

Right to Repair Testimony

April 2023 by Willie Cade

Chair and committee members thank you for the opportunity to testify today. I come before you today to clear up the myths about Agricultural Right to Repair. According to the US Department of Justice in their recent filing in a Statement of Interest, in a case where a Missouri farmer and others are suing John Deere,¹ they say,

Consistent with Supreme Court precedent, the policy of the United States is “to enforce the antitrust laws to combat the excessive concentration of industry, the abuses of market power, and the harmful effects of monopoly and monopsony—especially as these issues arise in . . . agricultural markets, . . . repair markets,” and elsewhere too. Exec. Order No. 14,036, § 1, 86 Fed. Reg. 36987 (July 9, 2021) and,

Just last month twenty-eight attorneys General urged congress to “pass expansive Right-to-Repair legislation targeted at automobiles, **agricultural equipment**, and digital electronic equipment to protect our consumers and farmers across the nation²,” and it is a “a bipartisan issue.”

This is an issue whose time has come, here, in Missouri, today. You might be asking yourself, “Why should we act, especially given the above.” My answer is simple, Missouri farmers can’t and shouldn’t wait, for Washington, the courts, or other state legislators. **The time is now, and the place is here.**

Here are a few of the myths, (see also Appendix A:)

- 1) **Everything farmers need to make repairs is already provided.**

THE TRUTH: There are significant limitations on what can be repaired by the consumer, burdening farmers with long equipment transport and wait times and resulting in losses of tens or even hundreds of thousands of dollars in potential yields.

¹ <https://www.justice.gov/atr/case-document/file/1568686/download>

² <https://oag.ca.gov/system/files/attachments/press-docs/3.24.2023%20Right%20to%20Repair%20Ltr.%20to%20Congress%20FINAL.pdf>, and Appendix B:

2) If some corporations' repair limitations are a problem, the consumer will go somewhere else: the free market will sort it out.

THE TRUTH: The market is so heavily monopolized, there isn't anywhere else for the consumer to go, so corporations have no fear of losing out to a competitor because they each do it with their own color.

3) The technology is too complicated for farmers to work with.

THE TRUTH: Farmers have been **safely** learning new technology since leaving the horse and plow behind, and they'll learn this too.

4) Manufacturers have the right to limit owners' use to protect their brand.

THE TRUTH: No, they don't. They sold that machine and no longer have any ownership rights to that specific product.

5) Repair tools enable or even promote tampering, which could be dangerous.

THE TRUTH: People tamper when they don't have the tools they need. Restoring their right to repair would actually REDUCE tampering because farmers would have the proper tools to fix their own equipment.

6) Widely available software will lead to software piracy and other violations of intellectual property.

THE TRUTH: The software used to repair is well controlled through public/private military-grade encryption.

So, we're left with the final argument Deere makes against formalizing a right to repair: It would make it harder for them to hire technicians and reduce the income of their dealers by breaking their stranglehold over the market.

For once, I agree with them -- they'll have to compete on the open market just like everybody else.

Finally, don't take my word for it just read John Deere's Operator's Manuals, well some of them, "A Repair shop or person of the owner's choosing may maintain, replace or repair emission control devices," see Appendix C:.



Letters to the Editor

Fact-Checking John Deere's Falsehoods: The Battle Over Right to Repair

3/23/2023 | 4:32 PM CDT <https://www.dtnpf.com/agriculture/web/ag/columns/letters-to-the-editor/article/2023/03/23/fact-checking-john-deeres-falsehoods?>

To the Editor:

Corporate farm equipment manufacturers like John Deere are restricting who can fix the tractors they sell, crushing farmers' consumer rights, costing them in time and lost revenue, and disrespecting the American legacy of innovation and self-sufficiency.

As consumer rights advocates battle with these corporations over the right to repair our own property, we confront the same myths again and again.

In agriculture, these myths are put forth by corporations like John Deere to maintain a stranglehold on the lucrative repair market. This is to the detriment of farmers and independent repair shops, which are the backbone of many rural economies.

I'd like to refute some of the most insidious myths I've seen. Over time, these myths have become entrenched in the minds of the media and even policymakers. Revealing them as the bogus corporate inventions they are is essential to restoring the rights of American farmers and consumers everywhere.

MYTH: Everything farmers need to make repairs is already provided.

THE TRUTH: There are significant limitations on what can be repaired by the consumer, burdening farmers with long equipment transport and wait times and resulting in losses of tens or even hundreds of thousands of dollars in potential yields.

MYTH: If some corporations' repair limitations are a problem, the consumer will go somewhere else: the free market will sort it out.

THE TRUTH: The market is so heavily monopolized, there isn't anywhere else for the consumer to go, so corporations have no fear of losing out to a competitor because they each do it with their own color.

MYTH: The technology is too complicated for farmers to work with.

THE TRUTH: Farmers have been learning new technology since leaving the horse and plow behind, and they'll learn this too.

MYTH: Manufacturers have the right to limit owners' use to protect their brand.

THE TRUTH: No, they don't. The First Sale doctrine is well established: When you buy a copyrighted work, you have the right to alter that copy. So, when you buy a tractor, you should be able to fix that tractor.

MYTH: Repair tools enable or even promote tampering, which could be dangerous.

THE TRUTH: People tamper when they don't have the tools they need. Restoring their right to repair would actually REDUCE tampering because farmers would have the proper tools to fix their own equipment.

MYTH: Right to repair will require people to fix their own stuff.

THE TRUTH: No one is being forced to stop using the dealerships. The right to repair gives Americans a chance to make their own choices. People can still choose to use the dealer.

MYTH: All dealer technicians are highly trained, skilled, and worth the hourly rate.

THE TRUTH: There are other highly trained, skilled, and worth-their-hourly-rate technicians working for independent shops. The owner of the equipment should have the right to choose which technician repairs the equipment they own.

MYTH: Widely available software will lead to software piracy and other violations of intellectual property.

THE TRUTH: The software used to repair is well controlled through public/private military-grade encryption.

