



FIELD KIT

Vermeer Corporation

Environmental
Pella, Iowa 50219 USA

FIELD CAMPAIGN KIT #: IK003789 Rev. 1

DATE: Released

For Dealer Reference: Service Bulletin #: SVC2021-013 Rev.1

Enhanced Axle Kit

**CAMPAIGN
TYPE:**

Customer Choice/Enhancements

**CAMPAIGN
CATEGORY:**

Kit and Bulletin

MACHINE/ ATTACHMENT MODEL(S):	SERIAL NUMBERS:		Kit version
	Included	Excluded	
BC1500	101 – 157, 160, 162 – 166, 168, 170, 171, 173, 176 – 202, 206 – 215, 217, 220, 222 – 224, 228 – 247, 249 – 269, 272 – 279, 281, 285 – 292, 295, 296, 302 – 308, 312 – 315, 322 – 395, 398 – 409, 412 – 418, 422 – 424, 430 – 459, 463 – 465, 468, 471 – 529, 532 – 538, 540, 541, 545 – 577, 579 – 607, 609, 611, 613 – 639, 641 – 647, 649 – 663, 665 – 1000	None	IK01
BC1500	158, 159, 161, 167, 169, 172, 174, 175, 203 – 205, 216, 218, 219, 221, 225 – 227, 248, 270, 271, 280, 282, 284, 293, 294, 297 – 301, 309 – 311, 316 – 321, 396, 397, 410, 411, 419 – 421, 425 – 429, 460 – 462, 466, 467, 470, 530, 531, 539, 542 – 544, 578, 608, 610, 612, 640, 648, 664	None	IK02
BC1500	1001 – 1285, 1287 – 1484, 1486 – 2188, 2190 – 2520, 2522, 2524 – 2544, 2546 – 2561, 2563 – 2570, 2572 – 2608, 2610 – 2668, 2670 – 2720, 2722, 2735 – 2830, 2832 – 2952, 2954 – 2977, 2979, 2980, 2982 – 5000	None	IK03

BC1500	5001 – 5139, 5141 – 5328, 5330 – 5524, 5526 – 5655, 5657 – 5837, 5839 – 6018, 6020 – 6034, 6036 – 6213, 6215 – 6321, 6323 – 6350, 6352 – 6413, 6415 – 8000	None	IK04
BC1500	8001 – 8307, 8309 – 8350	None	IK05
BC1500	8351 – 8357, 8359 – 8361, 8363 – 8439, 8441 – 8471, 8473 – 8549, 8551, 8553 – 8562, 8564 – 8580, 8582 – 8632, 8634 – 8731, 8733 – 8749, 8751 – 8773, 8775 – 8782, 8784 – 8825, 8827 – 9001, 9003 – 9088, 9090 – 9450, 9452 – 9534, 9536 – 9631, 9633, 9634, 9636 – 9655, 9657 – 9717, 9719 – 9731, 9733 – 9737, 9739 – 9878, 9800 – 12000	None	IK06
BC1500	1286, 1485, 2189, 2521, 2523, 2545, 2562, 2571, 2609, 2669, 2721, 2734, 2831, 2953, 2978, 2981	None	IK07
BC1500	5140, 5329, 5525, 5656, 5838, 6019, 6035, 6214, 6322, 6351, 6414	None	IK08
BC1500	8308	None	IK09
BC1500	8358, 8362, 8440, 8472, 8550, 8552, 8563, 8581, 8633, 8732, 8750, 8774, 8783, 8826, 9002, 9064, 9089, 9451, 9535, 9632, 9635, 9656, 9718, 9732, 9738, 9879	None	IK10

Purpose: This kit includes parts and instructions to replace axle.

Reason for revision: All BC1500 brush chippers located in Australia installing IK01 – IK06 must immediately weigh machine after install is complete to ensure weight is less than the ATM on VIN Plate. If weight is more than ATM, a vehicle modification plate must be installed that reflects updated values to comply with Australian Design Rule (ADR) 61/02. If a machine weighs 3 500 kg (7,720 lb) or more, it will also need to have safety chains installed that meet the marking requirements of ADR 62/02.

Special tools and conditions:

- Use suitable lifting device with a minimum of 10,000 lb (4 550 kg) capacity.

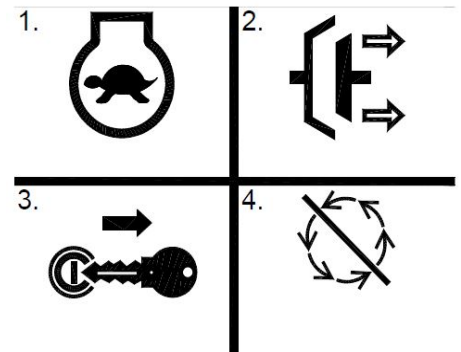
Shutdown procedure:

Stopping the machine



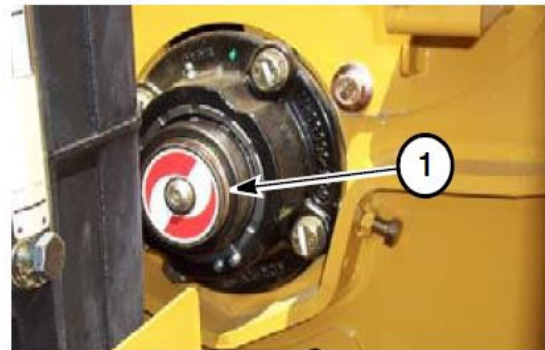
WARNING: Failure to use shutdown procedure can result in unexpected hazard(s). Death or serious injury could result due to entanglement, crushing, cutting, or other hazardous contact. Follow Shutdown Procedure after operating, before performing any service or maintenance, and before transporting.

1. Return upper feed control bar to center stop position.
2. Place throttle switch in low rpm.
3. Whenever practical or safe, allow engine to idle for one to five minutes before shutting down after operating at full power. Please consult machine's engine manual for details.
4. Wait for cutter drum to slow.
5. Place clutch/throttle lever in the disengaged/low rpm position.
6. If so equipped, shut off remote control if in use.
7. Shut off engine and remove key.
8. Wait for cutter drum and belt to stop.



NOTICE: Cutter drum rotation can be checked by looking at the end of the shaft (1) on the left side of the cutter drum housing.

The cutter drum will continue to turn for a short time after the engine has stopped.



9. Close and latch feed table.

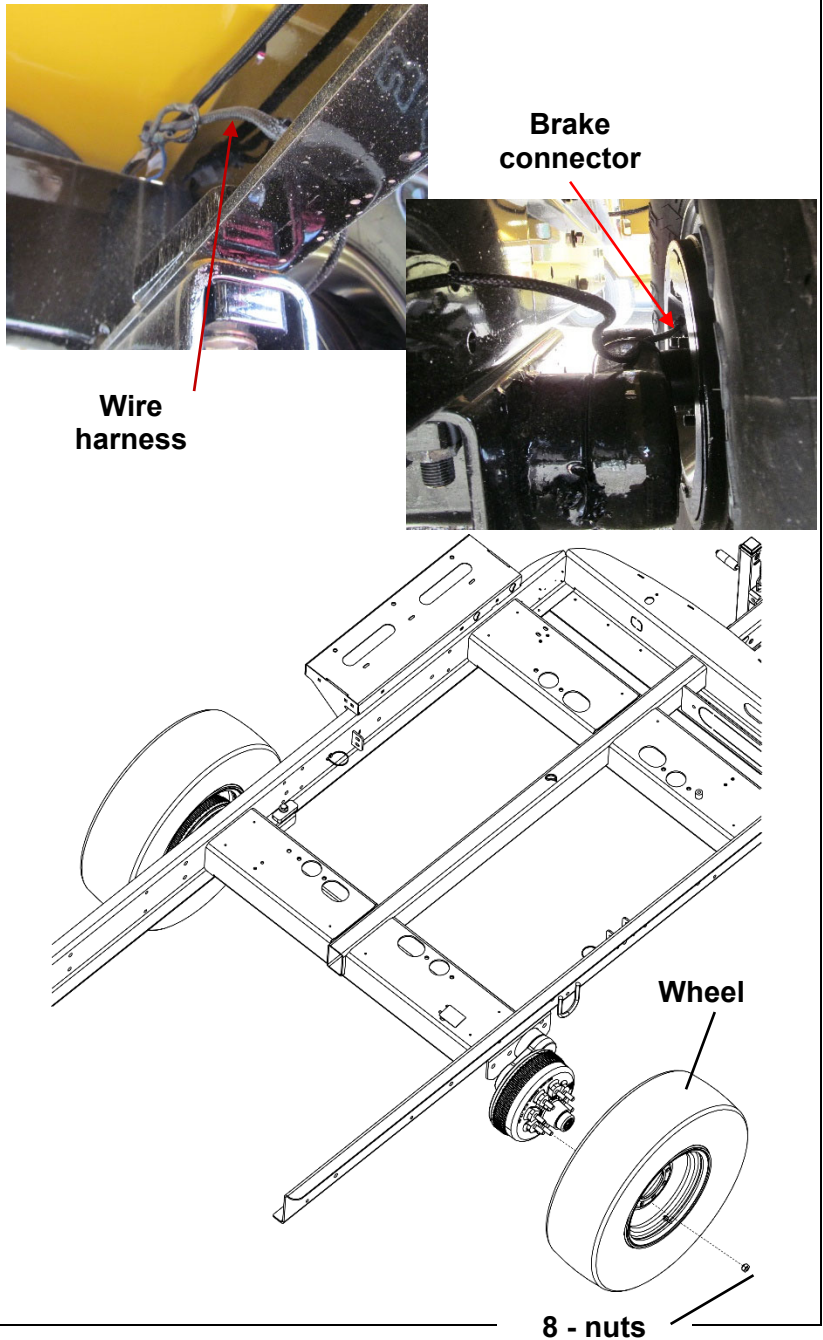
A variation of the above procedure may be used if instructed within this manual or if an emergency requires it.



