

# **PARTS MANUAL**

## ***BALE KING V-RAKE***

***VR1214***



# **BRIDGEVIEW**

**MANUFACTURED BY:** BRIDGEVIEW MANUFACTURING INC.

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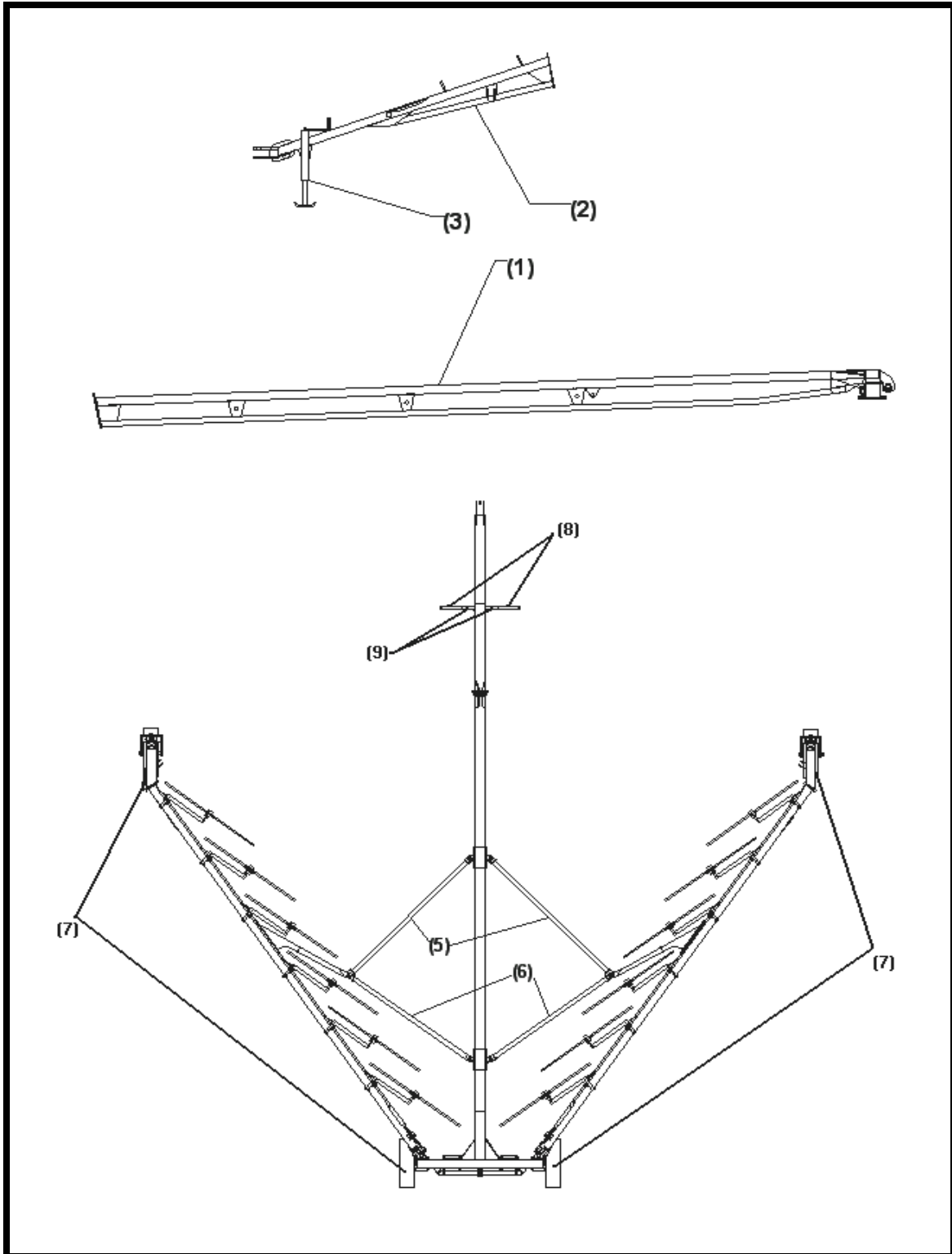
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# MAIN FRAME, WHEELS, SCISSOR ARMS AND TRANSPORT LINKS