So, we're left with the final argument Deere makes against formalizing a right to repair: It would make it harder for them to hire technicians and reduce the income of their dealers by breaking their stranglehold over the market.

For once, I agree with them -- they'll have to compete on the open market just like everybody else.

The right to repair is a no-brainer. A law codifying it would counterbalance the excessive power consolidated by global equipment manufacturers by requiring them to share basic diagnostic and repair tools with equipment owners and repair shops.

Ultimately, this will help restore innovation, flexibility, and economic opportunity to farmers and rural communities.

Willie Cade,

Farm Action Local Leader and right-to-repair advocate with Repair.org

Exhibit B:



March 24, 2023

Rep. Cathy McMorris Rodgers
Chair, House Energy and Commerce Committee

Rep. Frank Pallone
Ranking Member, House Energy and Commerce Committee

Senator Maria Cantwell
Chair, Committee on Commerce, Science, and Transportation

Senator Ted Cruz
Ranking Member, Committee on Commerce, Science, and Transportation

Dear Representative McMorris Rodgers, Representative Pallone, Senator Cantwell and Senator Cruz:

As our states' chief consumer protection and antitrust enforcers, we write to respectfully request that you redouble your efforts in the 118th Congress to pass expansive Right-to-Repair legislation targeted at automobiles, agricultural equipment, and digital electronic equipment to protect our consumers and farmers across the nation. The Right-to-Repair is a bipartisan issue that impacts every consumer, household, and farm in a time of increasing inflation. It is about ensuring that consumers have choices as to who, where, when and at what cost their vehicles can be repaired. It is about ensuring small automobile businesses and "mom-and-pop" auto shops can remain competitive against a closed system favored by original equipment manufacturers (OEMs). It is about ensuring that farmers can repair their tractors for a reasonable price and quickly enough to harvest their crops. It is about ensuring that consumers can fix their smartphones at small, independent repair shops for a fraction of the cost and time of sending their phone back to the OEM or replacing it. It is about ensuring that rural consumers can obtain important repairs locally and quickly. Ultimately, it is about safeguarding competition as a key part of our free market economy.

Manufacturing of automobiles, digital devices, and agricultural equipment is increasingly becoming more technologically advanced and built with more embedded electronics. OEMs often control access to these electronics parts, creating unfair restraint of trade and a monopoly on repair. This can harm consumers directly by driving up prices and is antithetical to a free market. The Federal Trade Commission (FTC) recently highlighted the myriad ways in which manufacturers and dealers, may

“without reasonable justification, be restricting competition for repair services.”¹ These methods include using adhesives that make parts difficult to replace, limiting the availability of parts and tools, or making diagnostic software unavailable. Some restrictions may even allow OEMs to monopolize certain repair markets and/or raise prices with impunity. For example, according to the United States Bureau of Labor Statistics, the cost of repairing a vehicle—an industry with more robust independent repair than many others—has increased by more than 66% since 2000.²

Recognizing this growing problem, legislators in the 117 Congress introduced at least three bills to address the issue federally: the Fair Repair Act (H.R. 4006),³ the Saving Money on Auto Repair Transportation Act (the SMART Act) (H.R. 3664),⁴ and the Right to Equitable and Professional Auto Industry Repair Act (REPAIR Act) (H.R. 6570).⁵

The Fair Repair Act, introduced in June 2021, would require OEMs to make available to independent repair providers and device owners the documentation, parts, and tools necessary to repair their products (excluding vehicles and medical devices). This bill would decrease repair costs for everyday consumers. Moreover, it would allow farmers—whose equipment is increasingly reliant on digital components—to make on-the-spot repairs once more (or have closer, more responsive, and less expensive independent servicers make repairs).⁶ This would lower farmers’ repair costs at a time when farm input and food prices are increasing, while avoiding the disruptions to planting and harvesting that an unexpected equipment failure and distant repair shop can entail.⁷

The SMART Act, introduced in June 2021, is a bipartisan bill to limit liability for infringement of a design patent based on appearance for a part of a vehicle’s exterior, such as a hood or a fender. It also creates a sunset provision on a design patent for an exterior component of an automobile if an otherwise-infringing part is used to repair or restore a vehicle. This commonsense legislation allows repair shops to use alternative or off-brand parts to repair vehicles, lowering the cost consumers pay to fix their vehicle.

Similarly, the REPAIR Act, introduced in February 2022, is a bipartisan proposed bill to require OEMs to provide a vehicle’s owner with certain data generated by the operation of the vehicle itself related to diagnostics, repair, calibration and service through a standardized access platform. The bill also would prevent OEMs from mandating specific brands of parts, tools, or equipment be used on a vehicle (absent a recall). This proposed legislation allows a vehicle’s owner to designate access of vehicle data to any repair shop or to personally retain the data.

¹https://www.ftc.gov/system/files/documents/public_statements/1592330/p194400repairrestrictionspolicystatement.pdf; https://www.ftc.gov/system/files/documents/reports/nixing-fix-ftc-report-congress-repair-restrictions/nixing_the_fix_report_final_5521_630pm-508_002.pdf

² U.S. Bureau of Labor Statistics, Consumer Price Index for All Urban Consumers: Motor Vehicle Maintenance and Repair in U.S. City Average [CUSR0000SETD], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/CUSR0000SETD>, September 16, 2022.

³ <https://www.congress.gov/bill/117th-congress/house-bill/4006/text>

⁴ <https://www.congress.gov/bill/117th-congress/house-bill/3664/text>

⁵ <https://www.congress.gov/bill/117th-congress/house-bill/6570>

⁶ We suggest that the Chairs look to the pending Agricultural Right to Repair Act (S. 3549) as another possible right to repair act or as a means of adding express agricultural right-to-repair to the Fair Repair Act. That said, the Fair Repair Act’s definition of covered devices encompasses agricultural equipment.

