork end of the push arm (fig.8, item 4) to the bottom of the pivot bracket with a 5/8" x **1** 5/8" pin and a **4mm x 80mm** spring clip (hair pin).

NOTE: The lift arm can be rotated to facilitate this installation.

h) Tighten the **10mm** bolts (fig.5, items **2** & 3) that attach the front support brackets to the tractor frame, and then tighten the three 3/8" bolts (fig.5, item 5) that attach the attaching plates to the support brackets. Refer to the torque specification chart on page **11.**

i) Tighten the 1/2" bolts (fig.9, item 1). Refer to the **Torque** Specification Table on page 11.

j) Secure the rear hitch plate (fig.1, item 1) to the tractor by tightening the 1/2" x 6" bolt (fig.1, item 4), and then the 1/2" x 1 1/4" bolt (fig.1, item 3). Refer to the Torque Specification Table **on** page **11.**

k) If necessary, adjust the lift arm (fig.3, item 3) ***so*** that the handle section **is** parallel to the fender with approximately **1"** of clearance when it **is** pulled all the **way** back.

l) Tighten the 5/8" **x 4"** bolt (fig.4, item 4) **on** the lift lever to **100** lbs-ft.

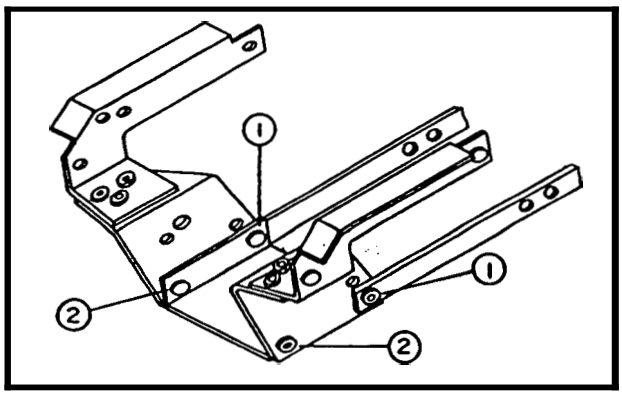


FIGURE 9

IMPORTANT NOTICE Red reflectors must be installed on rear fender of tractor when quick hitch is installed.

m) Attach the two self adhesive reflectors to the rear fender as illustrated in figure 10.

Reflectors should be approximately 1/2" (13mm) up and 6" (150mm) in from outside corners.

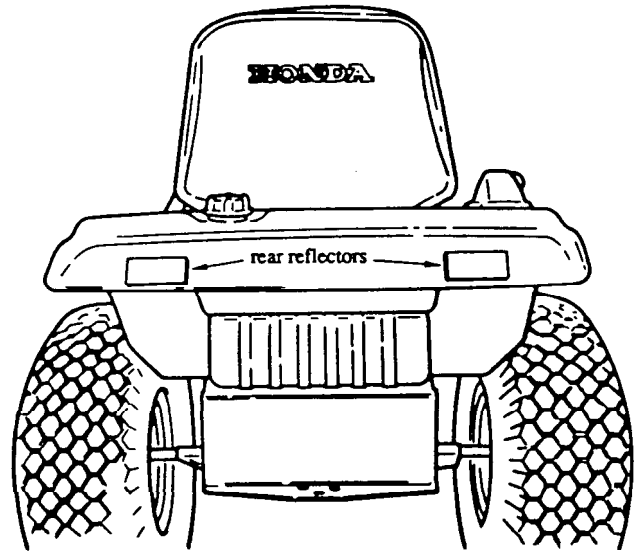


FIGURE 10

SUBFRAME REMOVAL

To avoid injury, park the tractor on a level surface, turn **off** the engine, remove the key, and set the parking brake before removing the subframe.

a) Lower the hitch with the **lift** arm.

b) Remove 1/2" x 5" bolt (fig.1, item 4) from the tractor's rear draw plate.

c) Remove the two 1/2" x 1 1/4" bolts (fig.?, item 1) that secure the subframe flatbars to the attaching plates.