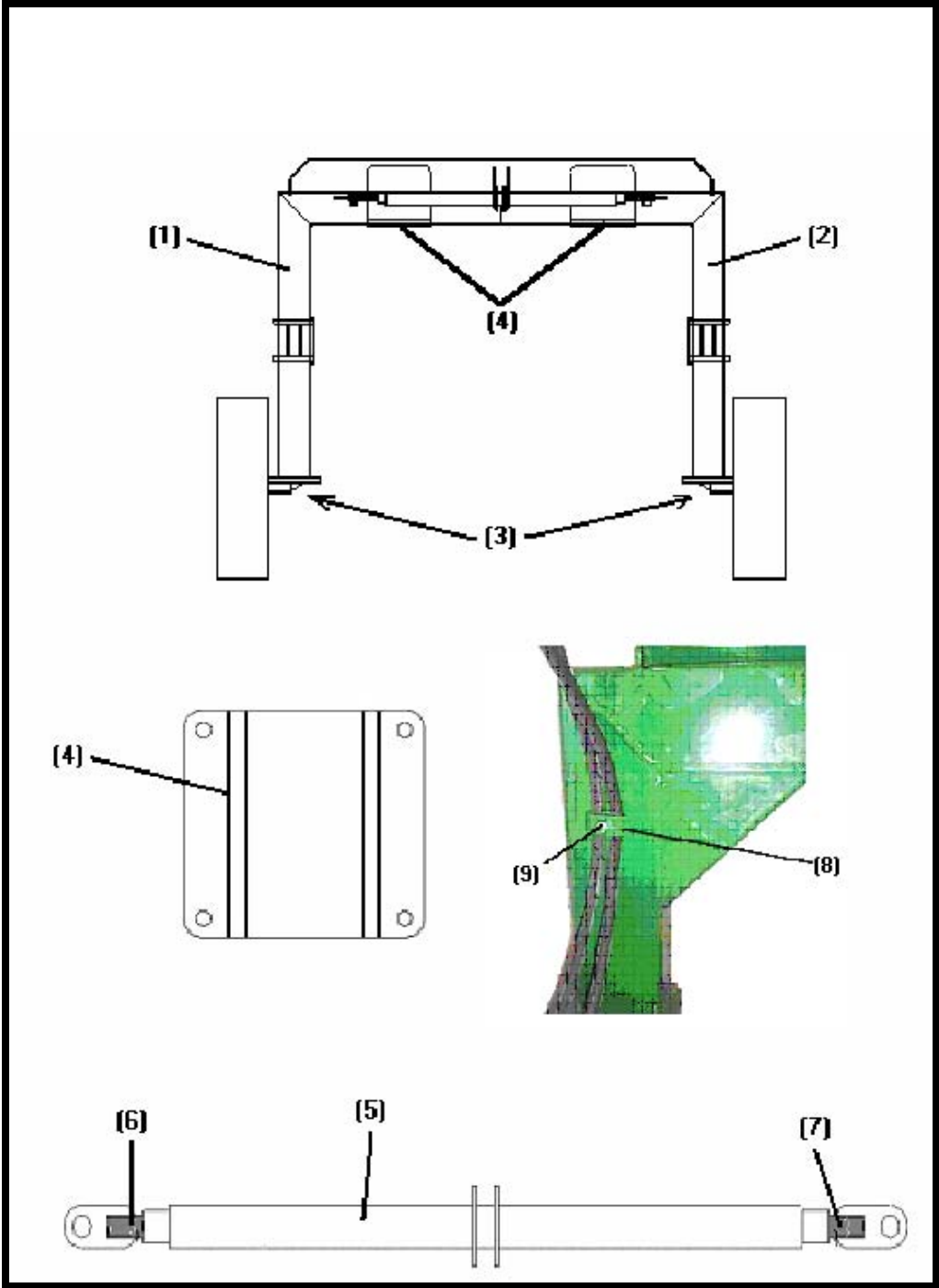


# MAIN FRAME, WHEELS, SCISSOR ARMS AND TRANSPORT LINKS

## PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16103	Main Hitch Beam	1
2	16102	Gooseneck (Serial# VR2569 and below)	1
	16532	Gooseneck (Serial# VR2570 and above)	1
Not Shown	14467	5/8" x 1 3/4" NC Bolt	9
Not Shown	11614	5/8" NC Serrated Flange Nut	9
3	14408	Telescoping Jack	1
Not Shown	11785	Jack Pin (w/ hairpin)	1
5	16123	Front Scissor Arm	2
6	16124	Rear Scissor Arm	2
7	16077	Wheel Assembly	4
Not Shown	16078	Tire	4
Not Shown	16079	Rim, Yellow	4
Not Shown	16333	VR1214 Decal kit	1
Not Shown	16424	Decal – Bale King	2
Not Shown	16425	Decal – VR1214	2
Not Shown	16426	Front Left Decal - /////	1
Not Shown	16427	Front Right Decal - \\\\\\\	1
Not Shown	16428	Rear Left Decal - \\\\\\\	1
Not Shown	16429	Rear Right Decal - /////	1
8	16528	Transport Link Slide	2
9	16530	Transport Link Sleeve	2
Not Shown	16339	Transport Link Pins (w/ hairpins)	6
Not Shown	16526	Transport Link Mount (Serial# VR2539 and below)	1
Not Shown	16531	Transport Link Mount U-bolt	2
Not Shown	10271	3/8" NC Serrated Flange Nut	4

# REAR FRAME ASSEMBLY

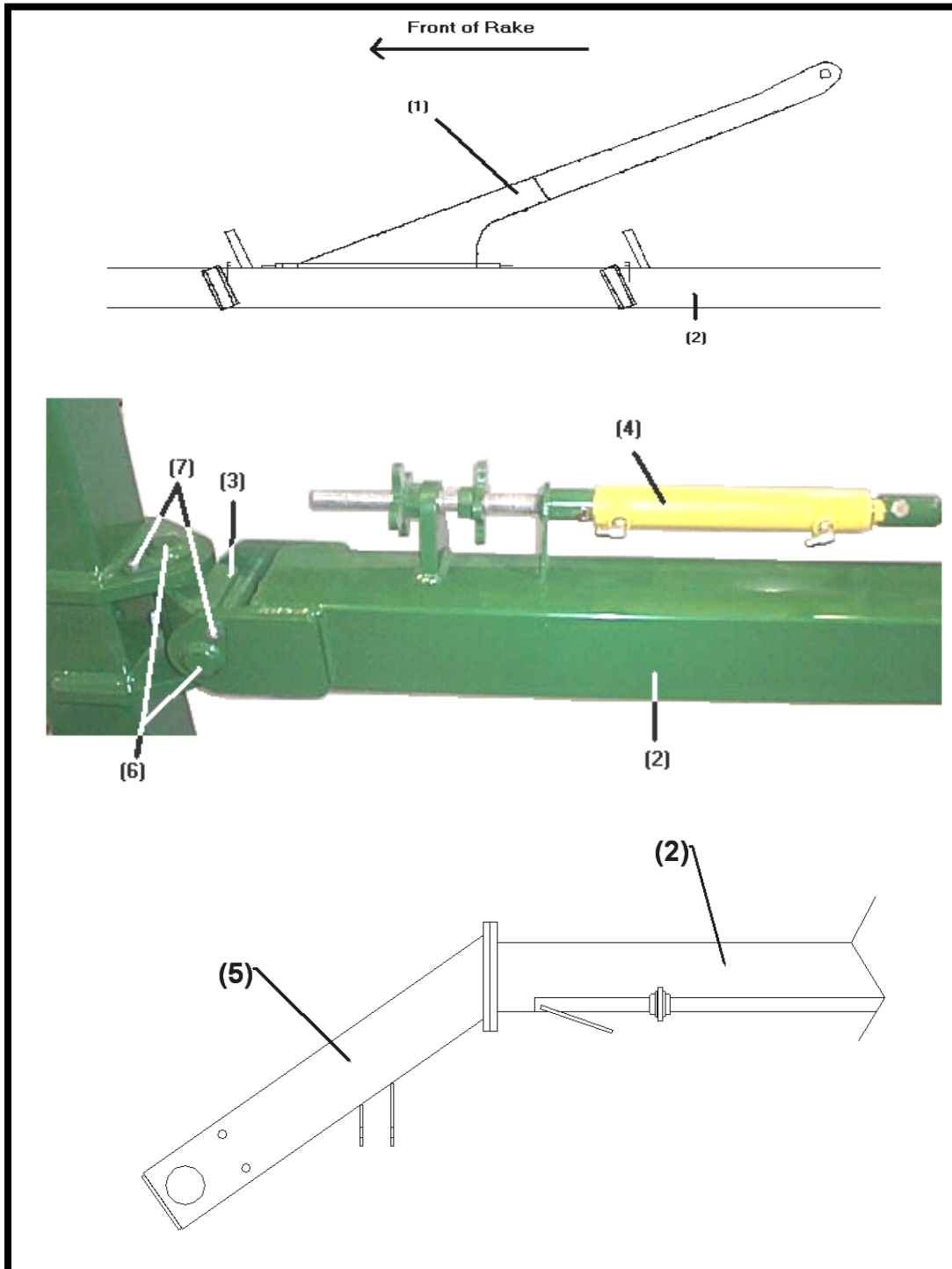


# REAR FRAME ASSEMBLY

## PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16104	Left Rear Frame	1
2	16105	Right Rear Frame	1
3	16129	Rear Axle Mount	2
Not Shown	14467	5/8" x 1 3/4" NC Bolt	8
Not Shown	11614	5/8" NC Serrated Flange Nut	8
4	16142	Rear Frame Clamp Plate	2
Not Shown	14467	5/8" x 1 3/4" NC Bolt	8
Not Shown	13792	5/8" Lock Washer	8
Not Shown	10176	5/8" NC Nut	8
5	16141	Main Ratchet Jack Body	1
6	16487	Left Ratchet Jack Rod	1
7	16488	Right Ratchet Jack Body	1
Not Shown	16489	Ratchet Jack Pin	2
Not Shown	10580	1/4" X 2" Cotter Pin	2
8	16490	Hose Clip	2
9	13802	3/8" NC Locknut	2