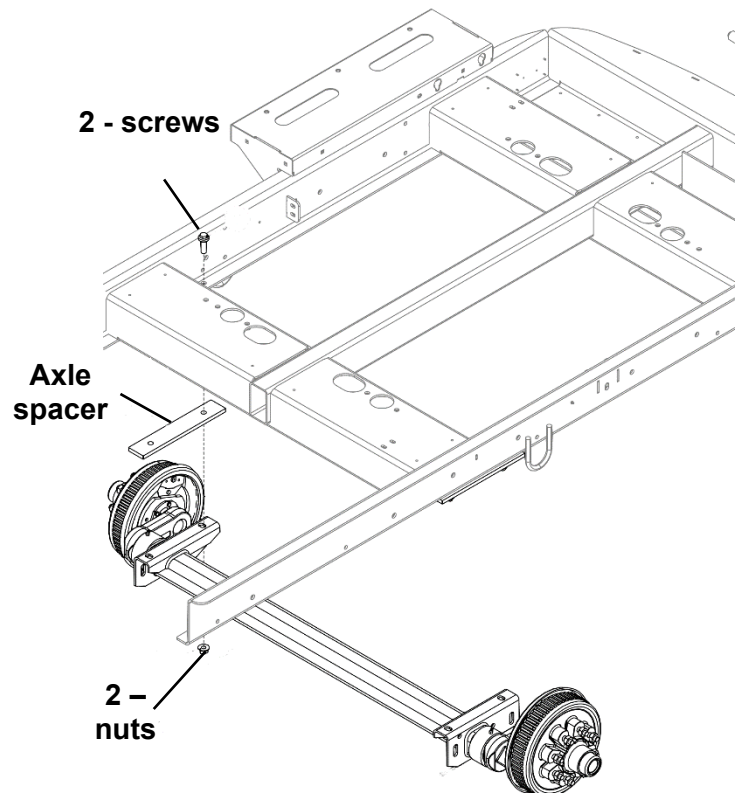
WARNING: Raised load can shift or fall. Death or serious injury could be possible if struck or crushed by falling load. Never allow anyone under a raised load unless load is securely supported to prevent it from shifting or falling.

Procedure 1: Wheel and axle removal IK01 and IK02

1. Using a suitable lifting device capable of lifting approximately 10,000 lb (4 550 kg), raise machine off ground to allow adequate room to remove tire and axle.
2. Place suitable blocking under trailer frame and remove lifting device.
3. Disconnect electric brake connectors on each brake hub from wiring harness.
4. Remove and discard eight nuts and wheel from each side of machine. Weight of each wheel is approximately 91 lb (42 kg).

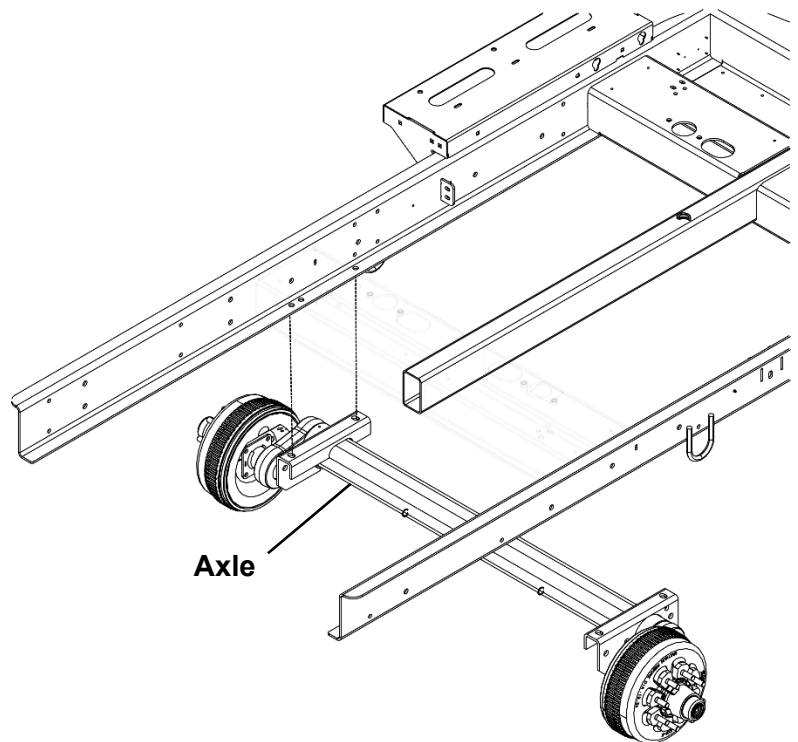


5. Support axle with a suitable blocking device. Remove and discard four screws, four nuts and axle spacer on each side of machine. Weight of axle is approximately 271 lb (123 kg).



Crossmember shadowed out for better clarity.

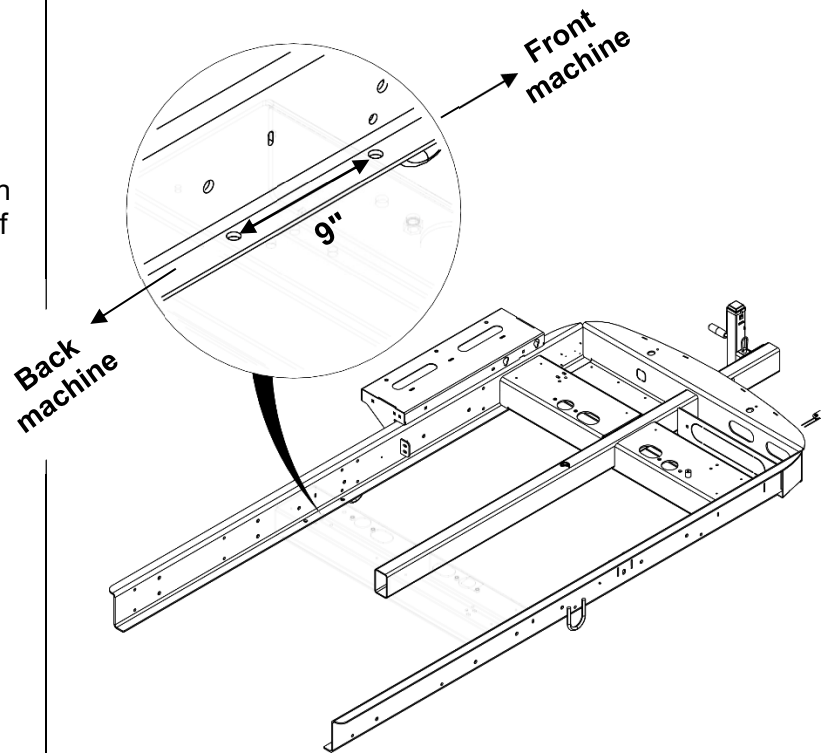
6. Remove and discard axle.