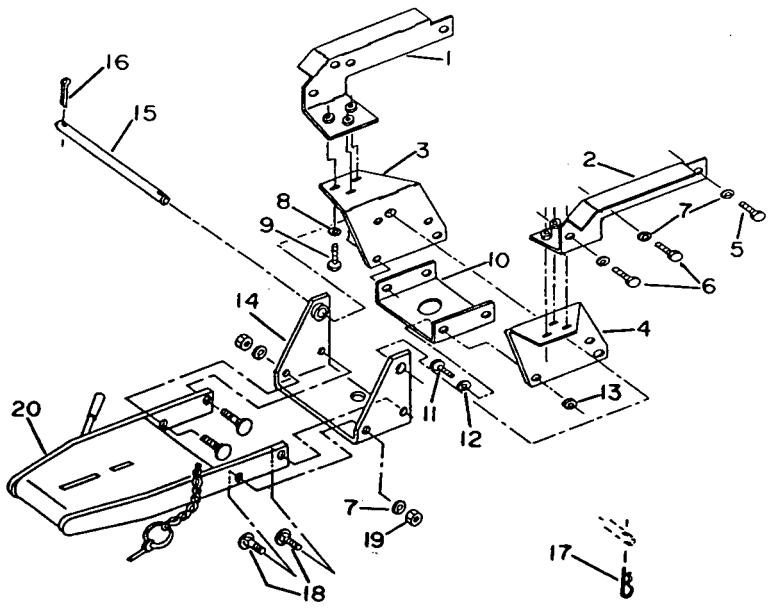
d) Disconnect the end of the push arm (fig.8, item 4) from the pivot bracket by removing the 5/8" x 1 5/8" pin.

e) Remove the subframe from under the tractor.

f) Carefully remove the front support brackets (fig.5, item 1) from the tractor frame, and then remove the male hitch assembly from the tractor.

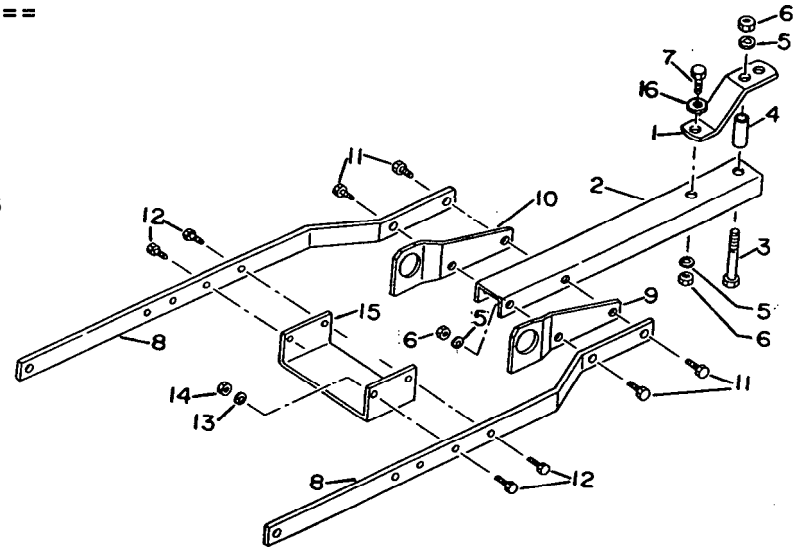
PUSH FRAME ASSEMBLY

REF	DESCRIPTION	QTY
1	Front support bracket RH ..	1
2	Front support bracket LH ..	1
3	Attaching plate RH	1
4	Attaching plate LH	1
5	Hex bolt 10mm X 25mm	2
6	Hex bolt 10mm x 30mm	4
7	Lockwasher 7/16"	10
8	Lockwasher 3/8"	6
9	Hex bolt 3/8" x 1"	6
10	Reinforcement plate	1
11	Hex bolt 5/16" x 3/4"	2
12	Lockwasher 5/16".	2
13	Hex. nut 5/16"	2
14	Pivot bracket	1
15	Pin 5/8" x 10 5/8"	1
16	Cotter pin 5/32" x 1"	1
17	Hair pin 4mm x 80mm	1
18	Hex bolt 7/16" x 1 1/4" ...	4
19	Hex. nut 7/16"	4
20	Male hitch assembly	1