# RAKE ARM ASSEMBLY

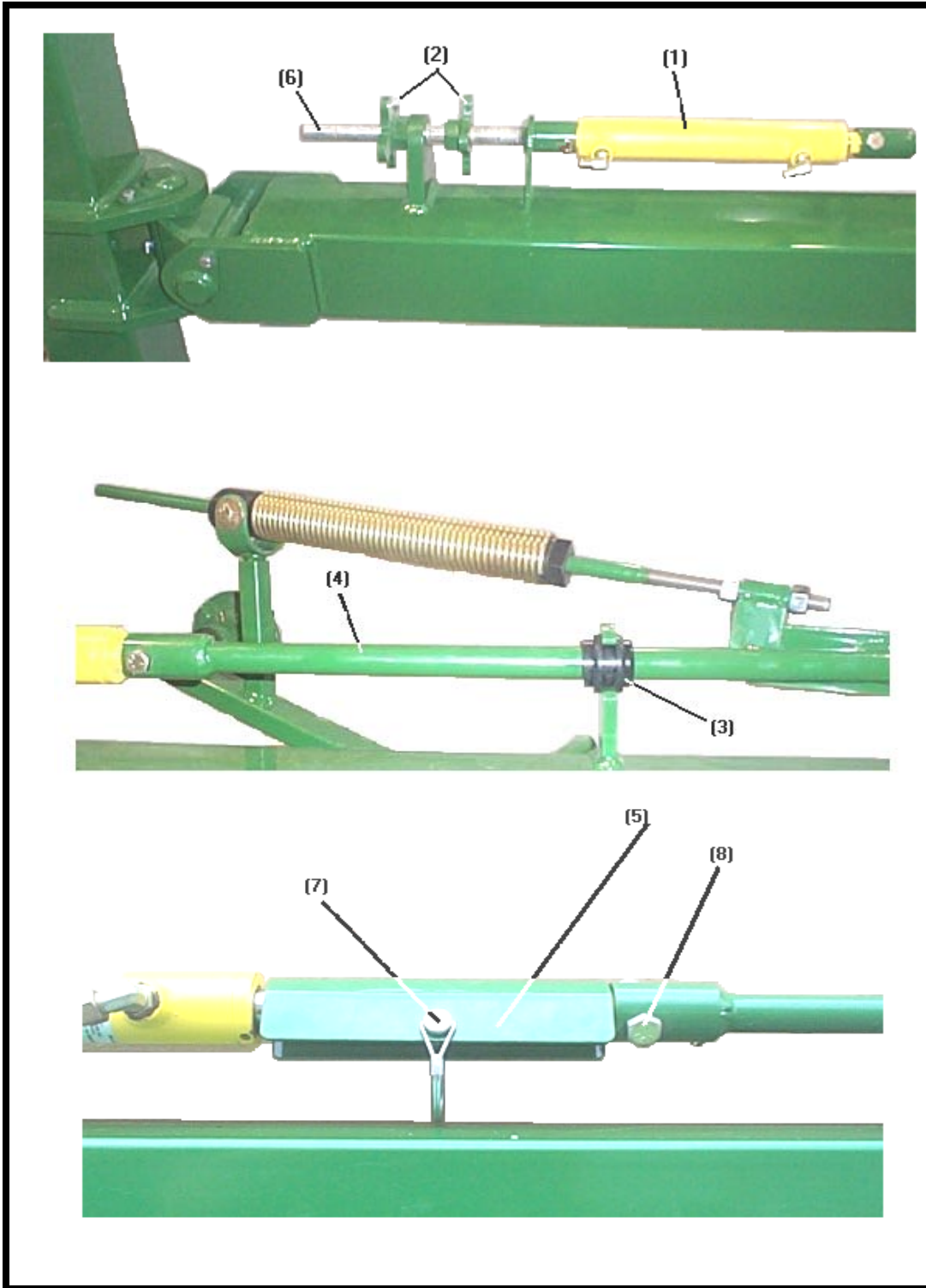


# RAKE ARM ASSEMBLY

## PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16120	Left Riser Arm	1
	16121	Right Riser Arm	1
Not Shown	16650	Riser Arm Pin Washer	4
Not Shown	16122	Riser Arm Pin	2
Not Shown	16091	Riser Arm U-Bolt	4
Not Shown	16076	3/4" Serrated Flange Nut	8
2	16106	Left Rake Arm (Serial# VR2569 and below)	1
	16538	Left Rake Arm (Serial# VR2570 and above)	1
	16107	Right Rake Arm (Serial# VR2569 and below)	1
	16539	Right Rake Arm (Serial# VR2570 and above)	1
3	16130	Knuckle (Left)	1
	16661	Knuckle (Right)	1
4		Lift Rod Assembly (Page 8)	2
5	16110	Left wrap around castor mount	1
	16111	Right wrap around castor mount	1
Not Shown	14467	5/8" x 1 3/4" NC Bolt	12
Not Shown	11614	5/8" NC Serrated Flange Nut	12
6	16131	Knuckle Pin	4
7	13803	3/8" x 1 1/2" NC Bolt	4
Not Shown	13802	3/8" NC Locknut	4
Not Shown	10580	1/4" x 2" Roll Pin	4
Not Shown	16389	Self Tapping Grease Zerk (90°)	4
Not Shown	16364	Self Tapping Grease Zerk	12

# LIFT ROD ASSEMBLY

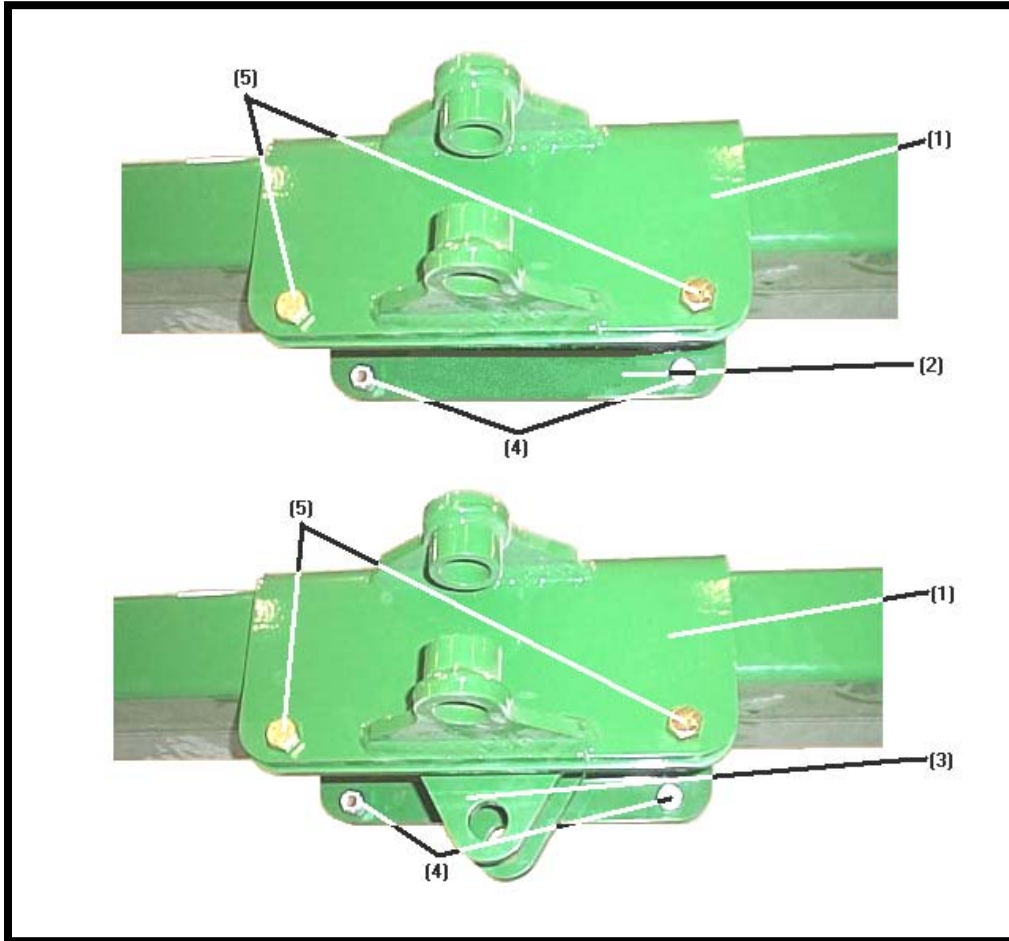


# LIFT ROD ASSEMBLY

## PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	10317	Hydraulic Cylinder-Lift Rod (Page 23)	2
2	16133	Adjuster Nut	4
3	16099	Lift Rod Bushing	12
4	16112	Main Lift Rod	2
5	16497	Cylinder Safety Lock	2
6	16134	Left Threaded Rod (Left Assembly)	1
	16483	Right Threaded Rod (Right Assembly)	1
7	12050	Tension PTO Clip	2
8	13805	1/2" x 2 1/4" NC Bolt	4
Not Shown	14443	1/2" NC Locknut	4

## FRAME SLIDES (FRONT AND REAR)

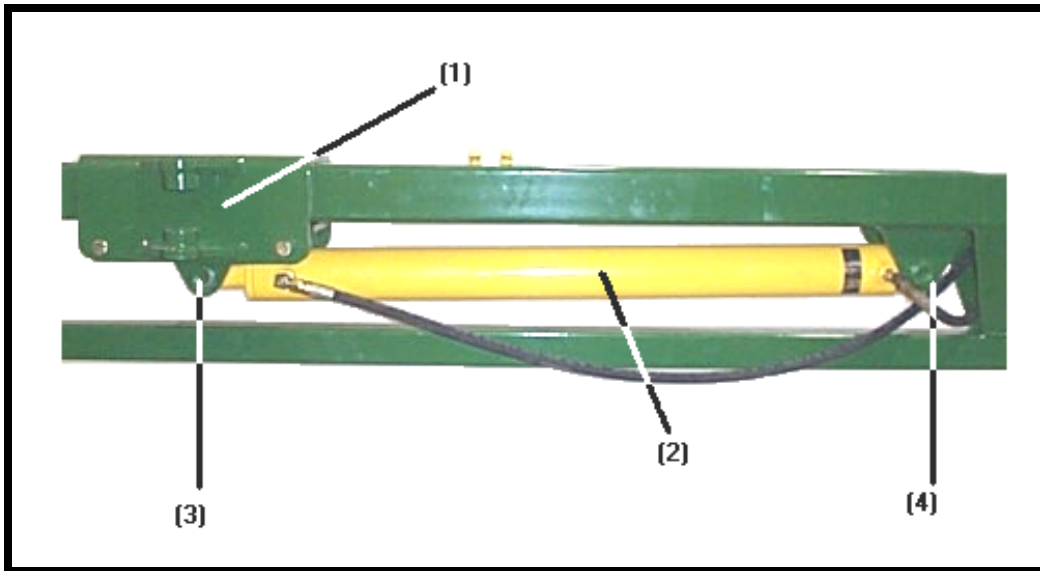


## FRAME SLIDES (FRONT AND REAR)

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16116	Slide Top Plate	2
2	16117	Front Slide Bottom Plate	1
3	16118	Rear Slide Bottom Plate	1
4	14443	1/2" NC Locknut	8
5	14461	1/2" x 1 1/2" Bolt	8
Not Shown	16119	Slide Pins	4
Not Shown	10580	1/4" x 2" Roll Pin	4