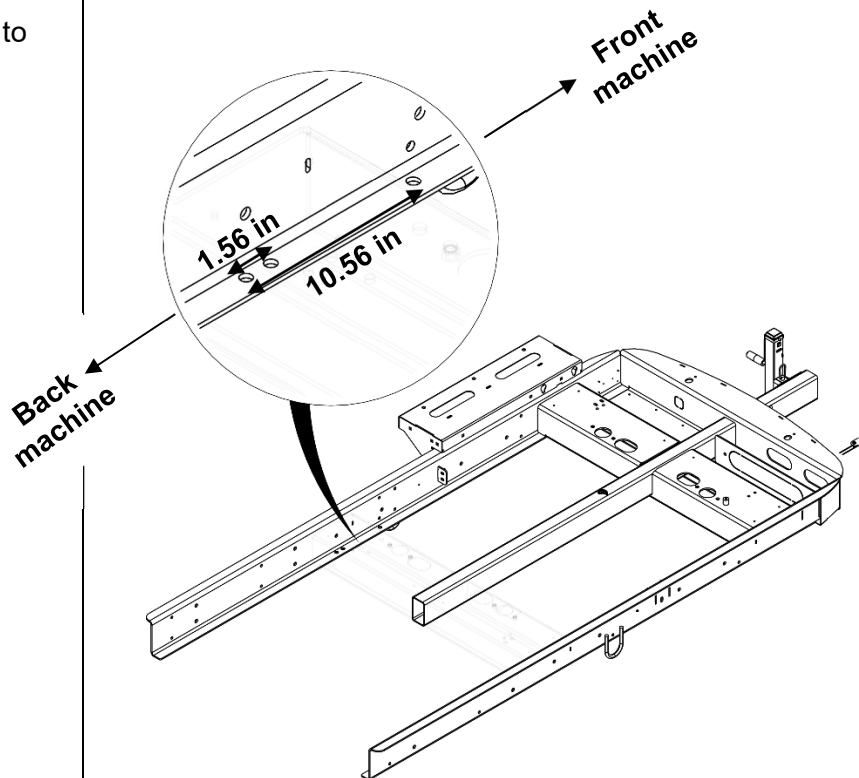
Procedure 2: Frame rework IK01 and IK02

Crossmember shadowed out for better clarity.

1. Some frames only have 9 in spacing for attaching axles on frame. New axles require center to center 10.56 in spacing on frame for attaching axle. If machine frame has three holes for required spacing, skip procedure 2.



2. Drill a 0.650-in hole 1.56 in center to center closest towards back of machine.



Procedure 3: Attach new axle and wheels IK01 and IK02

Crossmember shadowed out for better clarity.

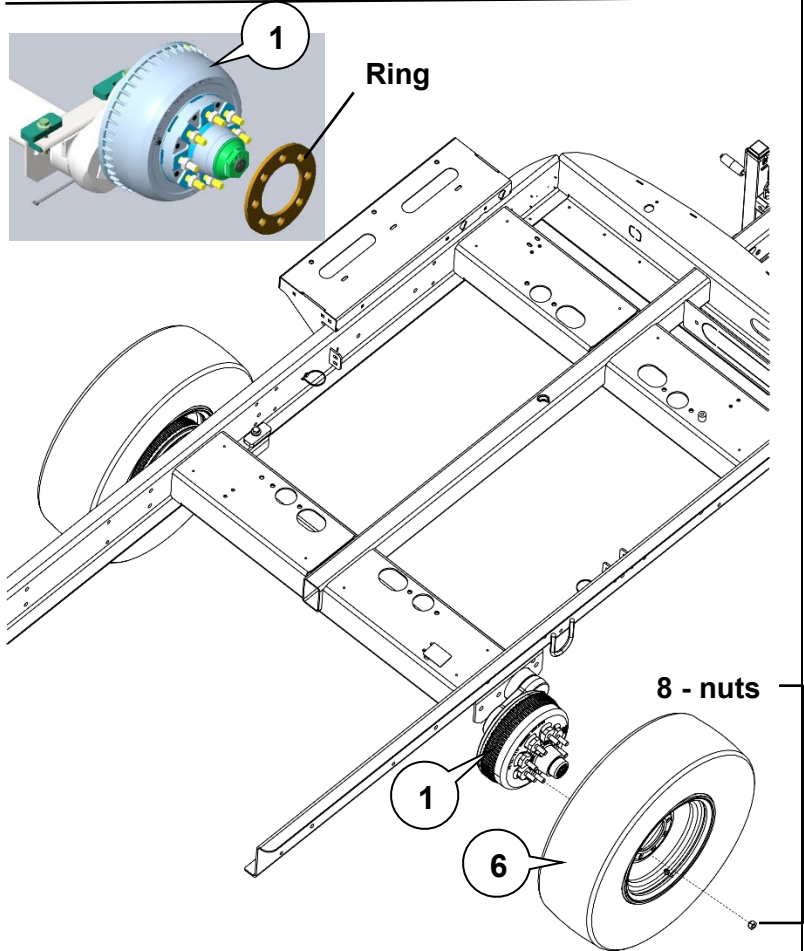
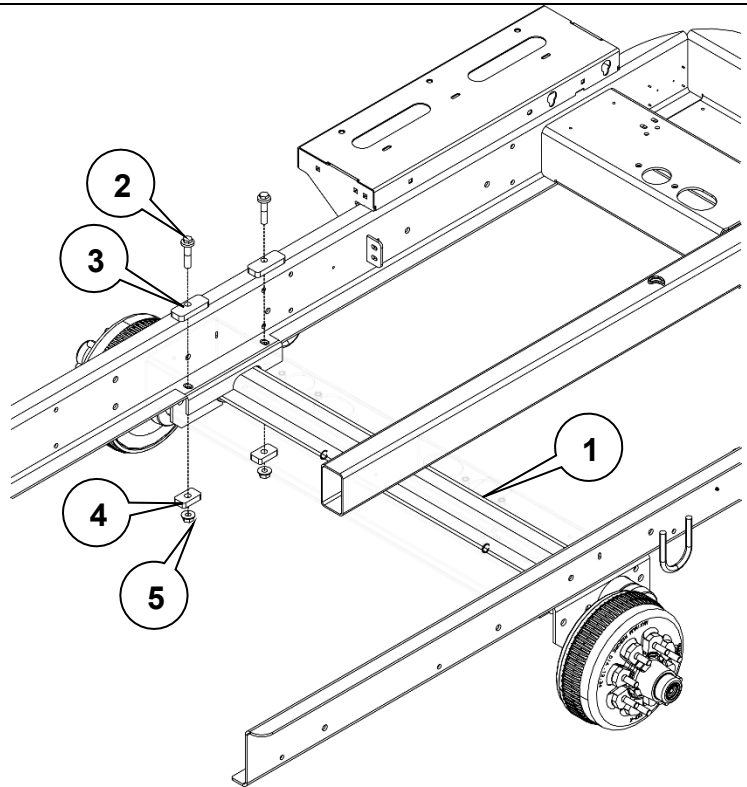
1. Using a suitable lifting device capable of lifting approximately 10,000 lb (4 550 kg), raise machine off ground to allow adequate room to attach new axle and tires.
2. Place suitable blocking under trailer frame and remove lifting device.
3. Attach axle **(1)** that comes with kit to frame using four screws **(2)**, four frame mount supports **(3)**, four axle base supports **(4)** and four nuts **(5)**. Weight of axle is approximately 435 lb (197 kg).

Torque axle screws to 127 ft-lb (172 Nm).
Do not use air impact tools to install axle screws. Air ratchets are permissible.

