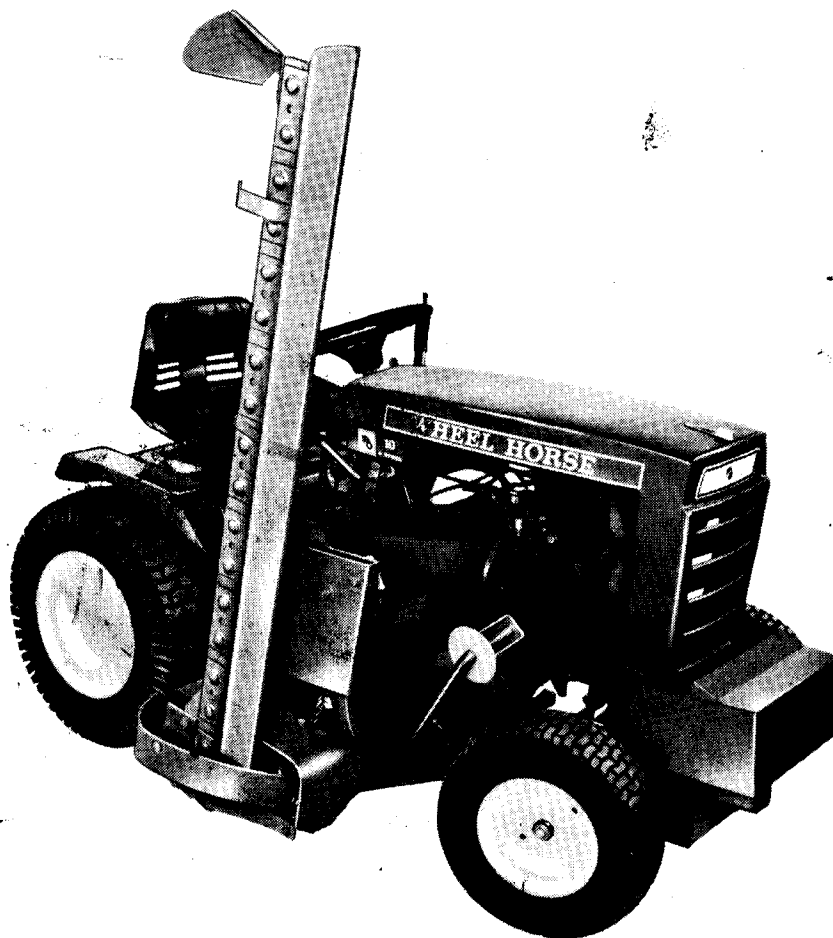




MODEL 414-A
SICKLE BAR MOWER
ATTACHMENT
for

WHEEL HORSE
'C' SERIES
TRACTORS

**OPERATION
&
SERVICE