## REAR SLIDE ASSEMBLY

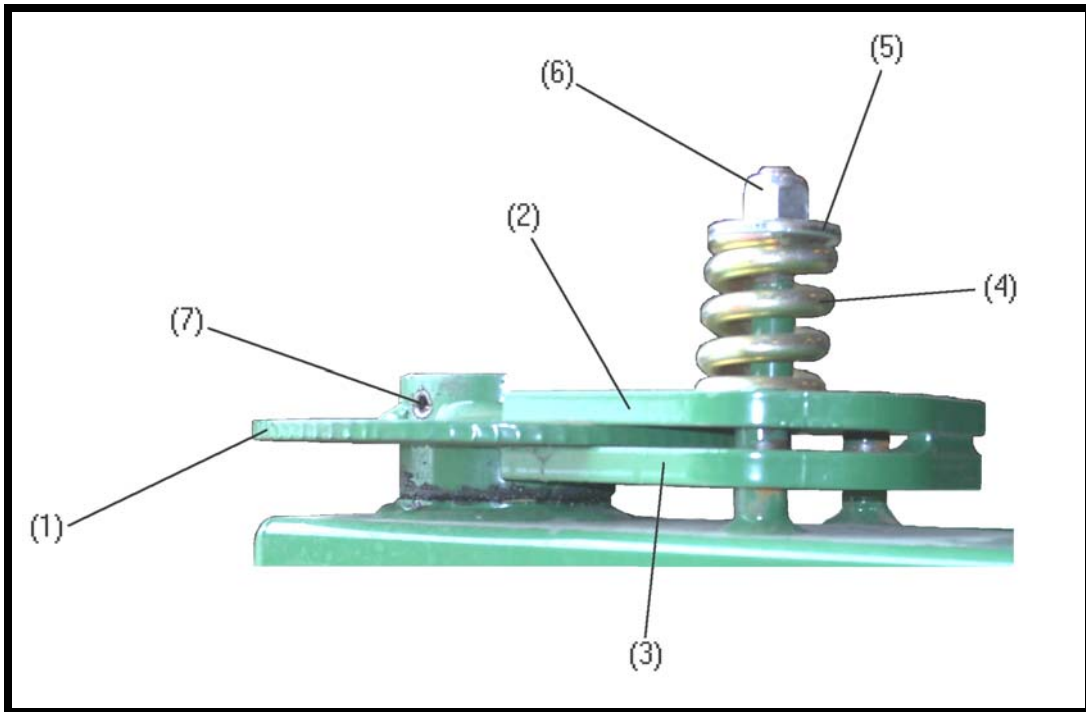


## REAR SLIDE ASSEMBLY

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1		Rear Slide (Page 5)	1
2	16301	Hydraulic Cylinder - Main (Page 22)	1
3	16140	Ram End Cylinder Pin	1
4	16139	Butt End Cylinder Pin	1
Not Shown	10580	1/4" x 2" Cotter Pin	2

## CASTER BRAKE ASSEMBLY

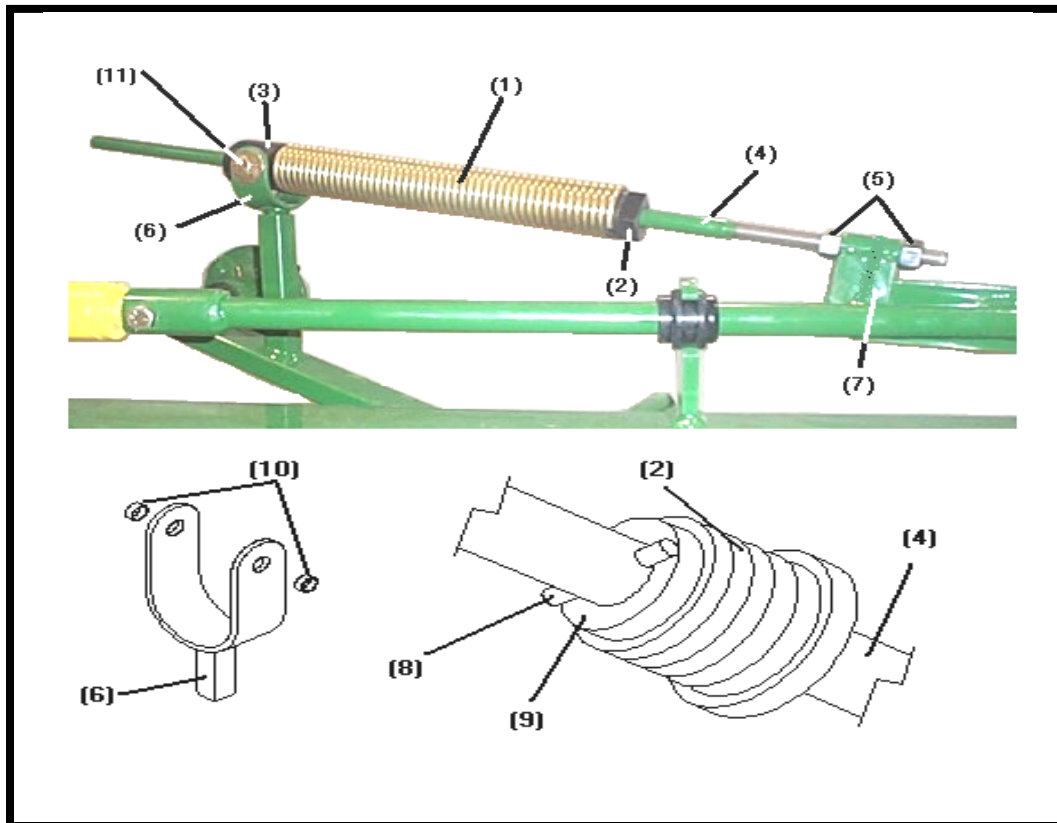


## CASTER BRAKE ASSEMBLY

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16136	Brake Disk	2
2	16137	Top Brake Pad	2
3	16138	Bottom Brake Pad	2
4	16093	Brake Spring	2
5	13790	1/2" Flat Washer	2
6	14443	1/2" NC Locknut	2
7	10302	3/16" x 1 1/4" Roll Pin	2