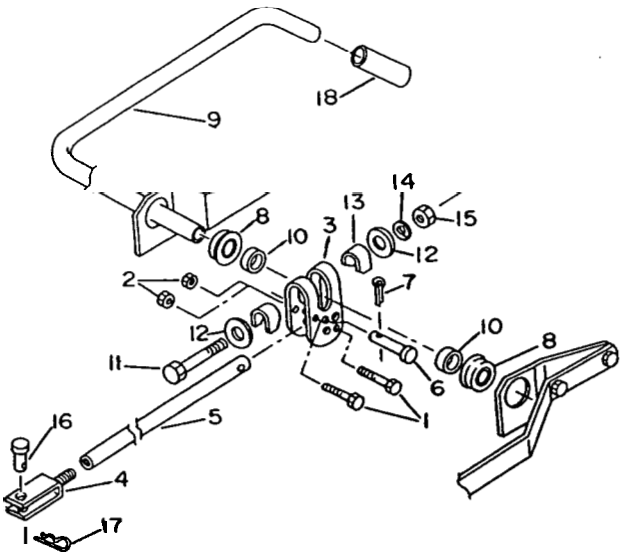
SUBFRAME ASSEMBLY

REF	DESCRIPTION	QTY
1	Hitch plate	1
2	Subframe channel	1
3	Hex bolt 1/2" x 5"	1
4	Tube spacer	1
5	Lockwasher 1/2"	6
6	Hex nut 1/2"	6
7	Hex. bolt 1/2" x 1 1/4" ...	1
8	Subframe flatbar	2
9	Lift support bracket L.H. .	1
10	Lift support bracket R.H. .	1
11	Hex bolt 1/2" x 1 1/2"	4
12	Hex bolt 3/8" x 1"	4
13	Lockwasher 3/8"	4
14	Hex nut 3/8"	4
15	Support plate	1
16	Flatwasher, 9/16" dia.hole	1



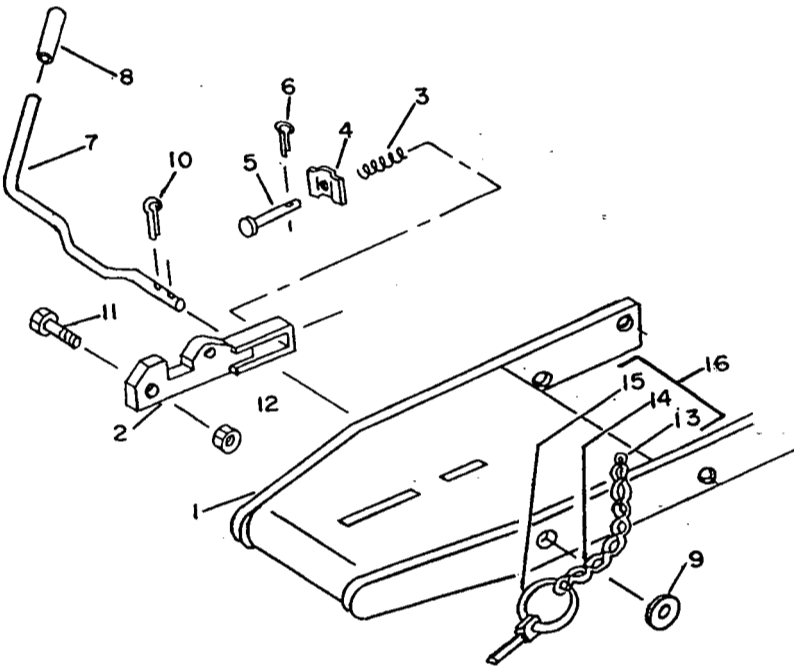
LIFT MECHANISM ASSEMBLY

REF	DESCRIPTION	QTY
1	Hex bolt 3/8" x 2 1/4"	2
2	Hex nut 3/8", Uni-torque	2
3	Lift lever	1
4	Adjustment fork	1
5	Push arm	1
6	Pin (17/32" x 2 1/4")	1
7	Cotter pin 5/32" x 1"	1
8	Flange bearing	2
9	Lift arm	2
10	Tube spacer	2
11	Hex bolt 5/8" x 4"	1
12	Flatwasher 11/16" hole	2
13	Bent retainer plate	2
14	Lockwasher 5/8"	1
15	Hex nut 5/8"	1
16	Pin (5/8" x 1 5/8")	1
17	Hair pin 3 mm x 65 mm	1
18	Plastic handle grip	1