MANUAL**
With Repair Parts List



**HABAN MANUFACTURING
COMPANY**
Racine, Wisconsin

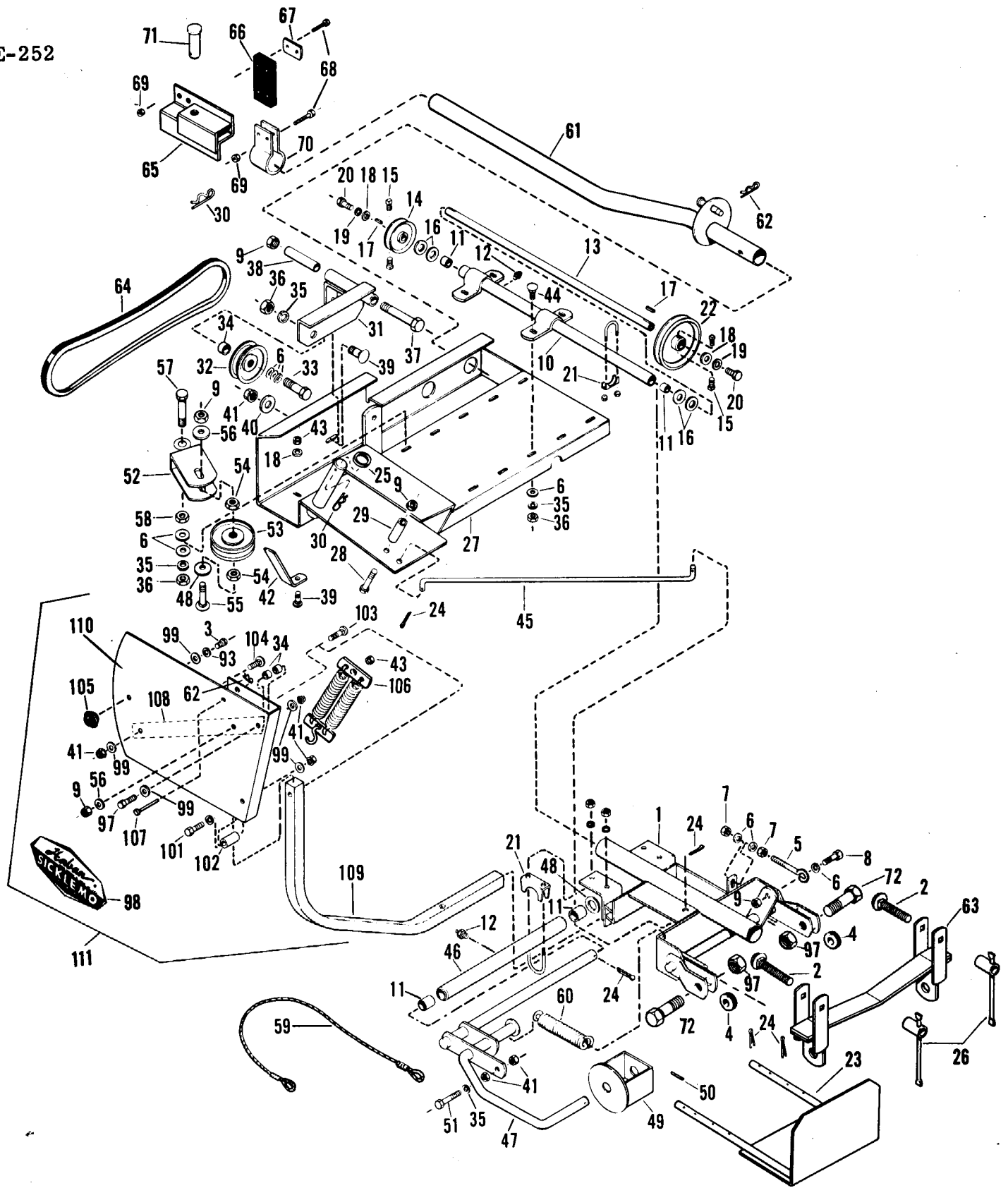
9599(6/1/74)