⁷ https://www.ftc.gov/system/files/documents/reports/nixing-fix-ftc-report-congress-repair-restrictions/nixing_the_fix_report_final_5521_630pm-508_002.pdf

Most importantly, the public wants Right-to-Repair legislation: In a national survey, the Car Coalition, a coalition of the independent auto parts manufacturing industry, insurers and other companies and associations involved in the auto repair industry, found that 78% of voters agreed with these types of Right-to-Repair legislation and 92% of voters agree that consumers should be able to choose between automaker branded and aftermarket car parts when making repairs.⁸ In a national survey of farmers by the U.S. PIRG Education Fund and National Farmers Union, 95% of farmers supported the Right-to-Repair their agricultural equipment.⁹ Finally, a 2021 Consumer Reports survey shows that around 75% off all consumers believe that the manufacturers should be required to make available to independent repair professionals and consumers the basic diagnostic information, tools, and replacement parts needed to make repairs of products generally.¹⁰ But despite widespread public support, none of these bills moved forward in the House of Representatives.

As State Attorneys General, we seek federal partners to provide necessary changes to the law that will better protect America's consumers, particularly at this time of economic uncertainty. Any law should include consumer protections to ensure consumers are receiving a safe repair and that sensitive consumer data that could be accessed and collected during a repair is appropriately protected. Accordingly, we urge you to take action to support Right to Repair legislation, with appropriate consumer protections.

Sincerely,



Kwame Raoul
Illinois Attorney General



Todd Rokita
Indiana Attorney General

⁸ <https://carcoalition.com/wp-content/uploads/2020/07/FTI-survey-release.pdf>

⁹ <https://pirg.org/edfund/resources/why-farmers-need-right-to-repair-2/>

¹⁰ Page 30,

https://article.images.consumerreports.org/prod/content/dam/surveys/Consumer_Reports_Right_to_Repair_Survey_2021



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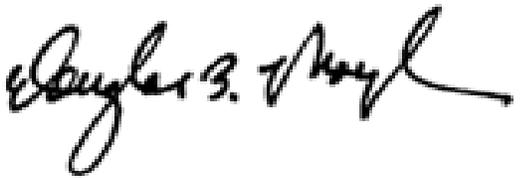
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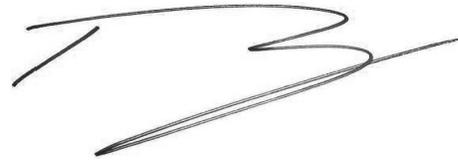
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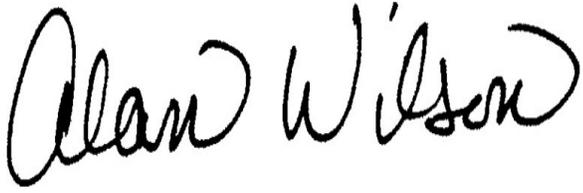
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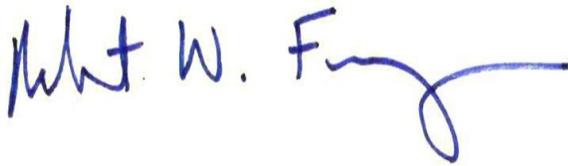
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40 CFR 1039.125 (f)

What maintenance instructions must I give to buyers?

Today

10/22/2022

No	Date	Text	Age	Ref URL	Comments
1	6/29/2004	(f) <i>Source of parts and repairs.</i> State clearly on the first page of your written maintenance instructions that a repair shop or person of the owner's choosing may maintain, replace, or repair emission-control devices and systems.	18.33	69 FR 39213 https://www.federalregister.gov/documents/2004/06/29/04-11293/control-of-emissions-of-air-pollution-from-nonroad-diesel-engines-and-fuel	
2	7/13/2005	(no change noted)	17.29	70 FR 40463 https://www.federalregister.gov/documents/2005/07/13/05-11534/test-procedures-for-testing-highway-and-nonroad-engines-and-omnibus-technical-amendments	
3	9/18/2007	(f) <i>Source of parts and repairs.</i> State clearly on the first page of your written maintenance instructions that a repair shop or person of the owner's choosing may maintain, replace, or repair emission-control devices and systems.	15.10	72 FR 53130 https://www.federalregister.gov/documents/2007/09/18/E7-18161/nonroad-diesel-technical-amendments-and-tier-3-technical-relief-provision	
4	10/8/2008	(no change noted)	14.05	73 FR 59191 https://www.federalregister.gov/documents/2008/10/08/E8-21093/control-of-emissions-from-nonroad-spark-ignition-engines-and-equipment	
5	4/30/2010	(no change noted)	12.49	75 FR 22989 https://www.federalregister.gov/documents/2010/04/30/2010-2534/control-of-emissions-from-new-marine-compression-ignition-engines-at-or-above-30-liters-per-cylinder	
6	8/8/2014	(no change noted)	8.21	79 FR 46373 https://www.federalregister.gov/documents/2014/08/08/2014-18738/emergency-vehicle-rule-scr-maintenance-and-regulatory-flexibility-for-nonroad-equipment	https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-phase-2-greenhouse-gas-emissions-standards#additional-resources
7	10/25/2016	(f) <i>Source of parts and repairs.</i> State clearly in your written maintenance instructions that a repair shop or person of the owner's choosing may maintain, replace, or repair emission-control devices and systems.	5.99	81 FR 74134 https://www.federalregister.gov/documents/2016/10/25/2016-21203/greenhouse-gas-emissions-and-fuel-efficiency-standards-for-medium--and-heavy-duty-engines-and	
8	Current	- eCFR devices and systems.	N/A	eCFR 1039.125#p-1039.125(f) https://www.ecfr.gov/current/title-40/chapter-I/subchapter-U/part-1039/subpart-B/section-1039.125#p-1039.125(f)	

Air, Fuel, Coolant, and Exhaust Maintenance

Required Emission-Related Information

Service Provider **John Deere 5100ML, etc. Operator's Manual, page 161 of PDF**

A qualified repair shop or person of the owner's choosing may maintain, replace, or repair emission control devices and systems with original or equivalent replacement parts. However, warranty, recall, and all other services paid for by John Deere must be performed at an authorized John Deere service center.

DX,EMISSIONS,REQINFO-19-12JUN15

Recommended Dealer Performed Service

Check Engine Coolant Properties

MAINTENANCE INTERVAL

Annually

Ask your John Deere dealer to check engine coolant properties. Use Cool-Gard™ II only if additional coolant is required.