MALE HITCH

REF	DESCRIPTION	QTY
1	Male hitch	1
2	Male hitch latch	1
3	Spring	1
4	Spring plate	1
5	Pin 1/4" x 1/4"	1
6	Cotter pin 3/32" x 3/4"	1
7	Attaching lever	1
8	Plastic handle	1
9	Flatwasher 9/16"	1
10	Cotter pin 1/8" x 1"	2
11	Hex bolt 3/8" x 1 1/2"	1
12	Nylon lock nut	1
13	Cotter pin 5/32" x 1"	1
14	Chain	1
15	Linch pin	1
16	Chain & pin assembly	1



GENERAL TORQUE SPECIFICATION TABLE (Revised 2-74)

USE THE FOLLOWING TORQUES WHEN **SPECIAL** TORQUES **ARE** NOT GIVEN

NOTE: These valuer apply to fasteners as received from supplier. dry, or when lubricated with normal engine oil. They do not apply ifspecial graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies 7 0 both UNF and UNC threads.

SEE Grade No.		2				6				8 *			
BOLT HEAD IDENTIFICATION MARKS AS PER GRADE NOTE: MANUFACTURING MARKS WILL VARY		Torque				Torque				Torque			
Bolt Size		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton Meters	
Inches	Millimeters	Min.	Mar.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42	47.5	57.0	45	54	61.0	73.2
7/16	11.11	30	25	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2	12.70	45	52	61.0	70.5	80	96	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358.0
3/4	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	160	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5
1-1/8	25.58	—		—		800	880	1084.8	1193.3	1280	1440	1735.7	1952.6
1-1/4	31.75	—		—		1120	1240	1518.7	1681.4	1820	2000	2467.9	2712.0
1-3/8	34.93	—		—		1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1-1/2	38.10	—		—		1940	2200	2630.6	2983.2	3160	3560	4285.0	4827.4

* Thick nuts must be used with Grade 8 bolts.

METRIC BOLT TORQUE SPECIFICATIONS

Size of screw	Grade No.	Coarse thread			Fine thread		
		Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
M6	4T (4)	1.0	3.6–5.8	4.9–7.9	—	—	—
	7T (7)		5.8–9.4	7.9–12.7		—	—
	8T (8) (11)		7.2–10	9.8–13.6		—	—
M8	4T	1.25	7.2–14	9.8–19	1.0	12–17	16.3–23
	7T		17–22	23–29.8		19–27	25.7–36.6
	8T		20–26	27.1–35.2		22–31	29.8–42
M10	4T	1.5	20–25	27.1–33.9	1.25	20–29	27.1–39.3
	7T		34–40	46.1–54.2		35–47	47.4–63.7
	8T		38–46	51.5–62.3		40–52	54.2–70.5
M12	4T	1.75	28–34	37.9–46.1	1.25	31–41	42–55.6
	7T		51–59	69.1–79.9		56–68	75.9–92.1
	8T		57–66	77.2–89.4		62–75	84–101.6
M14	4T	2.0	49–56	66.4–75.9	1.5	52–64	70.5–86.7
	7T		81–93	109.8–126		90–106	122–143.6
	8T		96–109	130.1–147.7		107–124	145–168
M16	4T	2.0	67–77	90.8–104.3	1.5	69–83	93.5–112.5
	7T		116–130	157.2–176.2		120–138	162.6–187
	8T		129–145	174.8–196.5		140–158	189.7–214.1
M18	4T	2.0	88–100	119.2–136	1.5	100–117	136–158.5
	7T		150–168	203.3–227.6		177–199	239.8–269.6
	8T		175–194	237.1–262.9		202–231	273.7–313
M20	4T	2.5	108–130	146.3–176.2	1.5	132–150	178.9–203.3
	7T		186–205	252–277.8		206–242	279.1–327.9
	8T		213–249	288.6–337.4		246–289	333.3–391.6

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. 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 Power Equipment Customer Service Department of American Honda Motor Co., Inc:

American Honda Motor Co., Inc.
Power Equipment Customer Service Department
4475 River Green Parkway
Duluth, Georgia 30136
Telephone: (404) 497-6400

We will need the following 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 satisfaction with your purchase.

For future reference, record your unit's model number, serial number and date of purchase in the spaces below. Refer to this information when ordering parts and when making technical or warranty inquiries.

Model: ___QH4000___ **Serial Number:** _____ **Date of Purchase:** _____