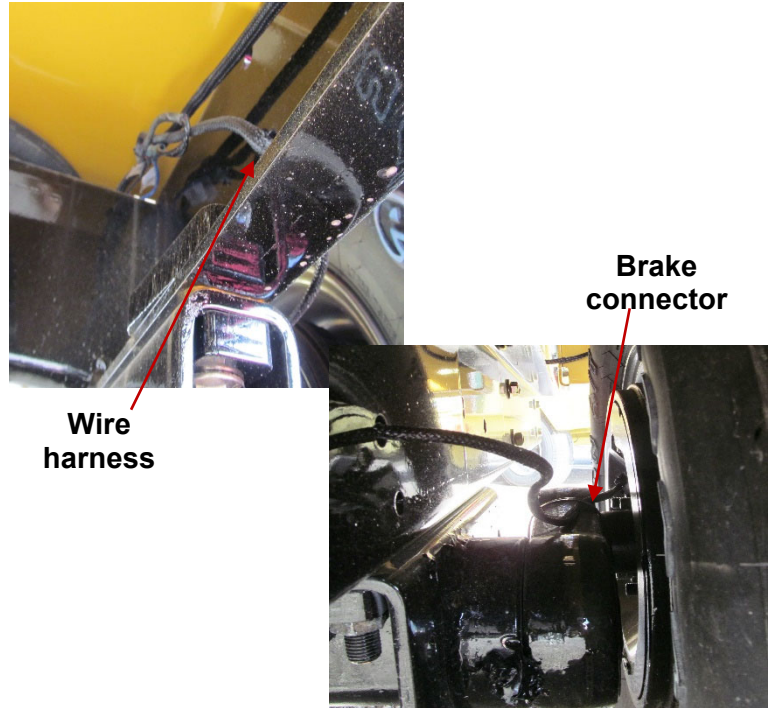
4. Use retaining ring that comes with new axle when attaching new wheels.
5. Attach two new wheels **(6)** on axle **(1)** using 16 nuts that come with axle. Weight of each wheel is approximately 91 lb (41 kg).

Torque wheel nuts to 200 ft-lb (271 Nm).

Check to make sure tire pressure is set at 80 – 85 psi (550 – 590 kPa).



6. Connect electric brake connectors on each brake hub to wiring harness.

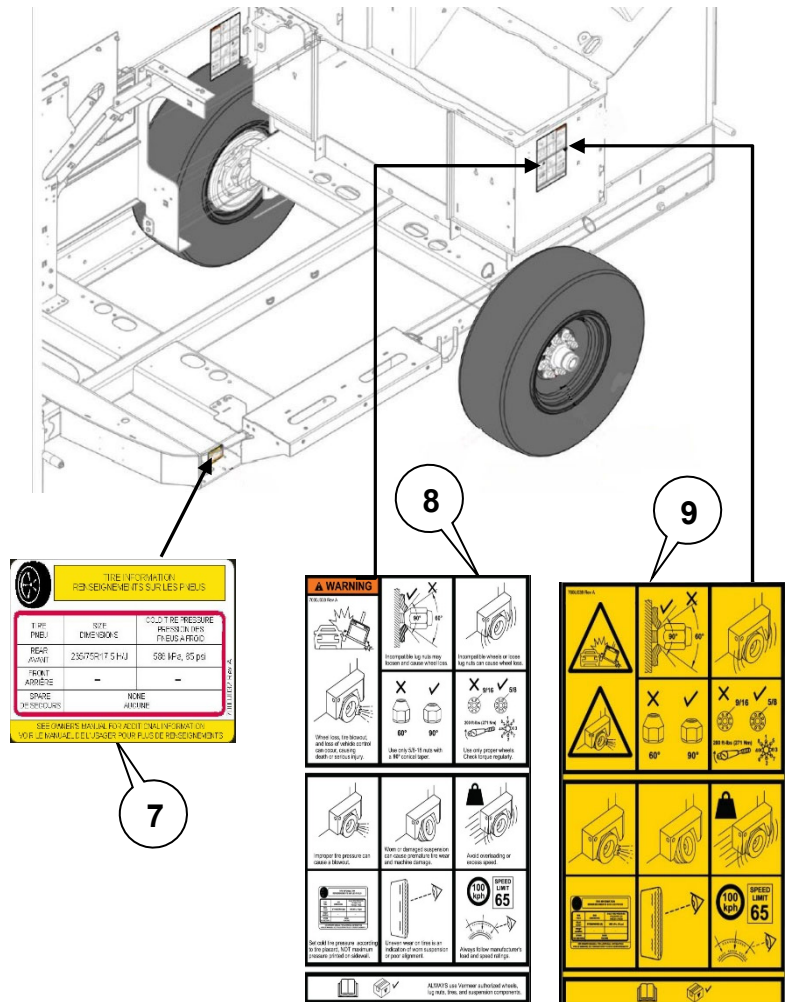


7. For IK01, attach one new wheel and tire warning decal (8) on each side of machine. Attach one new tire information decal (7) on left side of machine.

8. For IK02, attach one new wheel and tire warning decal (9) on each side of machine. Attach one new tire information decal (7) on left side of machine.

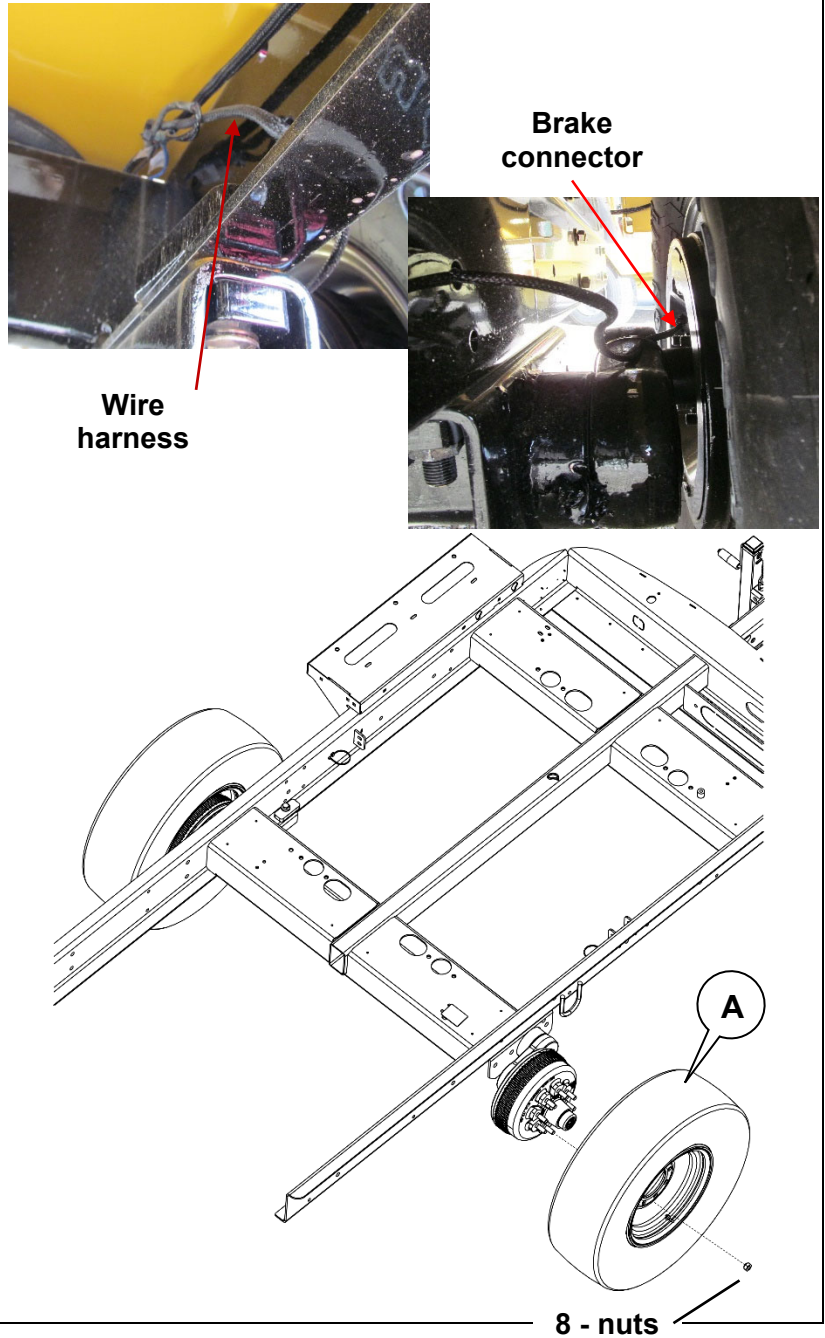
Machines located in Australia installing kit must immediately weigh machine after install is complete to ensure weight is less than the ATM on VIN plate.