## RAKE WHEEL SPRING ASSEMBLY

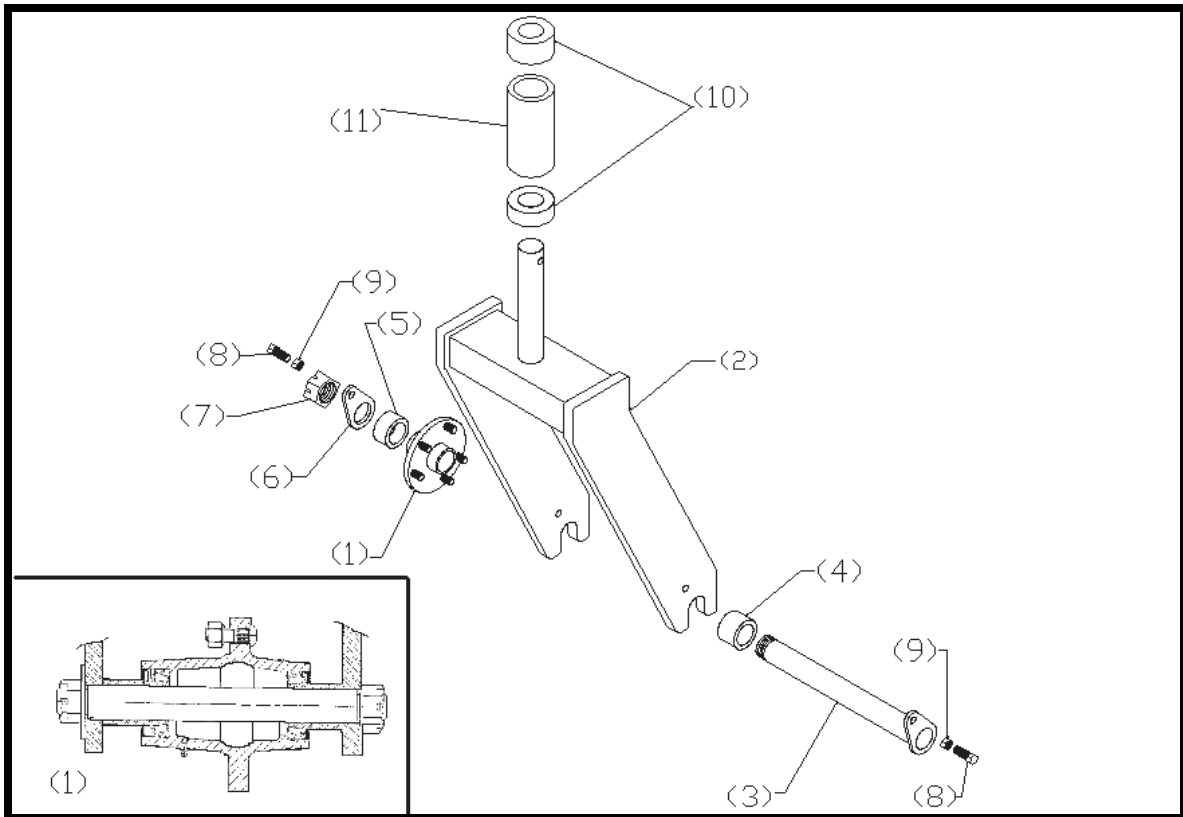


## RAKE WHEEL SPRING ASSEMBLY

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16095	Spring	12
2	16100	Pull Spring Retainer Guide	12
3	16101	Pull Spring Guide Pivot	12
4	16493	Spring Rod	12
5	10176	5/8" NC Nut	24
6	16494	Spring Yoke	12
7	16495	Spring Assembly Clevis	12
8	10302	Roll Pin 3/8" x 1 1/4"	24
9	16652	Spring Slide Rod Washer	24
10	16290	Spring Pivot Bushing	24
11	14460	1/2" x 1" NC Bolt	24
Not Shown	14638	1/2" x 1 3/4" NC Bolt	12
Not Shown	14443	1/2" NC Locknut	12
Not Shown	13790	1/2" Flat Washer	24

## CASTER ASSEMBLY

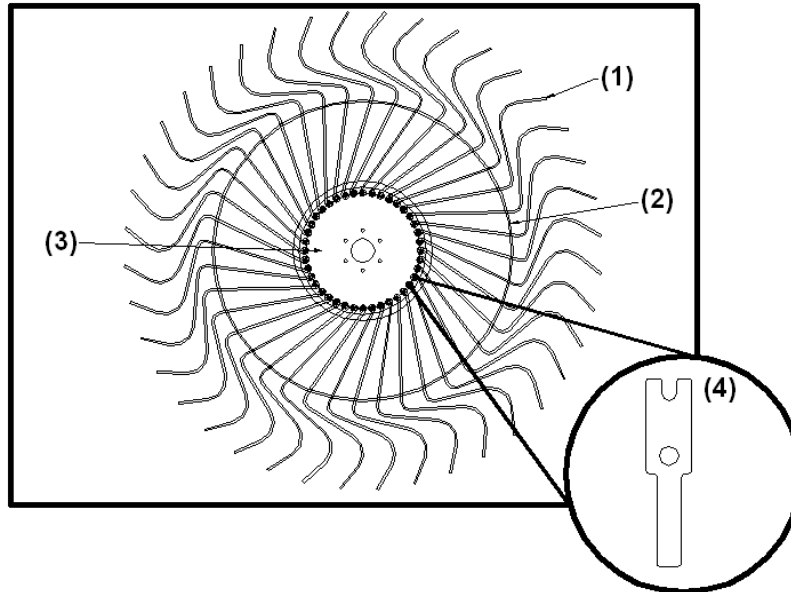


## CASTER ASSEMBLY

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1		Caster Hub Assembly (Page 18)	2
2	16114	Caster Forks	2
3	16135	Caster Axle	2
4	16486	Caster Axle Spacer B	2
5	16485	Caster Axle Spacer A	2
6	16144	Caster Axle Hanger	2
7	16087	1 1/4" NF Castle Nut	2
8	16040	3/8" x 1 3/4" NC Bolt	4
9	13802	3/8" NC Locknut	4
Not Shown	16097	Caster Wheel Pivot Bushing	4
Not Shown	16404	Caster Pivot Bushing Spacer	2
Not Shown	16364	Self Tapping Grease Zerk	2
Not Shown	10302	3/16" x 1 1/4" Roll Pin	2