MAN BALK

HABAN MODEL 414A SICKLE BAR MOWER ATTACHMENT

E-252



MAAIBALK

HABAN MODEL 414A SICKLE BAR MOWER ATTACHMENT

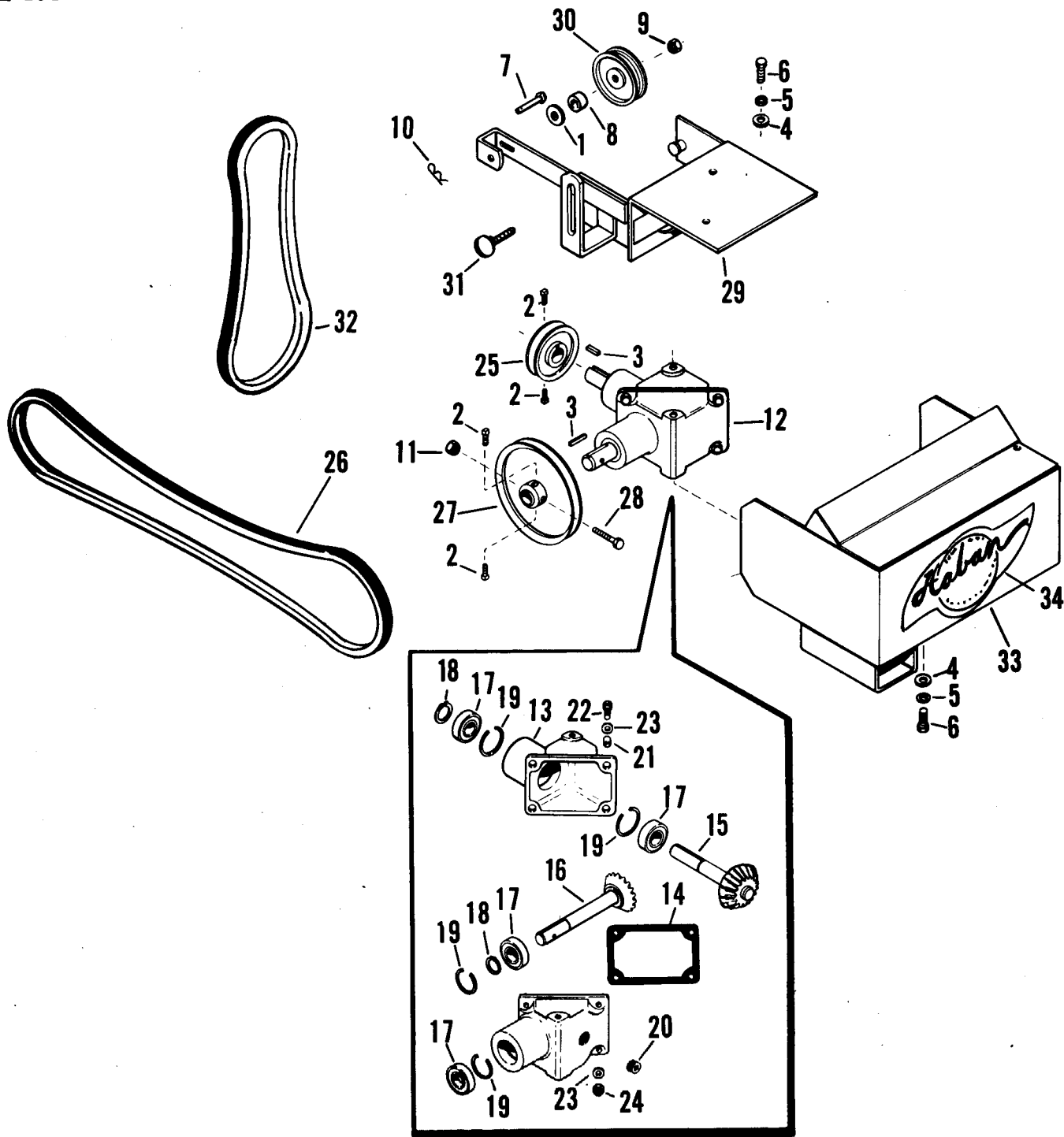
E-253

Ref. No.	Part No.	Description	No. Req.	Ref. No.	Part No.	Description	No. Req.
1	9401	Assy - Main Frame	1	45	9439	Rod - Stabilizer	1
2	GM120897	Bolt - 1/2-13 x 3 Carr.	2	46	9459	Assy - J'Shaft Housing & Bushings	1
3	GM180077	Bolt - 5/16-18 x 3/4 Hex Head	1	47	9461	Assy - Bracket Lift Arm	1
4	4363	Washer - Rubber	2	48	GM456151	Washer - 3/4 Flat (13/16 x 1-1/2)	2
5	3058	Eye Bolt	1	49	9607	Pedal - Lift	1
6	GM120396	Washer - 1/2 Flat (17/32 x 1-1/16)	9	50	GM455481	Pin	1
7	GM120377	Nut - 3/8-16 Lt. Hex.	2	51	GM180128	Bolt - 3/8-16 x 1-3/4 Hex Head	1
8	GM180175	Bolt - 1/2-13 x 1-1/4 Hex Head	1	52	9467	Assy - Clevis Bracket	1
9	GM9414074	Nut - 1/2-13 Hex Lock	6	53	3631	Assy - Pulley & Bearing	1
10	9417	Assy - J'Shaft Housing	1	54	GM124847	Nut - 5/8-11 Half Hex.	2
11	3034	Bushing	4	55	GM126509	Bolt - 1/2-13 x 2-1/4 Carr.	1
12	5074	Fitting - Grease	2	56	GM120390	Washer - 1/2 Flat (9/16 x 1-3/8)	2
13	9420	Jackshaft	1	57	GM180183	Bolt - 1/2-13 x 2-1/4 Hex Head	1
14	3970	Assy - Pulley & Hub (Hub out)	1	58	GM120238	Nut - 1/2-13 Lt. Half Hex	1
15	GM142671	Screw - Set (5/16-18 x 1/2 Sq. Head)	4	59	9470	Wire Rope Assy.	1
16	3396	Washer - 3/4 Flat (49/64 x 1-1/2)	4	60	3434	Spring	1
17	3259	Key	2	61	9560	Assy - Pipe Pivot	1
18	GM120388	Washer - 3/8 Flat (7/16 x 1)	3	62	3090	Pin - Hair Cotter	2
19	GM120382	Washer - 3/8 Med. Lock	2	63	9556	Assy - Axle Bracket	1
20	GM180122	Bolt - 3/8-16 x 1 Hx. Hd.	2	64	9527	V-Belt	1