9. Install supplemental operator's manual with ring in manual storage box along with cabled operator's manual.

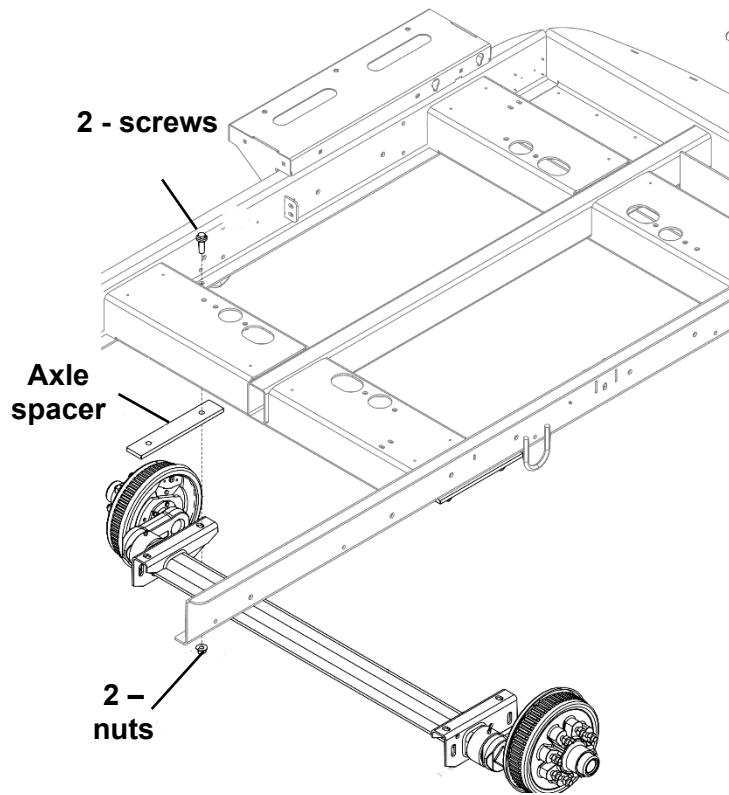


Procedure 1: Wheel and axle removal IK03 – IK06

1. Using a suitable lifting device capable of lifting approximately 10,000 lb (4 550 kg), raise machine off ground to allow adequate room to remove tire and axle.
2. Place suitable blocking under trailer frame and remove lifting device.
3. Disconnect electric brake connectors on each brake hub from wiring harness.
4. Remove and discard eight nuts and remove and retain wheel **(A)** from each side of machine. Weight of each wheel is approximately 91 lb (42 kg).

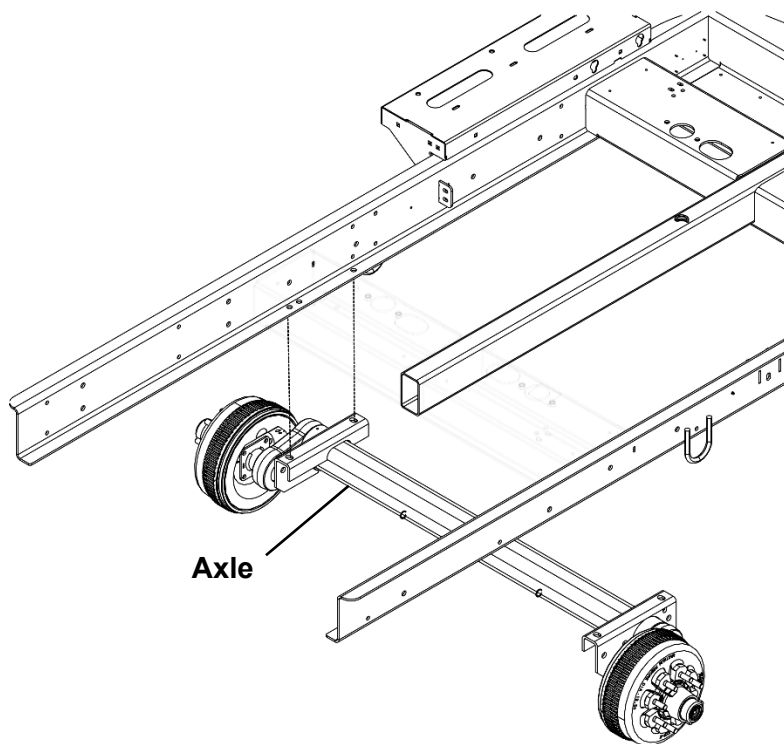


5. Support axle with a suitable blocking device. Remove and discard four screws, four nuts and axle spacer on each side of machine. Weight of axle is approximately 271 lb (123 kg).



Crossmember shadowed out for better clarity.

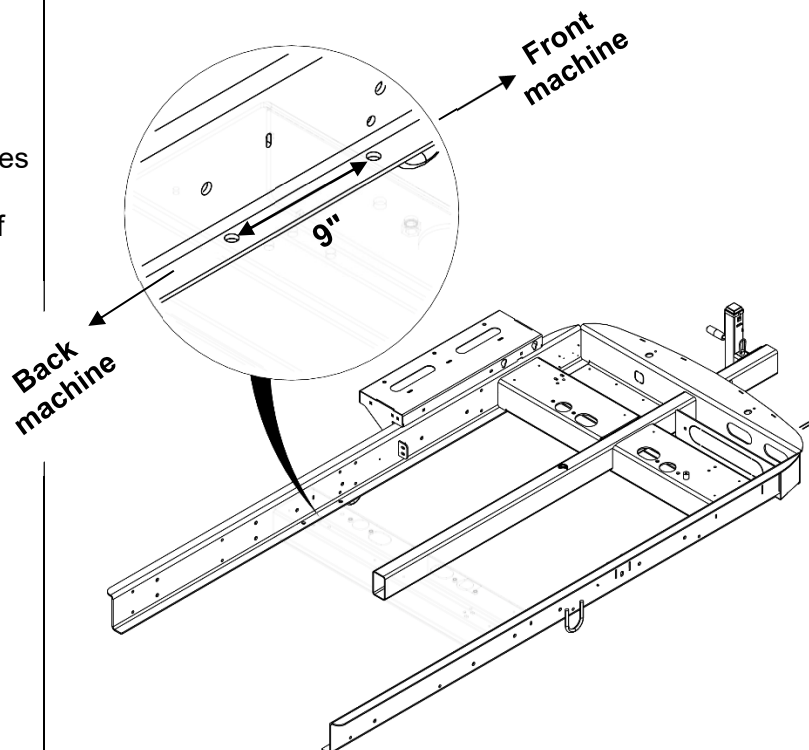
6. Remove and discard axle.



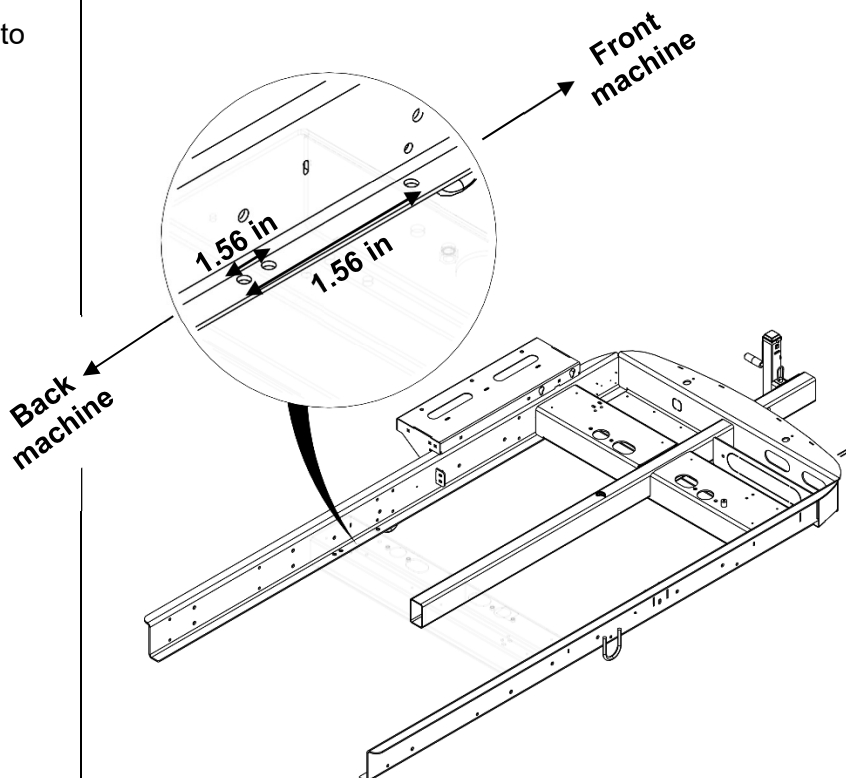
Procedure 2: Frame rework IK03 – IK06

Crossmember shadowed out for better clarity.

1. Some frames only have 9-in spacing for attaching axles on frame. New axles require center to center 10.56-in spacing on frame for attaching axle. If machine frame has three holes for required spacing, skip procedure 2.