## RAKE WHEEL ASSEMBLY

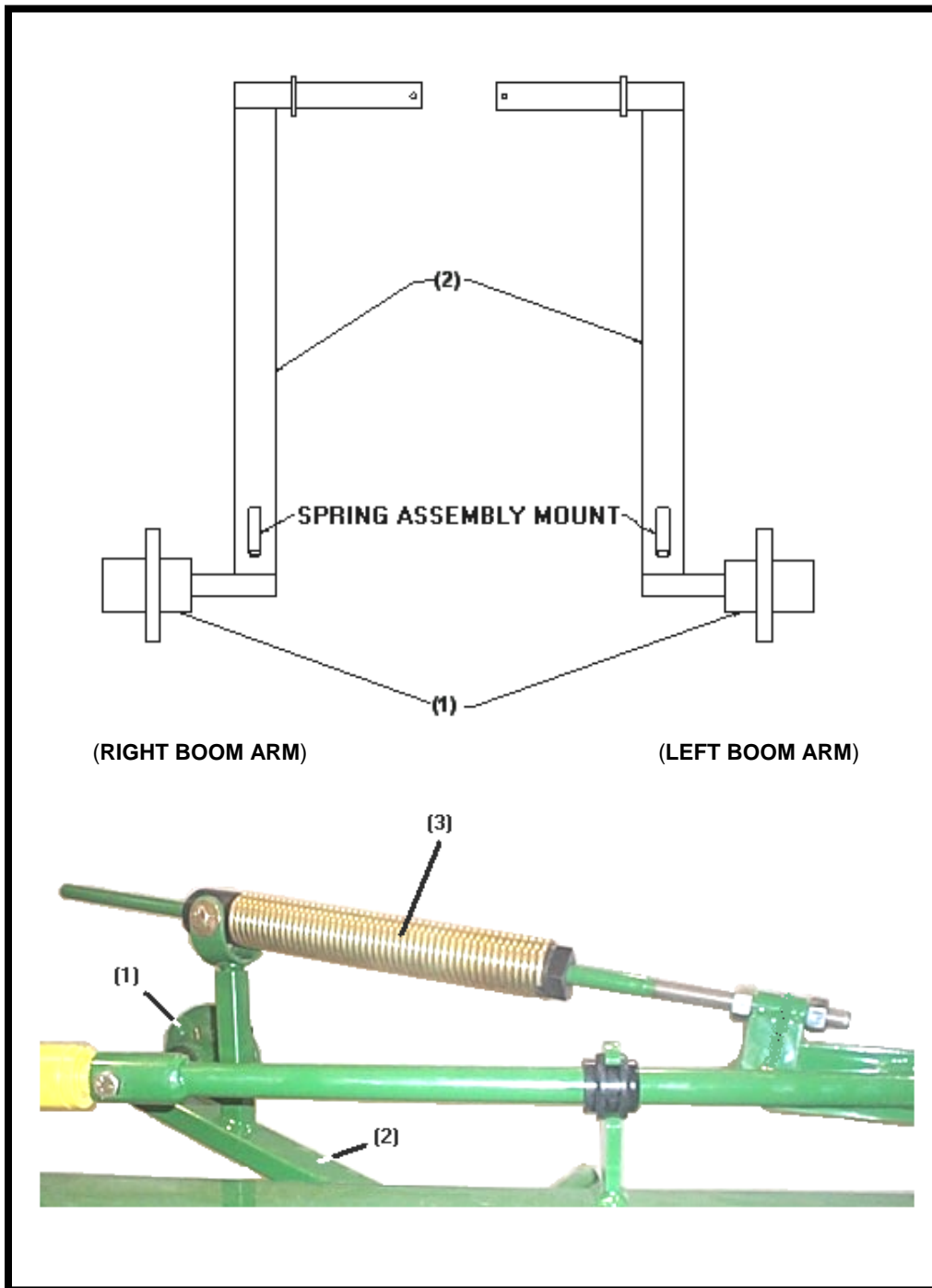


## RAKE WHEEL ASSEMBLY

### PARTS LIST

<u>UURef#</u>	<u>BMI#</u>	<u>Description</u>	
<u>Qty.</u>			
	16173	Left Rake Wheel (Serial # VR2569 and below)	6
	16766	Left Rake Wheel (Serial # VR2570 and above)	6
	16174	Right Rake Wheel (Serial #VR2569 and below)	6
	16767	Right Rake Wheel (Serial #VR2570 and above)	6
1	16092	Tines	480
2	16222	Outer Ring (Serial # VR2569 and below)	12
	16788	Outer Ring (Serial # VR2570 and above)	12
3	16498	Center Disk (Serial # VR2569 and below)	12
	16789	Center Disk (Serial # VR2570 and above)	12
Not Shown	13802	3/8" NC Locknut	480
Not Shown	16388	3/8" x 1 1/4" NC Carriage Bolt (Serial # VR 2569 and below)	480
Not Shown		3/8" x (Serial # VR 2570 and above)	480
4	16499	Tooth clip (Serial # VR 2569 and below)	480

# RAKE WHEEL ARM ASSEMBLY

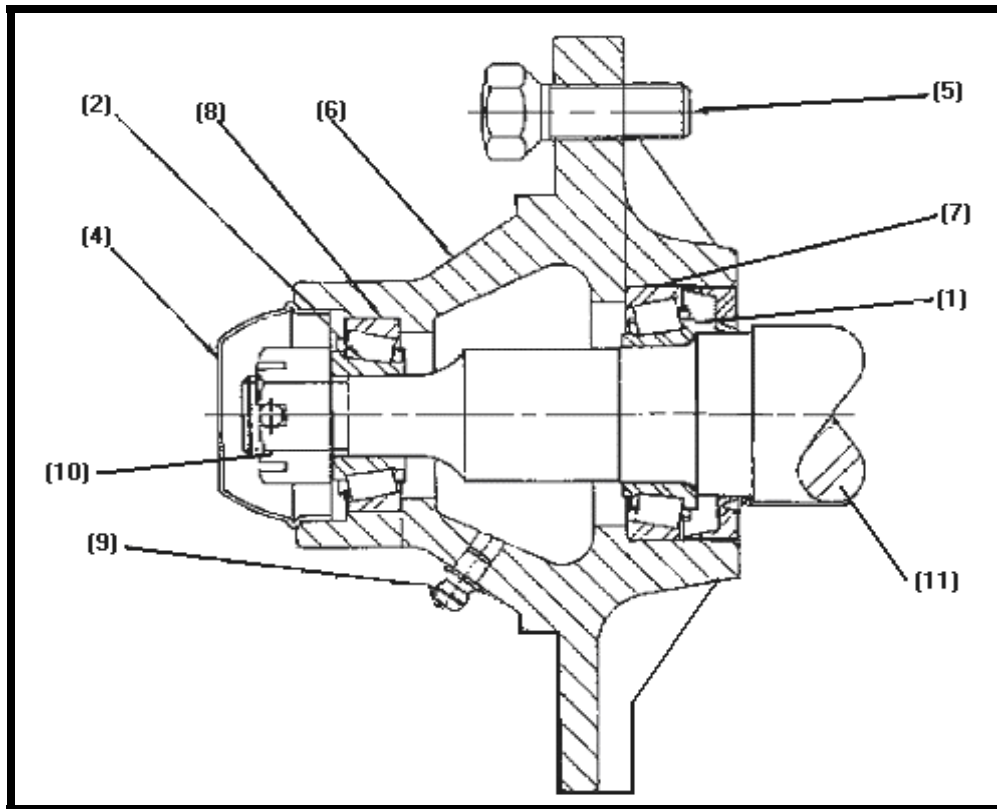


# RAKE WHEEL ARM ASSEMBLY

## PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1		Rake Wheel Arm Hub Assembly (Page 21)	12
2	16125	Left Rake Wheel Arm	6
	16126	Right Rake Wheel Arm	6
3		Rake Wheel Spring Assembly (Page 16)	12
Not Shown	16651	Rake Wheel Arm Washer	12
Not Shown	15872	1/4" x 2" Roll Pin	12

## HUB ASSEMBLY (REAR FRAME)

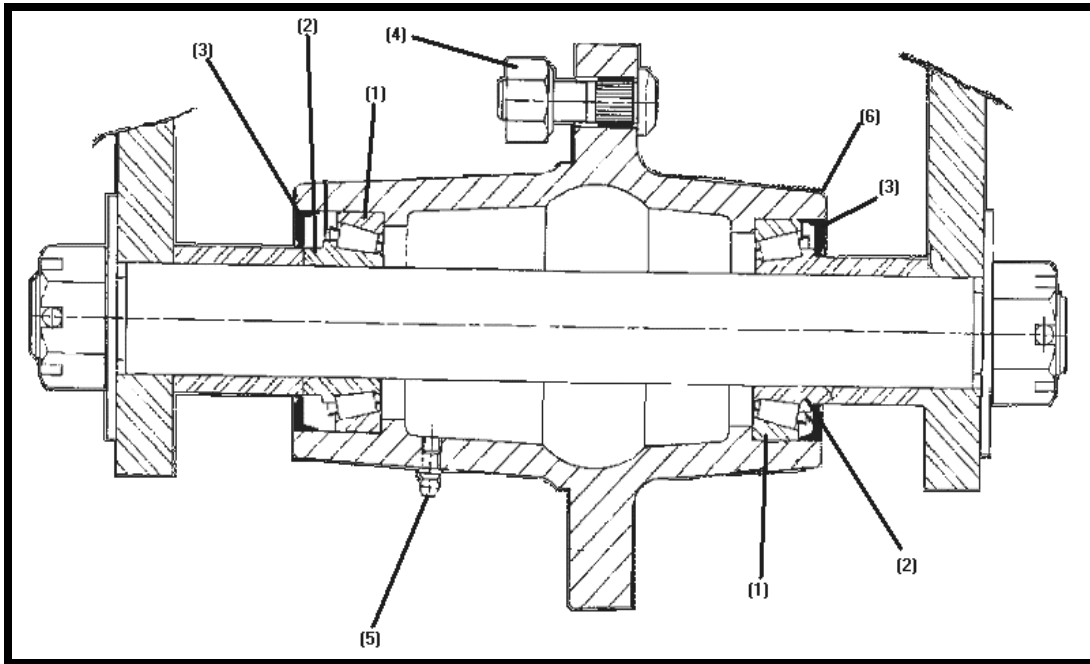


## HUB ASSEMBLY (REAR FRAME)

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	10082	inner cone	2
2	16305	outer cone	2
3	16306	Seal	2
4	16308	Dust Cap	2
5	16307	Wheel Bolt	10
6	16724	Hub w/Cups	2
7	10083	Inner Cup	2
8	16304	Outer Cup	2
9	16364	Self Tapping Grease Zerk	2
10	16358	3/4" Castle Nut NF	2
Not Shown	11669	Cotter Pin 3/16" x 1 1/4"	2
11	16323	Rear Wheel Spindle	2