21	5339	U-Clamp Assembly- Nuts	3	65	9596	Assy - Drawbar Hitch	1
22	3035	Assy - Pulley & Hub (Hub out)	1	66	3977	Absorber - Shock	1
23	9019	Assy - Pulley Guard	1	67	3978	Clamp	1
24	GM120123	Pin - Cotter (1/8 x 1-1/4)	7	68	GM180024	Bolt - 1/4-20 x 1-1/4 Hex Head	4
25	4143	Washer - 1-1/64 x 1-1/2 x 1/8 Flat	1	69	4119	Nut - 1/4-20 Hex Lock	4
26	7827	Assy - Wing Nut	2	70	3976	Clamp	1
27	9424	Assy - Plate Pivot	1	71	3433	Pin - Clevis	1
28	GM180190	Bolt - 1/2-13 x 3 Hex Head	1	72	GM271725	Bolt - 5/8-11 x 2-1/2 Hex	2
29	3554	Spacer	1	93	GM120214	Washer - 5/16 Med. Lock	1
30	3341	Pin - Hair Cotter	2	97	GM9414075	Nut - 5/8-11 Hex Lock	2
31	9432	Assy - Idler Bracket	1	98	5543	Decal	1
32	3042	Assy - Idler Pulley	1	99	GM446363	Washer - 5/16 Flat (3/8 x 7/8)	6
33	GM180181	Bolt - 1/2-13 x 2 Hx. Hd.	1	101	GM180130	Bolt - 3/8-16 x 2 Hx. Hd.	1
34	3346	Spacer	3	102	S-325	Spacer	1
35	GM120384	Washer - 1/2 Med. Lock	7	103	GM126504	Bolt - 1/2-13 x 2 Carr.	1
36	GM120378	Nut - 1/2-13 Lt. Hex.	6	104	GM126227	Bolt - 3/8-16 x 3/4 Carr.	1
37	GM445608	Bolt - 1/2-13 x 5-1/2 Hex Head	1	105	3068	Knob	1
38	9430	Spacer	1	106	9656	Assy - Lift & Springs	1
39	GM120915	Bolt - 3/8-16 x 1 Carr.	2	107	4001	Pin - Clevis	1
40	4506	Washer - 13/32 Flat (13/32 x 1-1/2)	1	108	9519	Strap - Reinforcement	1
41	GM271190	Nut & L'Washer Assy- 3/8-16 Hex	6	109	9517	Bar - Carrier	1
42	9138	Bracket	1	110	9661	Shield - Carrier	1
43	GM9413534	Nut - 3/8-16 Hex. Lock	2	111	9662	Assy - Carrier Bar (Comp)	1
44	GM126485	Bolt - 1/2-13 x 1-1/4 Carr.	4		9599	Owner's Manual	1