Flush Cooling System and Replace Thermostat

MAINTENANCE INTERVAL

Every 4500 Hours if Cool-Gard™ II is used. Machine must be initially filled and only serviced with properly diluted Cool-Gard™ II coolant.

Every 2000 Hours if Cool-Gard™ II is not used.

Have your John Deere dealer flush the cooling system, replace thermostat, and fill the system with Cool-Gard™ II.

Drain and Flush Fuel Tank

MAINTENANCE INTERVAL

Every 300 Hours

If excessive amounts of water or dirt are found in the fuel filter and water separator, ask your John Deere dealer to drain and flush fuel tank.

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Check Engine and Exhaust Compartments for Debris

IMPORTANT: Directing pressurized water at electronic/electrical components, connectors, bearings and hydraulic seals, fuel injection pump or other sensitive components can cause product malfunctions. Reduce pressure and spray at a 45 to 90 degree angle.

Directing pressurized air at electronic/electrical components or connectors can cause buildup of static electricity and product malfunctions.

Never steam clean or pour cold water on an injection pump that is operating or hot. Pump could seize.

1. Shut off engine and allow to cool.
2. Open and raise engine hood.
3. Remove any crop or debris within engine and exhaust compartments, especially around turbocharger, exhaust manifold, and exhaust aftertreatment system.
4. Reinstall all shields. Close and securely latch hood.

DP51502,0002EA5-19-01NOV17

Clean Diesel Particulate Filter (DPF)

1. When exhaust filter and warning light indicators are illuminated, ensure that exhaust filter cleaning is set to "Auto".
2. Operate machine above 1200 rpm to allow an automatic exhaust filter cleaning to occur.
3. If indicators remain illuminated after an automatic cleaning has occurred, additional cleaning is required. Perform parked exhaust filter cleaning (if system allows). (See Air, Fuel, Coolant, and Exhaust Operation section for procedure.)
4. If a parked exhaust filter cleaning has been performed and exhaust filter and warning light indicators are still illuminated, contact your John Deere dealer.

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John Deere Equipment Models 1999+ and Ops Manuls