## HUB ASSEMBLY (CASTER)

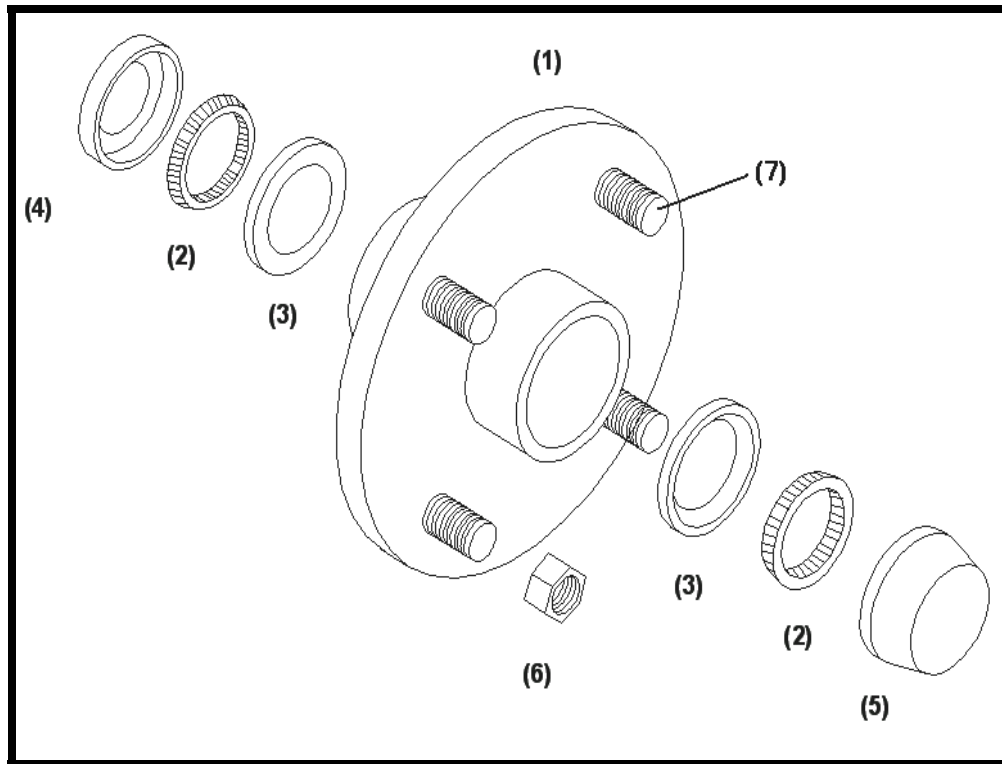


## HUB ASSEMBLY (CASTER)

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16295	Caster Hub Cups	4
2	16296	Caster Hub Cones	4
3	16297	Seal	4
4	16356	Wheel Nut	10
5	16364	Self Tapping Grease Zerk	2
6	16725	Caster Wheel w/Cups and Studs	2
Not Shown	16135	Caster Axle	2
Not Shown	16299	1 1/4" NF Castle Nut	2
Not Shown	10580	1/4" x 2" Cotter Pin	2

## HUB ASSEMBLY (RAKE WHEEL ARM)

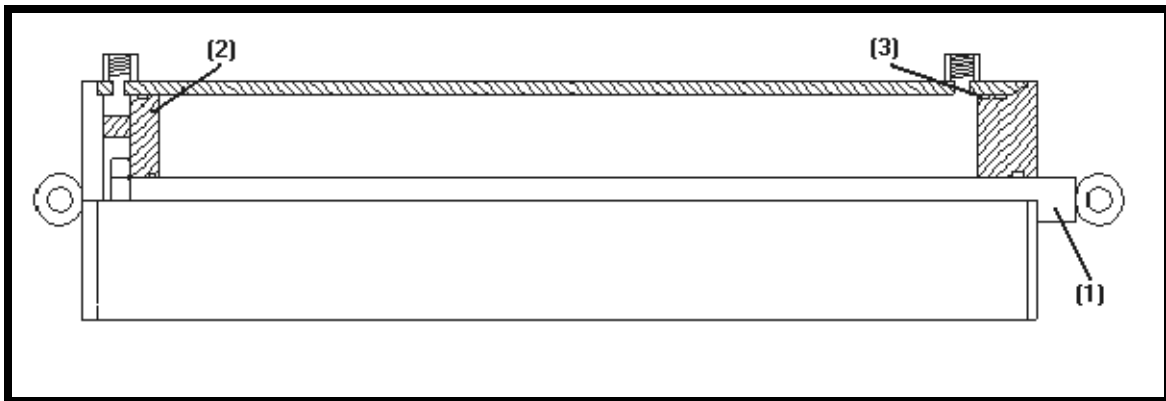


## HUB ASSEMBLY (RAKE WHEEL ARM)

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16413	Hub with Studs and Races	2
2	16082	Inner/Outer Bearing	24
3	16081	Inner/Outer Bearing Cup	24
4	16083	Grease Seal	12
5	16084	Dust Cap	12
6	16085	1/2" NF Wheel Nut	48
7	16391	1/2" Wheel Stud	48
Not Shown	16364	Self Tapping Grease Zerk	12
Not Shown	16086	Rake Wheel Spindle	12
Not Shown	16087	Rake Wheel Castle Nut	12
Not Shown	16088	Rake Wheel Spindle Washer	12
Not Shown	16089	1/8" x 1 3/4" cotter pin	12

## HYDRAULIC CYLINDER (MAIN)

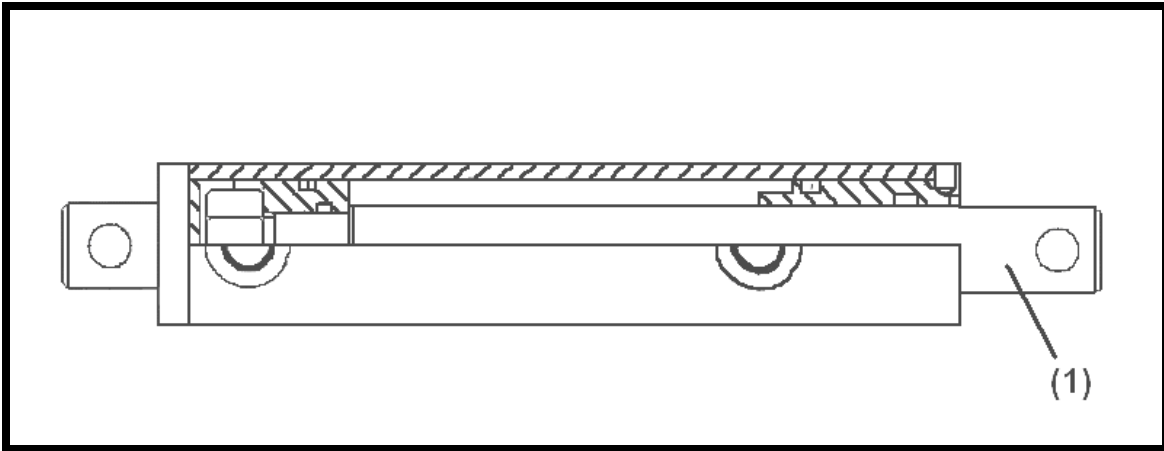


## HYDRAULIC CYLINDER (MAIN)

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
	16301	Hydraulic Cylinder Assembly	
1	16399	Main Cylinder Shaft	1
2	16598	Piston	1
3	16596	Gland	1
Not Shown	16396	Seal Kit	1