2. Drill a 0.650-in hole 1.56 in center to center closest towards back of machine.



Procedure 3: Attach new axle and retained wheels IK03 – IK06

Crossmember shadowed out for better clarity.

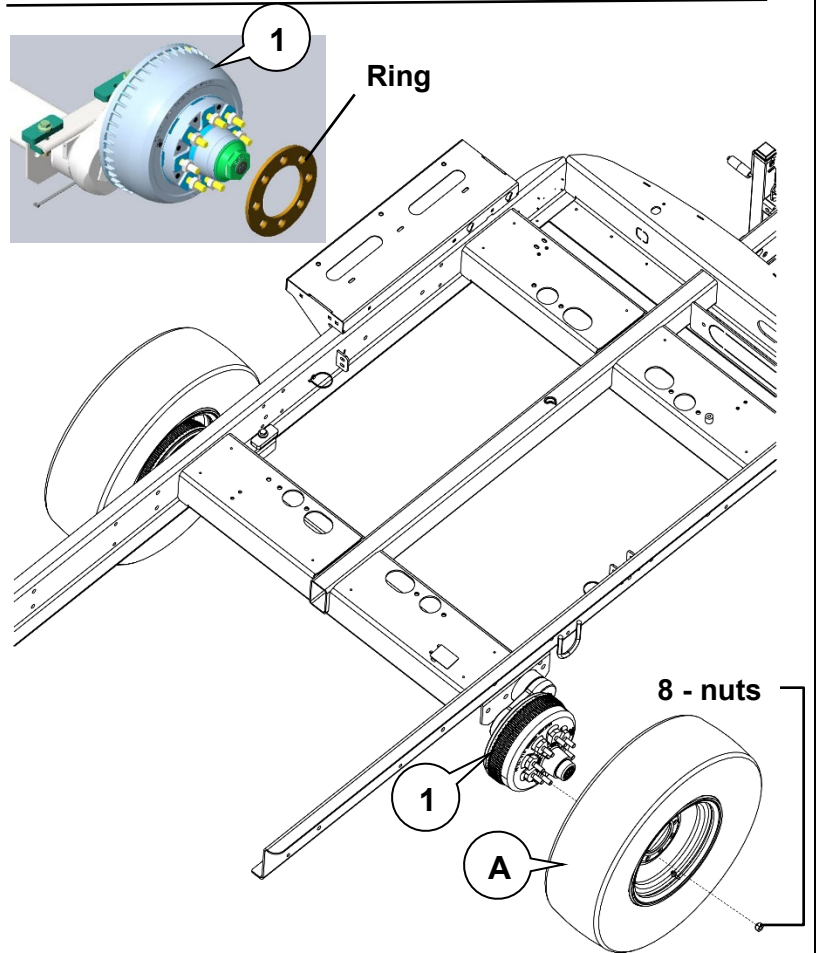
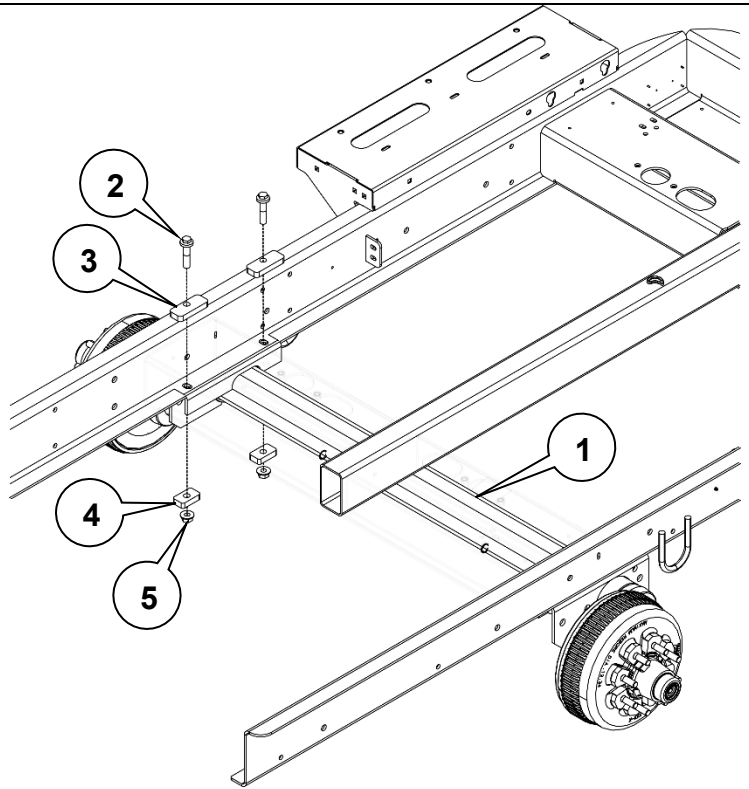
1. Using a suitable lifting device capable of lifting approximately 10,000 lb (4 550 kg), raise machine off ground to allow adequate room to attach new axle and tires.
2. Place suitable blocking under trailer frame and remove lifting device.
3. Attach axle **(1)** that comes with kit to frame using four screws **(2)**, four frame mount supports **(3)**, four axle base supports **(4)** and four nuts **(5)**. Weight of axle is approximately 435 lb (197 kg).

Torque axle screws to 127 ft-lb (172 Nm).
Do not use air impact tools to install axle screws. Air ratchets are permissible.

4. Retain ring if machine has 235/75R17.5 rim and tires. Discard ring if machine does not have 235/75R17.5 rim and tires.
5. Attach two retained wheels **(A)** on axle **(1)** using 16 nuts that come with axle. Weight of each wheel is approximately 91 lb (41 kg).

Torque wheel nuts to 200 ft-lb (271 Nm).

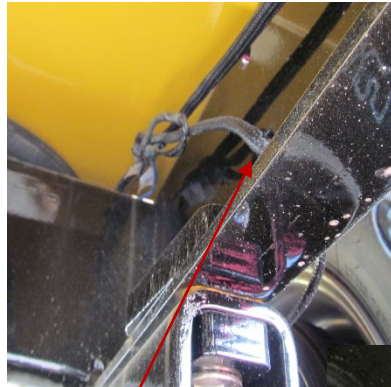
Check to make sure tire pressure is set at 80 – 85 psi (550 – 590 kPa).



6. Connect electric brake connectors on each brake hub to wiring harness.

Machines located in Australia installing kit must immediately weigh machine after install is complete to ensure weight is less than the ATM on VIN plate

7. Install supplemental operator's manual with ring in manual storage box along with cabled operator's manual.



**Wire
harness**



**Brake
connector**

UNIT OWNER COPY: Insert in parts manual for future reference.