(Serial #202, 710 & up-)

MAI BALK

E-254



HABAN MODEL 414A SICKLE BAR MOWER ATTACHMENT

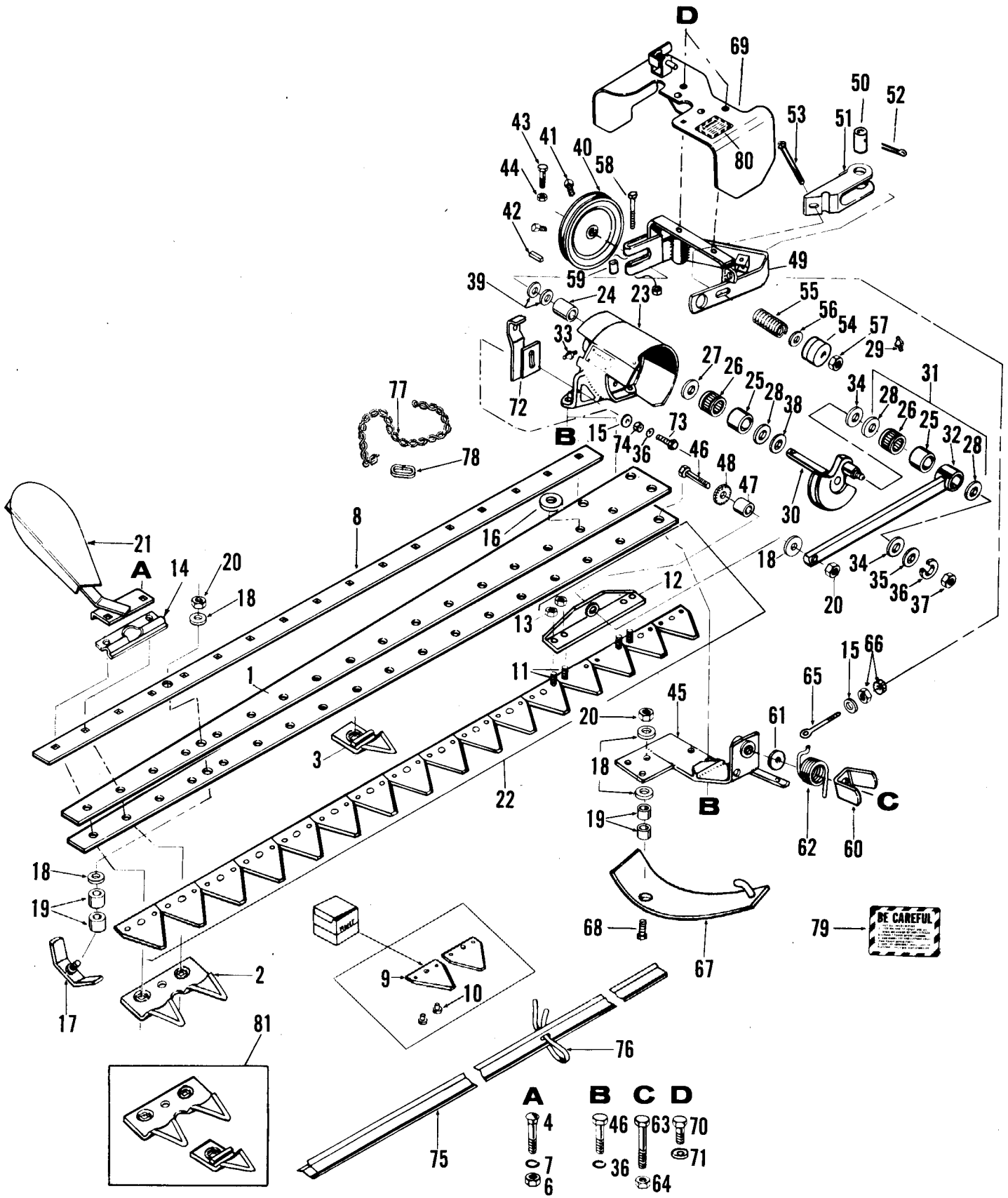
E-255

Ref. No.	Part No.	Description	No. Req.	Ref. No.	Part No.	Description	No. Req.
1	GM120390	Washer - 1/2 Flat (9/16 x 1-3/8)	1	19	4610	Ring - Snap	4
2	GM142671	Screw - Set (5/16-18 x 1/2 Square Head)	4	20	7091	Plug - Pipe	2
3	3259	Key	2	21	4606	Bushing	4
4	GM120388	Washer - 3/8 Flat (7/16 x 1)	4	22	GM180081	Bolt - 5/16-18 x 1-1/4 Hex Head	4
5	GM120382	Washer - 3/8 Med. Lock	4	23	GM120386	Washer - 1/4 Flat (5/16 x 3/4)	8
6	GM180122	Bolt - 3/8-16 x 1 Hex. Hd.	4	24	GM271184	Nut & L'Washer Assy - 5/16-18 Hex.	4
7	5715	Pin - Clevis	1	25	4469	Assy - Pulley & Hub	1
8	1094	Spacer	1	26	3749	V-Belt - Long	1
9	GM9414074	Nut - 1/2-13 Hex Lock	1	27	4638	Assy - Pulley & Hub	1
10	3430	Pin - 3/32 x 1-5/8	1	28	GM180042	Bolt - 1/4-20 x 1-3/4 Hex Head	1
11	4119	Nut - 1/4-20 Hex. Lock	1	29	9601	Assy - Gearbox Mtg.	1
12	4612	Assy - Gearbox	1	30	3042	Assy - Idler Pulley	1
13	4607	Gearbox - Right Angle	2	31	GM126499	Bolt - 1/2-13 x 1-3/4 Carr.	1
14	4608	Gasket - Gearbox	1	32	9526	V-Belt - Short	1
15	4586	Assy - Shaft & Gear	1	33	9660	Assy - Gearbox Cover	1
16	4587	Assy - Shaft & Pinion	1	34	S-148	Decal	1
17	4611	Bearing	4				
18	4609	Ring - Snap	2				

(Serial #202, 710 & up-)

MAAT BALK

HABAN MODEL 414A SICKLE BAR MOWER ATTACHMENT



E258(6/22/74)