## HYDRAULIC CYLINDER (LIFT ROD)

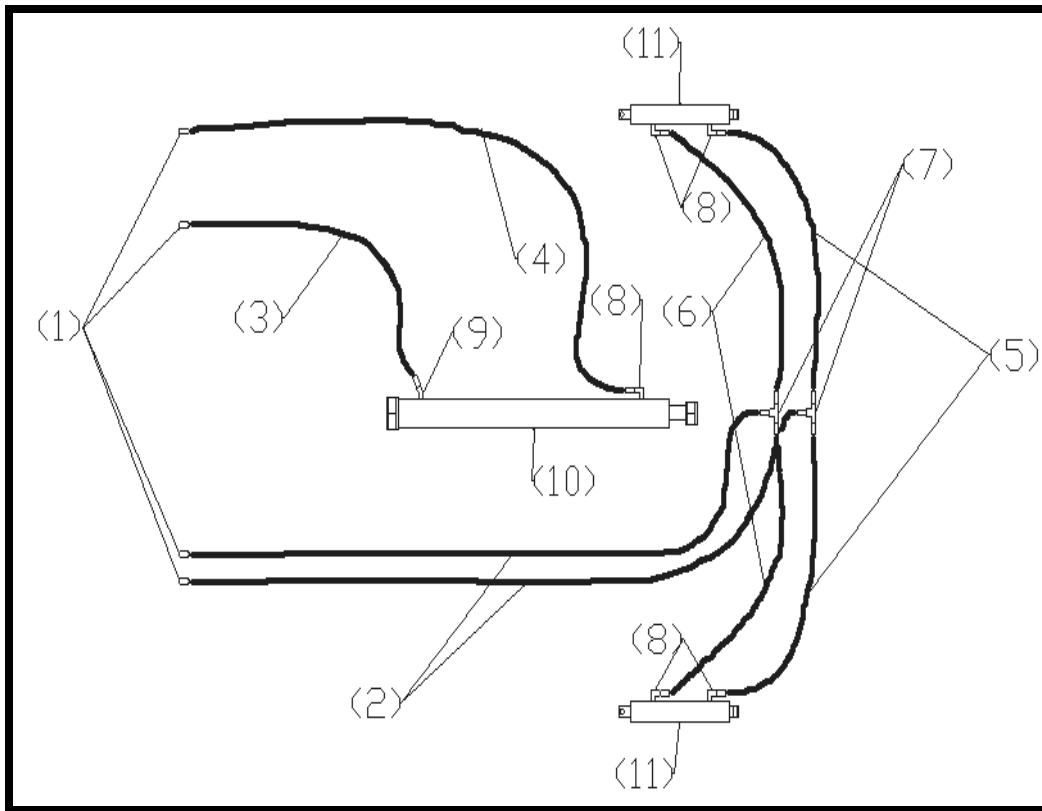


## HYDRAULIC CYLINDER (LIFT ROD)

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	10317	Hydraulic Cylinder Assembly	1
	16746	1" Cylinder Shaft	1
Not Shown	10318	Seal Kit	1

## HYDRAULIC SCHEMATICS

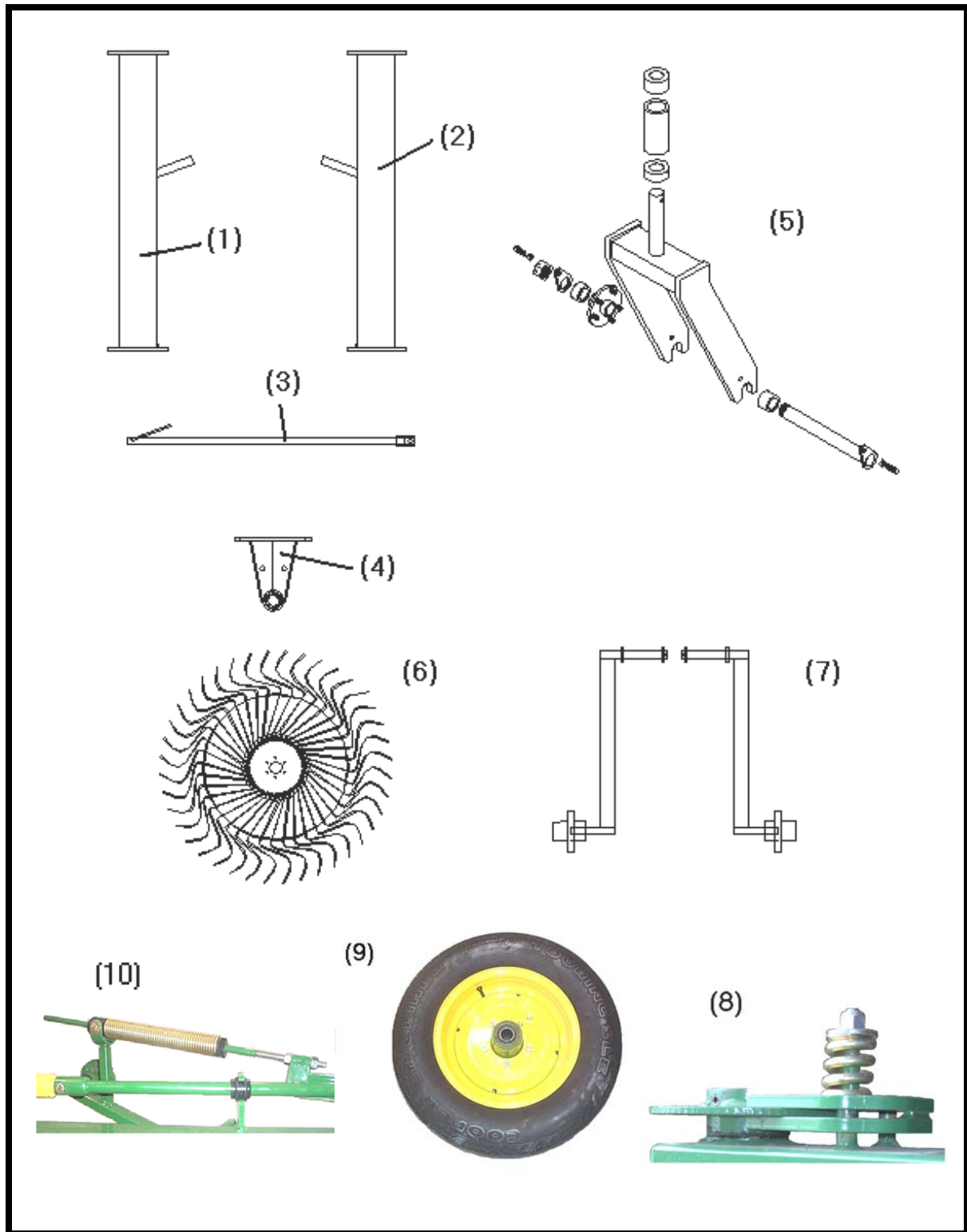


## HYDRAULIC SCHEMATICS

### PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	10167	Pioneer Male Tips	4
2	16551	Hose 439" OAL 8MP – 6FJX	2
3	16549	Hose 353" OAL 8MP – 6FJX	1
4	16550	Hose 383" OAL 8MP – 6FJX	1
5	16552	Hose 84" OAL 8MP – 6FJX	2
6	16553	Hose 93" OAL 8MP – 6FJX	2
7	10163	Fitting – 6MJ – 6MJ Tee	2
8	10201	Fitting – 6MB – 6MJ90	5
9	16386	Orifice Fitting – 6MB -6MJ90 [.0625]	1
10	16301	2 1/2 x 30" Cylinder	1
11	10317	1 1/2 x 8 Cylinder	2

# 14 WHEEL EXTENSION PARTS



# 14 WHEEL EXTENSION PARTS

## PARTS LIST

<u>Ref#</u>	<u>BMI#</u>	<u>Description</u>	<u>Qty.</u>
1	16027 16108	14 Wheel Extension Kit Left Frame Extension (Serial# VR2569 and below)	1
	16534	Left Frame Extension (Serial# VR2570 and above)	1
2	16109	Right Frame Extension (Serial# VR2569 and below)	1
	16535	Right Frame Extension (Serial# VR2570 and above)	1
Not Shown	14467	5/8" x 1 3/4" NC Bolt	12
Not Shown	11614	5/8" NC Serrated Flange Nut	12
3	16113	Extension Lift Rod	2
Not Shown	13805	1/2" x 2 1/4" NC Bolt	2
Not Shown	14443	1/2" NC Locknut	2
Not Shown	16099	Lift Rod Bushing	2
4	16115	Clamp-On Castor Mount	2
Not Shown	16091	Caster Wheel Mount U-bolt	4
Not Shown	16076	3/4" Serrated Flange nut	8
5		Caster Assembly (Page 13)	2
6		Rake Wheel Assembly (Page 14)	2
7		Rake Wheel Arm Assembly (Page 15)	2
8		Caster Brake Assembly (Page 11)	2
9	16077	Ground Wheel Assembly	2
10		Rake Wheel Spring Assembly (Page 12)	2