Figure 1

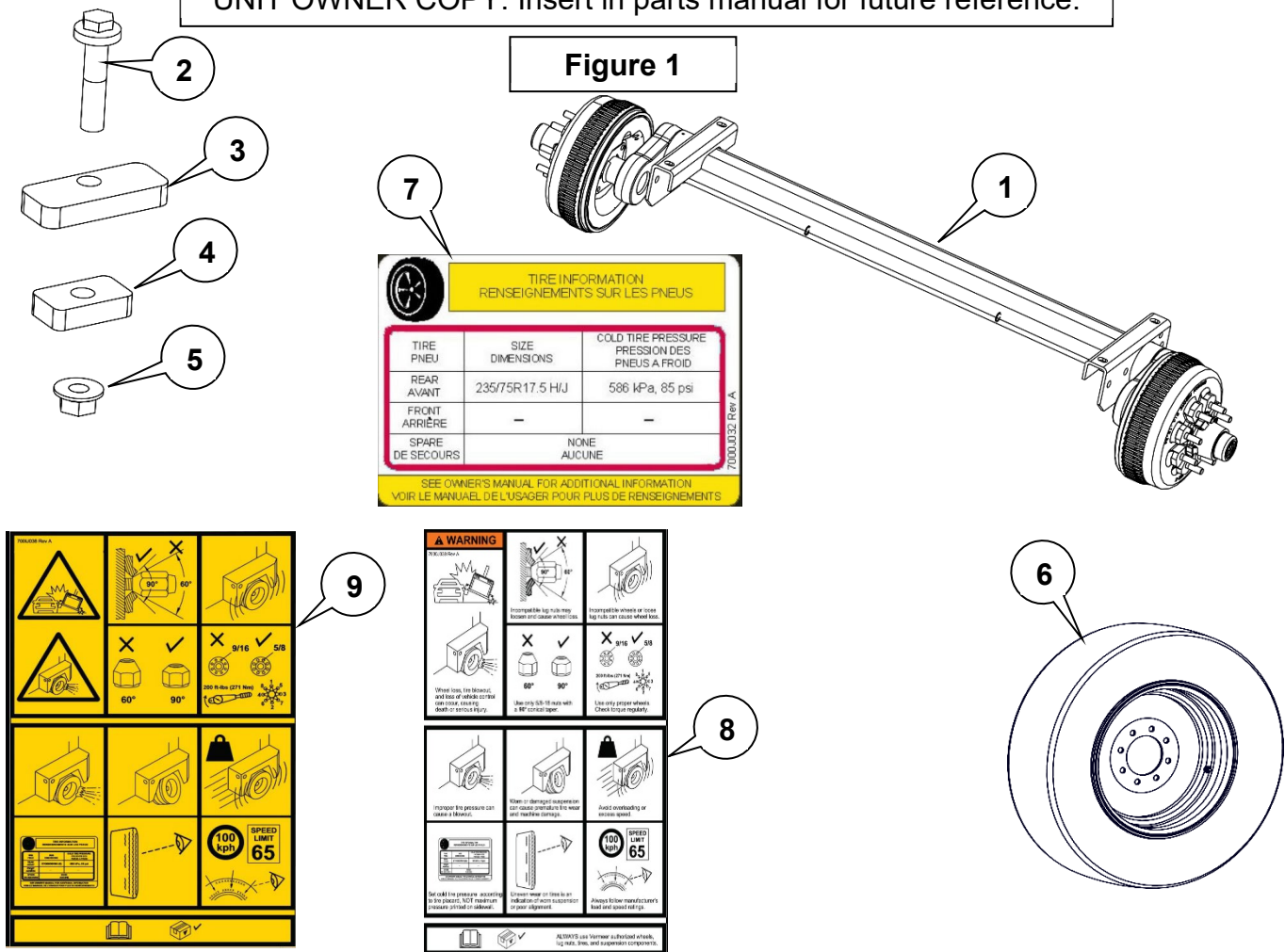


Figure 1 Parts List

REF. NO.	PART NO.	DESCRIPTION	IK01 QTY.	IK02 QTY.	IK03 QTY.	IK04 QTY.	IK05 QTY.	IK06 QTY.	IK07 QTY.	IK08 QTY.	IK09 QTY.	IK10 QTY.
1	163800603	AXLE-9200LB #13G 10 DEG. DOWN TRAIL	1	1	1	1	1	1	-	-	-	-
2	507614070	SCREW - HFS M16 2X70 10.9 B18.2.3.9M PT	4	4	4	4	4	4	-	-	-	-
3	163709841	SUPPORT FRAME MOUNT BC1500	4	4	4	4	4	4	-	-	-	-
4	163709839	SUPPORT AXLE BASE	4	4	4	4	4	4	-	-	-	-
5	507085016	NUT-HEXFLNG LOCK, M16-2.00,10.9, D6927	4	4	4	4	4	4	-	-	-	-
6	163713905	HEAVY DUTY - WHEEL ASSY - 235/75R17.5 H/J; 5/8 S	2	2	-	-	-	-	-	-	-	-
7	7000J032	DECAL-TIRE INFORMATION	1	1	-	-	-	-	-	-	-	-
8	7000J038	DECAL-WARNING, WHEEL & TIRE	2	-	-	-	-	-	-	-	-	-
9	700IJ038	DECAL-WARNING, WHEEL & TIRE	-	2	-	-	-	-	-	-	-	-
Kits include all items in Figure 1 parts list.												

UNIT OWNER COPY: Insert in parts manual for future reference.

Figure 2

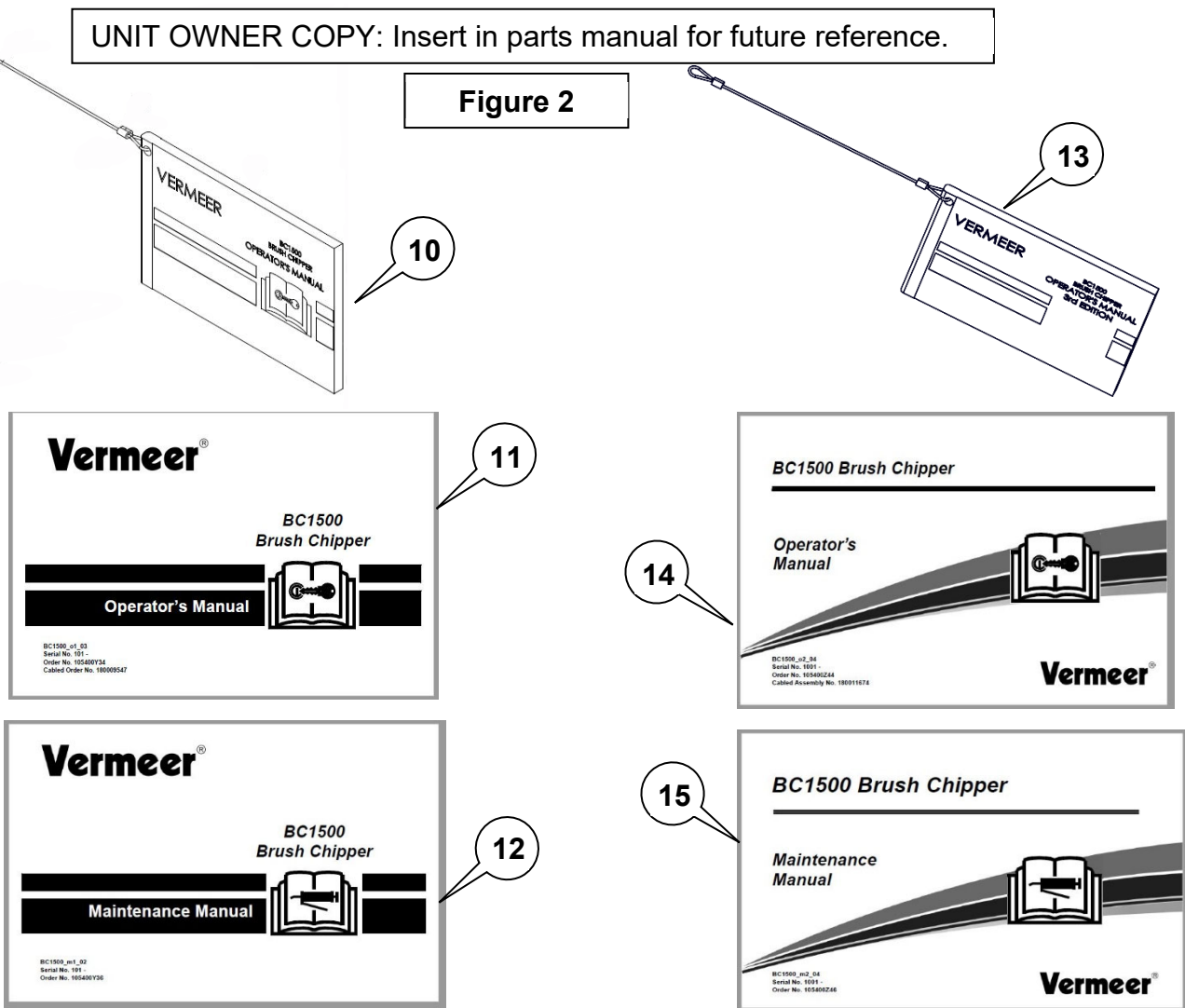


Figure 2 Parts List

REF. NO.	PART NO.	DESCRIPTION	IK01 QTY.	IK02 QTY.	IK03 QTY.	IK04 QTY.	IK05 QTY.	IK06 QTY.	IK07 QTY.	IK08 QTY.	IK09 QTY.	IK10 QTY.
10	180009547	BC1500 MINI MANUAL ASSEMBLY	1	1	-	-	-	-	-	-	-	-
11	105400Y34	OM-BC1500 (EN) 1ST ED S/N 101-1000	1	1	-	-	-	-	-	-	-	-
12	105400Y36	MM-BC1500 (EN) 1ST ED S/N 101-1000	1	1	-	-	-	-	-	-	-	-
13	180011674	BC1500 MINI MANUAL ASSEMBLY	-	-	1	-	-	-	1	-	-	-
14	105400Z44	OM-BC1500 (EN) 2ND ED S/N 1001-5000	-	-	1	-	-	-	1	-	-	-
15	105400Z46	MM-BC1500 (EN) 2ND ED S/N 1001-5000	-	-	1	-	-	-	1	-	-	-
Kits include all items in Figure 2 parts list.												