Inclusive		Note: There are multiple editions of manuals, most recent listed, North America versions, English editions										Blank	0 STD	0.25						
												None	130 Avg	75%						
No.	Type	Model ID	Start Date	End Date	Ops Manual ID	Title - First line(s)	US EPA Cert	Family	Model	Choosing Page	Total Pages	Percent	Choosing First Page	CARB Warning	Year Copyright	Reference of ECU Yes/No				
1	Sprayer	6700	1999	2009	OMN200815	Issue I0	6700 Self-Propelled Sprayer	(no reference)	(no reference)	None	374	N/A	No	Yes	2000	No				
2	Tractor	990	2000	2007	OMLVU10907	C0	Compact Utility Tractor with Gear Transmission 990	(not listed)	(not listed)	None	184	N/A	No	Yes	2000	No				
3	Tractor	5105	2000	2007	OMRE72817	Issue J5	5105 and 5205 Tractors	WJDXL02.9018	3029TF180	None	248	N/A	No	Yes	2005	No				
4	Tractor	5205	2000	2007	OMRE72817	Issue J5	5105 and 5205 Tractors	WJDXL02.9018	3029TF180	None	248	N/A	No	Yes	2005	No				
5	Tractor	4010	2002	2005	OMR30680	H1	4010 DIESEL AND GASOLINE WHEEL TRACTORS	(not listed)	(not listed)	None	84	N/A	No	No	None	No				
6	Tractor	4110	2002	2005	OMLVU13326	I3	Compact Utility Tractors 4110 and 4115	(not listed)	(not listed)	None	204	N/A	No	No	2003	No				
7	Tractor	4115	2002	2005	OMLVU13326	I4	Compact Utility Tractors 4110 and 4116	(not listed)	(not listed)	None	205	N/A	No	No	2004	No				
8	Tractor	6220	2002	2006	OMAL162071	Issue G5	6120, 6120L, 6220, 6220L, 6320, 6320L, 6420, 6420L and 6520L Tractors	(no reference)	(no reference)	None	358	N/A	No	Yes	2005	Yes				
9	Tractor	6603	2002	2007	OMRE226033	ISSUE H3	6403 and 6603 Tractors	(no reference)	(no reference)	None	252	N/A	No	Yes	2013	No				
10	Tractor	9120	2002	2007	OMAR228220	Issue A7	9120, 9220, 9320, 9420, 9520 and 9620 Tractors	(no reference)	(no reference)	None	418	N/A	No	Yes	2007	Yes				
11	Tractor	9420	2002	2007	OMAR228220	Issue A7	9120, 9220, 9320, 9420, 9520 and 9620 Tractors	(no reference)	(no reference)	None	418	N/A	No	Yes	2007	Yes				
12	Tractor	9420T	2002	2007	OMAR228229	Issue H6	9320T, 9420T, 9520T and 9620T Tractors	(no reference)	(no reference)	None	340	N/A	No	Yes	2006	Yes				
13	Tractor	2210	2003	2005	OMLVU14661	G3	Compact Utility Tractor 2210	(not listed)	(not listed)	None	80	N/A	No	Yes	2002	No				
14	Tractor	5103	2003	2008	OMRE268160	ISSUE L8	5103, 5203, 5303 and 5403 Tractors	WJDXL02.9018	3029TF180	None	204	N/A	No	Yes	2006	No				
15	Tractor	5203	2003	2008	OMRE268160	ISSUE L8	5103, 5203, 5303 and 5403 Tractors	WJDXL02.9018	3029TF180	None	204	N/A	No	Yes	2006	No				
16	Tractor	5303	2003	2008	OMRE268160	ISSUE L8	5103, 5203, 5303 and 5403 Tractors	WJDXL02.9018	3029TF180	None	204	N/A	No	Yes	2006	No				
17	Tractor	7220	2003	2007	OMAR224647	Issue K6	7220, 7320, 7420 and 7520 Tractors	(no reference)	(no reference)	None	372	N/A	No	Yes	2006	No				
18	Tractor	7320	2003	2007	OMAR224647	Issue K6	7220, 7320, 7420 and 7520 Tractors	(no reference)	(no reference)	None	372	N/A	No	Yes	2006	No				
19	Tractor	7420	2003	2007	OMAR224647	Issue K6	7220, 7320, 7420 and 7520 Tractors	(no reference)	(no reference)	None	372	N/A	No	Yes	2006	No				
20	Tractor	7520	2003	2007	OMAR224647	Issue K6	7220, 7320, 7420 and 7520 Tractors	(no reference)	(no reference)	None	372	N/A	No	Yes	2006	No				
21	Combine	9560	2004	2006	OMH219418	Issue H5	9560 and 9660 Combines	(no reference)	(no reference)	None	586	N/A	No	Yes	2006	Yes				
22	Combine	9560 STS	2004	2007	OMH225687	Issue B7	9560 STS Combine	(no reference)	(no reference)	None	670	N/A	No	Yes	2007	Yes				
23	Sprayer	4920	2004	2006	OMN300349	Issue J5	4920 Self-Propelled Sprayer	(no reference)	(no reference)	None	544	N/A	No	Yes	2005	Yes				
24	Tractor	4120	2004	2013	OMLVU17927	J7	Compact Utility Tractor 4120, 4320, 4520, 4720	(no reference)	(no reference)	None	116	N/A	No	Yes	2007	No				
25	Tractor	4320	2004	2013	OMLVU17927	J8	Compact Utility Tractor 4120, 4320, 4520, 4721	(no reference)	(no reference)	None	117	N/A	No	Yes	2008	No				
26	Tractor	4520	2004	2013	OMLVU17927	J9	Compact Utility Tractor 4120, 4320, 4520, 4722	(no reference)	(no reference)	None	118	N/A	No	Yes	2009	No				
27	Tractor	4720	2004	2013	OMLVU17927	J10	Compact Utility Tractor 4120, 4320, 4520, 4723	(no reference)	(no reference)	None	119	N/A	No	Yes	2010	No				
28	Tractor	7720	2004	2006	OMAR188670	Issue I5	7720, 7820 and 7920 Tractors	(no reference)	(no reference)	None	486	N/A	No	Yes	2005	Yes				
29	Tractor	7820	2004	2006	OMAR188670	Issue I5	7720, 7820 and 7920 Tractors	(no reference)	(no reference)	None	486	N/A	No	Yes	2005	Yes				
30	Sprayer	4720	2005	2007	OMN300549	Issue K6	4720 Self-Propelled Sprayer	(no reference)	(no reference)	None	540	N/A	No	Yes	2006	Yes				
31	Tractor	3120	2005	2008	OMLVU19809	L8	Compact Utility Tractor 3120, 3320, 3520, 3720	(not listed)	(not listed)	None	120	N/A	No	Yes	2007	No				
32	Tractor	3520	2005	2013	OMLVU19809	L10	Compact Utility Tractor 3120, 3320, 3520, 3722	(not listed)	(not listed)	None	122	N/A	No	Yes	2009	No				
33	Tractor	3720	2005	2013	OMLVU19809	L11	Compact Utility Tractor 3120, 3320, 3520, 3723	(not listed)	(not listed)	None	123	N/A	No	Yes	2010	No				