MAAIBALK

HABAN MODEL 414A SICKLE BAR MOWER ATTACHMENT

Ref. No.	Part No.	Description	No. Req.	Ref. No.	Part No.	Description	No. Req.
1	9614	Assy - Sickle Bar	2	42	3259	Key	1
2	6732	Finger - Shear	8	43	*GM180042	Bolt - 1/4-20 x 1-3/4 Hx. Hd.	1
3	9654	Assy - Shear Finger	1	44	4119	Nut - 1/4-20 Hex. Lock	1
4	*GM126452	Bolt - 7/16-14 x 1-1/2 Carr.	17	45	9474	Assy - Sickle Mtg. Bracket	1
6	*GM271501	Nut - 7/16-14 Lt. Hex	17	46	*GM180179	Bolt - 1/2-13 x 1-3/4 Hx. Hd.	4
7	*GM120383	Washer - 7/16 Med. Lock	15	47	1094	Spacer	1
8	8996	Plate - Wear	1	48	*GM138549	Washer - 1/2 Shakeproof Lock	1
9	8030	Knife Kit - Box of 25	1	49	9482	Assy - Breakaway Bracket	1
10	8163	Box of Rivets	1	50	9489	Spacer	1
11	8904	Bolt	4	51	3562	Latch	1
12	8916	Assy - Knife Head	1	52	*GM120123	Pin - Cotter (1/8 x 1-1/4)	1
13	8928	Nut	4	53	8133	Bolt	1
14	3598-A	Clip - Knife	5	54	9394	Cap Plug	1
15	*GM120388	Washer - 3/8 Flat (7/16 x 1)	11	55	9396	Spring - Breakaway	1
16	*GM120389	Washer - 7/16 Flat (1/2 x 1-1/4)	1	56	4506	Washer - 13/32 Flat (13/32 x 1-1/2)	1
17	5571	Assy - Outer Shoe	1	57	*GM9413534	Nut - 3/8-16 Hex. Lock	1
18	*GM120396	Washer - 1/2 Flat (17/32 x 1-1/16)	5	58	*GM180192	Bolt - 1/2-13 x 3-1/2 Hx. Hd.	1
19	3346	Spacer	6	59	3825	Spacer	1
20	*GM9414074	Nut - 1/2-13 Hex. Lock	4	60	4645	Retainer	1
21	4648	Assy - Grass Divider Board	1	61	9504	Spacer	1
22	8913	Sickle Knife Repair Kit	1	62	4655	Spring - Torsion	1
23	4707	Assy - Flywheel Housing	1	63	*GM271724	Bolt - 5/8-11 x 2-1/4 Hx. Hd.	1
24	3034	Bushing	1	64	*GM124847	Nut - 5/8-11 Half Hex.	1
25	4683	Race - Bearing	2	65	3955	Eye Bolt	1
26	4684	Bearing - Roller	2	66	*GM120377	Nut - 5/16-18 Lt. Hex	2
27	4653	Washer - 15/16 x 1-5/16	1	67	9509	Assy - Inner Skid Shoe	1
28	4656	Seal - Bearing Oil	3	68	*GM180190	Bolt - 1/2-13 x 3 Hex Hd.	1
29	4123	Fitting - Grease	1	69	7820	Assy - Housing Stop & Quick Pin	1
30	4641	Assy - Crankshaft	1	70	*GM180120	Bolt - 3/8-16 x 3/4 Hex Hd.	2
31	4685	Assy - Pitman & Bearings	1	71	*GM120382	Washer - 3/8 Med. Lock	2
32	4629	Assy - Pitman	1	72	9496	Assy - Vertical Position Stop	1
33	5074	Fitting - Grease	1	73	*GM180128	Bolt - 3/8-16 x 1-3/4 Hex	1
34	4654	Washer - 15/16 x 1-1/2	2	74	*GM271190	Nut & Lock Washer Assy - 3/8-16 Hex.	1
35	*GM120390	Washer - 1/2 Flat (9/16 x 1-3/8)	1	75	4690	Guard - Sickle	1
36	*GM120384	Washer - 1/2 Med. Lock	5	76	4686	Assy - Guard Strap	1
37	*GM124934	Nut - 1/2-20 Half Hex.	1	77	9495	Chain - Transport	1
38	4719	Washer - 15/16 x 2	1	78	3436	Anchor - Chain	1
39	3396	Washer - 3/4 Flat (49/64 x 1-1/2)	AR	79	S-820	Decal - Caution	1
40	4638	Assy - Pulley & Hub (Hub Out)	1	80	6625	Decal - Caution	1
41	*GM142671	Screw - Set 5/16-18 x 1/2 Sq. Hd.	2	81	9281	Shear Finger Kit (8 dbl. 1 sngl)	1

E259(6/22/740

(Serial #202, 710 & sup-)