UNIT OWNER COPY: Insert in parts manual for future reference.

Figure 3

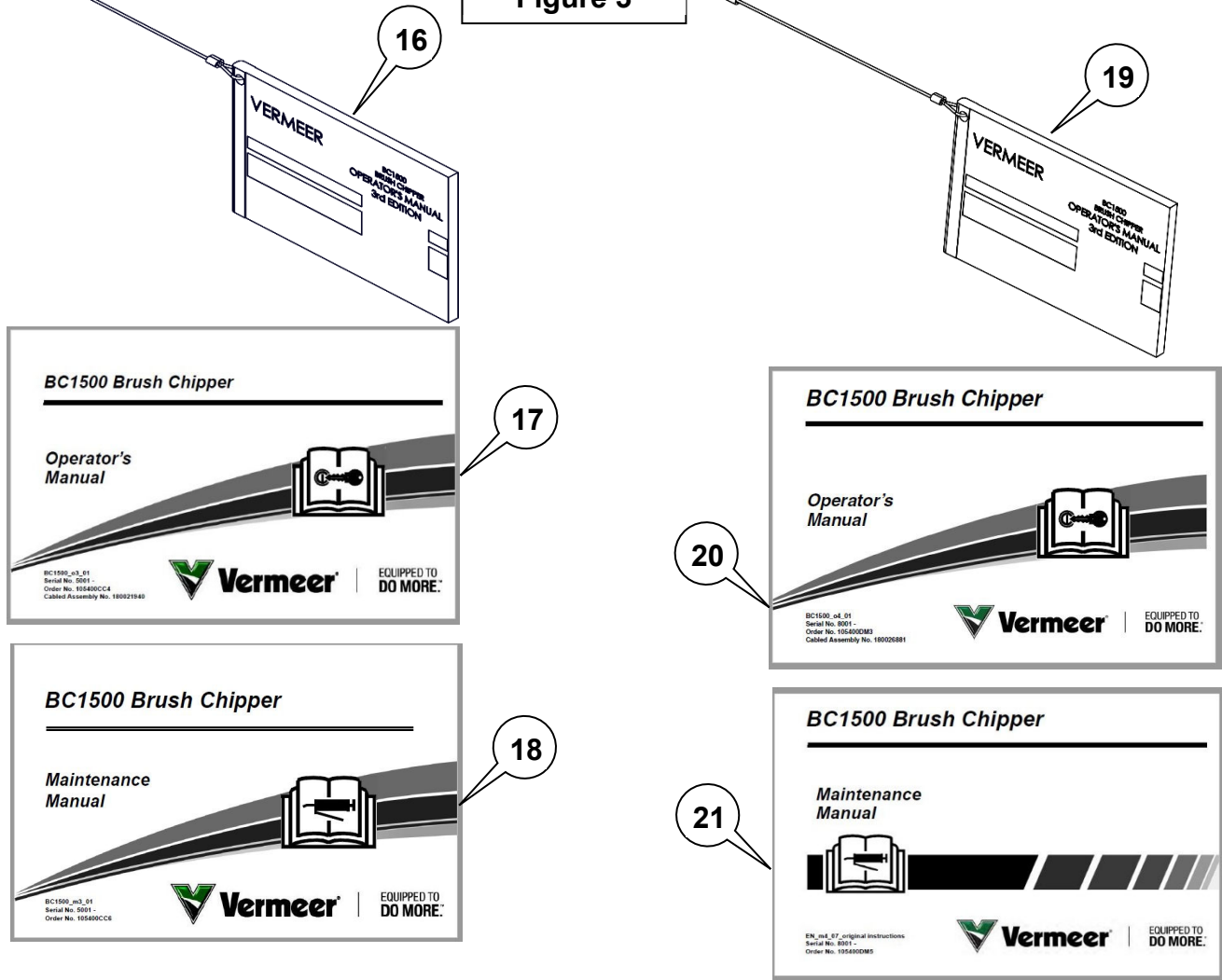


Figure 3 Parts List

REF. NO.	PART NO.	DESCRIPTION	IK01 QTY.	IK02 QTY.	IK03 QTY.	IK04 QTY.	IK05 QTY.	IK06 QTY.	IK07 QTY.	IK08 QTY.	IK09 QTY.	IK10 QTY.
16	180021940	ASSEMBLY - BC1500 T4I MINI MANUAL	-	-	-	1	-	-	-	1	-	-
17	105400CC4	OM-BC1500 (EN) 3RD ED S/N 5001-8000	-	-	-	1	-	-	-	1	-	-
18	105400CC6	MM-BC1500 (EN) 3RD ED S/N 5001-8000	-	-	-	1	-	-	-	1	-	-
19	180026881	ASSEMBLY - CABLED BC1500 T4F MANUAL	-	-	-	-	1	-	-	-	1	-
20	105400DM3	OM-BC1500 (EN) 4TH ED S/N 8001-	-	-	-	-	1	-	-	-	1	-
21	105400DM5	MM-BC1500 (EN) 4TH ED S/N-8001-	-	-	-	-	1	1	-	-	1	1
Kits include all items in Figure 3 parts list.												

UNIT OWNER COPY: Insert in parts manual for future reference.

Figure 4

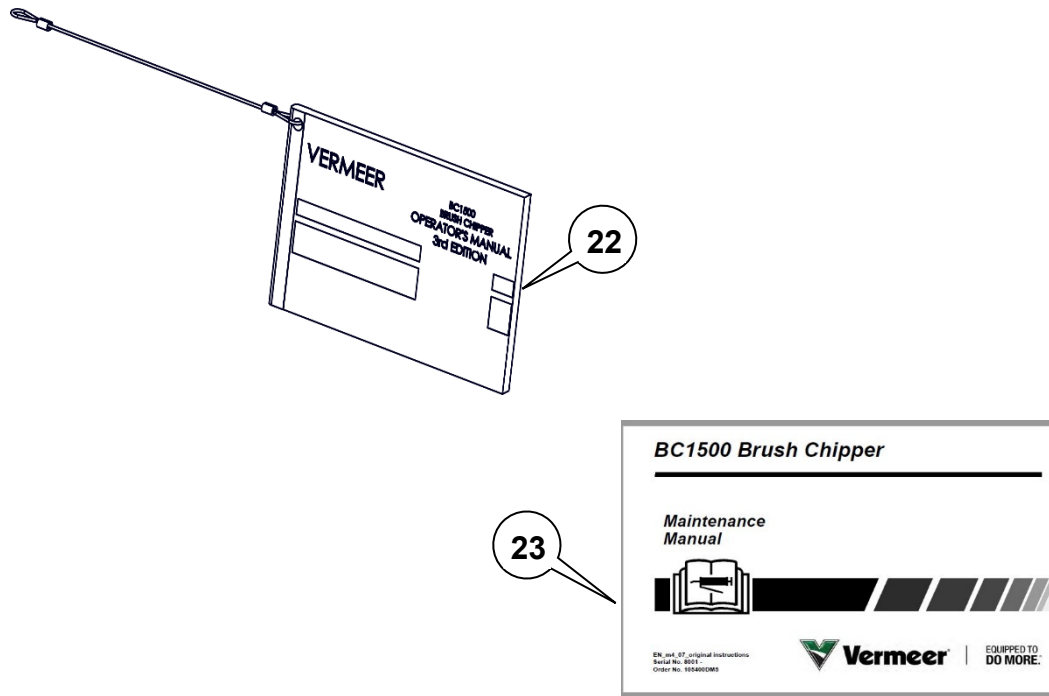


Figure 4 Parts List

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>IK01 QTY.</u>	<u>IK02 QTY.</u>	<u>IK03 QTY.</u>	<u>IK04 QTY.</u>	<u>IK05 QTY.</u>	<u>IK06 QTY.</u>	<u>IK07 QTY.</u>	<u>IK08 QTY.</u>	<u>IK09 QTY.</u>	<u>IK10 QTY.</u>
22	163709634	ASSEMBLY - BC1500 T4F MINI MANUAL	-	-	-	-	-	1	-	-	-	1
23	105400EH2	OM-BC1500 (EN) 5TH ED S/N 8351-	-	-	-	-	-	1	-	-	-	1
Kits include all items in Figure 4 parts list.												