34	Tractor	5225	2005	2008	OMRE260579	ISSUE I0	5225, 5325, 5425, 5525 and 5625 Tractors	(no reference)	(no reference)	None	154	N/A	No	Yes	2020	No				
35	Tractor	5325	2005	2008	OMRE260579	ISSUE I0	5225, 5325, 5425, 5525 and 5625 Tractors	(no reference)	(no reference)	None	154	N/A	No	Yes	2020	No				
36	Tractor	5425	2005	2008	OMRE260579	ISSUE I0	5225, 5325, 5425, 5525 and 5625 Tractors	(no reference)	(no reference)	None	154	N/A	No	Yes	2020	No				
37	Tractor	5525	2005	2008	OMRE260579	ISSUE I0	5225, 5325, 5425, 5525 and 5625 Tractors	(no reference)	(no reference)	None	154	N/A	No	Yes	2020	No				
38	Tractor	2305	2006	2010	OMLVU23228	B0	Compact Utility Tractors 2305	(not listed)	(not listed)	None	80	N/A	No	Yes	2010	No				
39	Tractor	2320	2006	2012	OMLVU16740	E2	Compact Utility Tractor 2320	(not listed)	(not listed)	None	92	N/A	No	Yes	2009	No				
40	Tractor	2520	2006	2012	OMLVU19796	E2	Compact Utility Tractors 2520	(not listed)	(not listed)	None	88	N/A	No	Yes	2008	No				
41	Tractor	3320	2006	2008	OMLVU19809	L9	Compact Utility Tractor 3120, 3320, 3520, 3721	(not listed)	(not listed)	None	121	N/A	No	Yes	2008	No				
42	Tractor	8130	2006	2009	OMAR287583	ISSUE A9	8130, 8230, 8330, 8430 and 8530	(no reference)	(no reference)	None	414	N/A	No	Yes	2009	Yes				
43	Tractor	8230	2006	2009	OMAR287583	ISSUE A9	8130, 8230, 8330, 8430 and 8530	(no reference)	(no reference)	None	414	N/A	No	Yes	2009	Yes				
44	Tractor	8330	2006	2009	OMAR287583	ISSUE A9	8130, 8230, 8330, 8430 and 8530	(no reference)	(no reference)	None	414	N/A	No	Yes	2009	Yes				
45	Tractor	8430	2006	2009	OMAR287583	ISSUE A9	8130, 8230, 8330, 8430 and 8530	(no reference)	(no reference)	None	414	N/A	No	Yes	2009	Yes				
46	Tractor	8530	2006	2009	OMAR287583	ISSUE A9	8130, 8230, 8330, 8430 and 8530	(no reference)	(no reference)	None	414	N/A	No	Yes	2009	Yes				
47	Tractor	8330T	2006	2009	OMAR287619	ISSUE L8	8230T, 8330T and 8430T Series Tractors	(no reference)	(no reference)	None	302	N/A	No	Yes	2008	Yes				
48	Tractor	8330T	2006	2009	OMAR287619	ISSUE L8	8230T, 8330T and 8430T Series Tractors	(no reference)	(no reference)	None	302	N/A	No	Yes	2008	Yes				
49	Tractor	8430T	2006	2009	OMAR287619	ISSUE L8	8230T, 8330T and 8430T Series Tractors	(no reference)	(no reference)	None	302	N/A	No	Yes	2008	Yes				
50	Sprayer	4830	2007	2014	OMN405418	ISSUE L1	4730 and 4830 Self-Propelled Sprayer	(no reference)	(no reference)	None	474	N/A	No	Yes	2011	Yes				
51	Sprayer	4930	2007	2011	OMN401971	ISSUE F0	4930 Self-Propelled Sprayer	(no reference)	(no reference)	None	574	N/A	No	Yes	2010	Yes				
52	Tractor	5625	2007	2008	OMRE260579	ISSUE I0	5225, 5325, 5425, 5525 and 5625 Tractors	(no reference)	(no reference)	None	154	N/A	No	Yes	2020	No				
53	Tractor	7430	2007	2012	OMAL171429	ISSUE A2	Premium Tractors 7130, 7230, 7330, 7430 and 7530	(no reference)	(no reference)	None	350	N/A	No	Yes	2012	Yes				
54	Tractor	7730	2007	2011	OMRE325992	ISSUE C1	7630, 7730, 7830 and 7930 Tractors	(no reference)	(no reference)	None	444	N/A	No	Yes	2011	Yes				
55	Tractor	7830	2007	2011	OMRE325992	ISSUE C1	7630, 7730, 7830 and 7930 Tractors	(no reference)	(no reference)	None	444	N/A	No	Yes	2011	Yes				
56	Tractor	7930	2007	2011	OMRE325992	ISSUE C1	7630, 7730, 7830 and 7930 Tractors	(no reference)	(no reference)	None	444	N/A	No	Yes	2011	Yes				
57	Tractor	9230	2007	2011	OMRE325893	ISSUE C1	9230, 9330, 9430, 9530 and 9630 Tractors	(no reference)	(no reference)	None	428	N/A	No	Yes	2011	Yes				
58	Tractor	9330	2007	2011	OMRE325893	ISSUE C2	9230, 9330, 9430, 9530 and 9630 Tractors	(no reference)	(no reference)	None	429	N/A	No	Yes	2012	Yes				
59	Tractor	9430	2007	2011	OMRE325893	ISSUE C2	9230, 9330, 9430, 9530 and 9630 Tractors	(no reference)	(no reference)	None	429	N/A	No	Yes	2012	Yes				
60	Tractor	9530	2007	2011	OMRE325893	ISSUE C2	9230, 9330, 9430, 9530 and 9630 Tractors	(no reference)	(no reference)	None	429	N/A	No	Yes	2012	Yes				
61	Tractor	9630	2007	2011	OMRE325893	ISSUE C2	9230, 9330, 9430, 9530 and 9630 Tractors	(no reference)	(no reference)	None	429	N/A	No	Yes	2012	Yes				
62	Tractor	9430T	2007	2011	OMRE325897	ISSUE C1	9430T, 9530T and 9630T Tractors	(no reference)	(no reference)	None	362	N/A	No	Yes	2011	Yes				
63	Tractor	9530T	2007	2011	OMRE325897	ISSUE C1	9430T, 9530T and 9630T Tractors	(no reference)	(no reference)	None	362	N/A	No	Yes	2011	Yes				
64	Tractor	9630T	2007	2011	OMRE325897	ISSUE C1	9430T, 9530T and 9630T Tractors	(no reference)	(no reference)	None	362	N/A	No	Yes	2011	Yes				
65	Combine	9570 STS	2008	2011	OMHXE13768	ISSUE G9	9570 STS Combine	(no reference)	(no reference)	None	520	N/A	No	Yes	2009	Yes				
66	Combine	9670 STS	2008	2011	OMHXE22997	ISSUE G0	9670 STS and 9770 STS Combines	(no reference)	(no reference)	None	558	N/A	No	Yes	2010	Yes				
67	Combine	9770 STS	2008	2011	OMHXE22997	ISSUE G1	9670 STS and 9770 STS Combines	(no reference)	(no reference)	None	559	N/A	No	Yes	2011	Yes				
68	Combine	9870 STS	2008	2011	OMHXE22999	ISSUE G0	9870 STS Combine	(no reference)	(no reference)	None	534	N/A	No	Yes	2010	Yes				
69	Sprayer	4730	2008	2014	OMN405418	ISSUE L1	4730 and 4830 Self-Propelled Sprayer	(no reference)	(no reference)	None	474	N/A	No	Yes	2011	Yes				

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No.	Type	Model ID	Start Date	End Date	Ops Manual ID	Title - First line(s)	US EPA Cert	Family	Model	Choosing Page	Total Pages	Percent	Choosing First Page	CARB Warning	Year Copyright	Reference of ECU Yes/No	
97	Tractor	5101E	2009	2013	OMSI12914	ISSUE C4	5083E Limited, 5093E Limited and 5101E Limited (Tier 3) Tractors	(no reference)	(no reference)	None	126	N/A	No	Yes	2011	No	
98	Tractor	5105M	2009	2012	OMTR124423	ISSUE H2	5095M, 5105M, 5120M, and 5130M (FT4) Tractors	MJDXL09.0319	6090HFA03	198	320	62%	No	Yes	2022	Yes	
99	Tractor	6100D	2009	2012	OMRE283529	ISSUE K0	6100D, 6110D, 6115D, 6125D, 6130D and 6140D Tractors	(no reference)	(no reference)	None	294	N/A	No	Yes	2010	Yes	
100	Tractor	6115D	2009	2015	OMSU38638	ISSUE H4	6105D, 6115D, 6130D and 6140D Interim Tier IV Tractors,	(no reference)	(no reference)	None	300	N/A	No	Yes	2013	Yes	
101	Tractor	6130D	2009	2015	OMSU38638	ISSUE H4	6105D, 6115D, 6130D and 6140D Interim Tier IV Tractors,	(no reference)	(no reference)	None	300	N/A	No	Yes	2014	Yes	
102	Tractor	6140D	2009	2015	OMSU38638	ISSUE H4	6105D, 6115D, 6130D and 6140D Interim Tier IV Tractors,	(no reference)	(no reference)	None	300	N/A	No	Yes	2014	Yes	
103	Sprayer	4630	2010	2015	OMKK19656	ISSUE C4	4630 Self-Propelled Sprayer	(no reference)	(no reference)	None	454	N/A	No	Yes	2014	Yes	
104	Tractor	8245R	2010	2010	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
105	Tractor	8270R	2010	2010	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
106	Tractor	8295R	2010	2010	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
107	Tractor	8295RT	2010	2010	OMAR276060	ISSUE C1	8295RT, 8320RT and 8345RT Tractors	(no reference)	(no reference)	None	396	N/A	No	Yes	2011	Yes	
108	Tractor	8320R	2010	2010	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
109	Tractor	8320RT	2010	2010	OMAR276060	ISSUE C1	8295RT, 8320RT and 8345RT Tractors	(no reference)	(no reference)	None	396	N/A	No	Yes	2011	Yes	
110	Tractor	8345R	2010	2010	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
111	Tractor	8345RT	2010	2010	OMAR276060	ISSUE C1	8295RT, 8320RT and 8345RT Tractors	(no reference)	(no reference)	None	396	N/A	No	Yes	2011	Yes	
112	Tractor	1023E	2011	2021	OMLVU24604		Compact Utility Tractors 1023E, 1026R	Yanmar B	Yanmar D	None	84	N/A	No	Yes	2011	Yes	
113	Tractor	7215R	2011	2013	OMRE560402	ISSUE B3	7200R, 7215R, 7230R, 7260R and 7280R Tractors	(no reference)	(no reference)	None	602	N/A	No	Yes	2013	Yes	
114	Tractor	7230R	2011	2020	OMRE560402	ISSUE B3	7200R, 7215R, 7230R, 7260R, and 7280R	(no reference)	(no reference)	None	602	N/A	No	Yes	2013	Yes	
115	Tractor	8235R	2011	2014	OMRE564172	ISSUE B3	8235R, 8260R, 8285R, 8310R, 8335R and 8360R Tractors	(no reference)	(no reference)	None	522	N/A	No	Yes	2013	Yes	
116	Tractor	8260R	2011	2014	OMRE564172	ISSUE B3	8235R, 8260R, 8285R, 8310R, 8335R and 8360R Tractors	(no reference)	(no reference)	None	522	N/A	No	Yes	2013	Yes	
117	Tractor	8310R	2011	2014	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
118	Tractor	8310RT	2011	2014	OMRE560341	ISSUE A3	8310RT, 8335RT and 8360RT Tractors	(no reference)	(no reference)	None	434	N/A	No	Yes	2013	Yes	
119	Tractor	8335R	2011	2014	OMRE592061	(H8)	8245R, 8270R, 8295R, 8320R, 8335R, 8345R and 8370R Tractors	EIDX13.5300	6135HFC09A	504	532	95%	No	Yes	2018	Yes	
120	Tractor	8335RT	2011	2014	OMRE560341	ISSUE A3	8310RT, 8335RT and 8360RT Tractors	(no reference)	(no reference)	None	434	N/A	No	Yes	2013	Yes	
121	Tractor	8360R	2011	2014	OMRE564172	ISSUE B3	8235R, 8260R, 8285R, 8310R, 8335R and 8360R Tractors	(no reference)	(no reference)	None	522	N/A	No	Yes	2013	Yes	
122	Tractor	8360RT	2011	2014	OMRE560341	ISSUE A3	8310RT, 8335RT and 8360RT Tractors	(no reference)	(no reference)	None	434	N/A	No	Yes	2013	Yes	
123	Combine	S660	2012	2017	OMHXE75764	(G4)	S650, S660, S670, S680 and S690 Combines	(no reference)	(no reference)	None	802	N/A	No	Yes	2014	Yes	
124	Combine	S670	2012	2017	OMHXE75764	(G4)	S650, S660, S670, S680 and S690 Combines	(no reference)	(no reference)	None	802	N/A	No	Yes	2014	Yes	
125	Combine	S680	2012	2017	OMHXE75764	(G4)	S650, S660, S670, S680 and S690 Combines	(no reference)	(no reference)	None	802	N/A	No	Yes	2014	Yes	
126	Combine	S690	2012	2017	OMHXE75764	(G4)	S650, S660, S670, S680 and S690 Combines	(no reference)	(no reference)	None	802	N/A	No	Yes	2014	Yes	
127	Sprayer	4940	2012	2014	OMKK13308	ISSUE B3	4940 Self-Propelled Sprayer	(no reference)	(no reference)	None	606	N/A	No	Yes	2013	Yes	
128	Tractor	5100M	2012	2021	OMSU4598	ISSUE I7	5075M, 5090M, 5100M, 5100MH, 5100ML, 5115M, and 5115ML (FT4) Tractors	EIDX13.5300	6135HFC09A	242	390	62%	No	Yes	2017	Yes	
129	Tractor	6115R	2012	2015	OMAL212532	ISSUE K3	6105R, 6115R and 6125R Tractors	(no reference)	(no reference)	None	492	N/A	No	Yes	2013	Yes	
130	Tractor	6125R	2012	2015	OMAL212532	ISSUE K3	6105R, 6115R and 6125R Tractors	(no reference)	(no reference)	None	492	N/A	No	Yes	2013	Yes	
131	Tractor	6140R	2012	2015	OMAL211531	ISSUE F4	Tractors 6140R, 6150R, 6150RH, 6170R, 6190R and 6210R	(no reference)	(no reference)	None	554	N/A	No	Yes	2014	Yes	
132	Tractor	6170R	2012	2014	OMAL211531	ISSUE F4	Tractors 6140R, 6150R, 6150RH, 6170R, 6190R and 6210R	(no reference)	(no reference)	None	554	N/A	No	Yes	2014	Yes	
133	Tractor	6190R	2012	2014	OMAL211531	ISSUE F4	Tractors 6140R, 6150R, 6150RH, 6170R, 6190R and 6210R	(no reference)	(no reference)	None	554	N/A	No	Yes	2014	Yes	
134	Tractor	6210R	2012	2014	OMAL211531	ISSUE F4	Tractors 6140R, 6150R, 6150RH, 6170R, 6190R and 6210R	(no reference)	(no reference)	None	554	N/A	No	Yes	2014	Yes	
135	Tractor	9360R	2012	2014	OMRE560318	ISSUE B3	9360R, 9410R, 9460R, 9510R and 9560R Tractors	(no reference)	(no reference)	None	518	N/A	No	Yes	2013	Yes	
136	Tractor	9410R	2012	2014	OMRE560318	ISSUE B3	9360R, 9410R, 9460R, 9510R and 9560R Tractors	(no reference)	(no reference)	None	518	N/A	No	Yes	2013	Yes	
137	Tractor	9460R	2012	2014	OMRE560318	ISSUE B3	9360R, 9410R, 9460R, 9510R and 9560R Tractors	(no reference)	(no reference)	None	518	N/A	No	Yes	2013	Yes	
138	Tractor	9460RT	2012	2014	OMRE560321	ISSUE B3	9460RT, 9510RT and 9560RT Scrapper Tractors	(no reference)	(no reference)	None	452	N/A	No	Yes	2013	Yes	
139	Tractor	9510R	2012	2014	OMRE560318	ISSUE B3	9360R, 9410R, 9460R, 9510R and 9560R Tractors	(no reference)	(no reference)	None	518	N/A	No	Yes	2013	Yes	
140	Tractor	9510RT	2012	2014	OMRE560321	ISSUE B3	9460RT, 9510RT and 9560RT Scrapper Tractors	(no reference)	(no reference)	None	452	N/A	No	Yes	2013	Yes	
141	Tractor	9560R	2012	2014	OMRE560318	ISSUE B3	9360R, 9410R, 9460R, 9510R and 9560R Tractors	(no reference)	(no reference)	None	518	N/A	No	Yes	2013	Yes	
142	Tractor	9560RT	2012	2014	OMRE560321	ISSUE B3	9460RT, 9510RT and 9560RT Scrapper Tractors	(no reference)	(no reference)	None	452	N/A	No	Yes	2013	Yes	
143	Tractor	1025R	2013	2021	OMLVU28480	ISSUE H5	1023E and 1025R Compact Utility Tractors	(no reference)	(no reference)	None	74	128	58%	No	Yes	2015	No
144	Tractor	2025R	2013	2021	OMLVU28128	ISSUE I5	2025R and 2032R Compact	(no reference)	(no reference)	None	78	132	59%	No	Yes	2015	No
145	Tractor	2032R	2013	2021	OMLVU28128	ISSUE I5	2025R and 2032R Compact	(no reference)	(no reference)	None	78	132	59%	No	Yes	2015	No
146	Tractor	5085E	2013	2017	OMSI14615	ISSUE H5	5085E and 5100E (IT4)	(no reference)	(no reference)	None	158	256	62%	No	Yes	2015	Yes
147	Tractor	5100E	2013	2021	OMSI14615	ISSUE H5	5085E and 5100E (IT4)	(no reference)	(no reference)	None	158	256	62%	No	Yes	2015	Yes
148	Tractor	6105D	2013	2015	OMSU38638	ISSUE H4	6105D, 6115D, 6130D and 6140D Interim Tier IV Tractors,	(no reference)	(no reference)	None	300	N/A	No	Yes	2013	Yes	
149	Combine	S650	2014	2017	OMHXE75764	(G4)	S650, S660, S670, S680 and S690 Combines	(no reference)	(no reference)	None	802	N/A	No	Yes	2014	Yes	
150	Sprayer	R4030	2014	2021	OMKK41820	ISSUE H8	R4030, R4038, and R4045 Self-Propelled Sprayer/Spreader	EIDX13.5301	6135HFC09A	658	866	76%	No	Yes	2018	Yes	
151	Sprayer	R4038	2014	2021	OMKK41820	ISSUE H8	R4030, R4038, and R4045 Self-Propelled Sprayer/Spreader	EIDX13.5301	6135HFC09A	658	866	76%	No	Yes	2018	Yes	
152	Tractor	6105M	2014	2016	OMAL213158	ISSUE F4	6105M, 6115M, 6125M, and 6140M	(no reference)	(no reference)	None	430	N/A	No	Yes	2014	Yes	
153	Tractor	6105R	2014	2015	OMAL212532	ISSUE K3	6105R, 6115R and 6125R Tractors	(no reference)	(no reference)	None	492	N/A	No	Yes	2013	Yes	
154	Tractor	6115M	2014	2016	OMAL213158	ISSUE F4	6105M, 6115M, 6125M, and 6140M	(no reference)	(no reference)	None	430	N/A	No	Yes	2014	Yes	
155	Tractor	6125M	2014	2016	OMAL213158	ISSUE F4	6105M, 6115M, 6125M, and 6140M	(no reference)	(no reference)	None	430	N/A	No	Yes	2014	Yes	
156	Tractor	6140M	2014	2015	OMAL229717	ISSUE J2	Tractors 6130M, 6140M, and 6145M	MJDXL09.0319	6090HFA03	490	688	71%	No	Yes	2022	Yes	
157	Tractor	6170M	2014	2015	OMAL213190	ISSUE F4	6150M and 6170M Tractors	(no reference)	(no reference)	None	386	N/A	No	Yes	2013	Yes	
158	Tractor	7210R	2014	2020	OMRE592218	ISSUE H8	7R Tractors	EIDX13.5300	6135HFC09A	521	548	95%	No	Yes	2018	Yes	
159	Tractor	7250R	2014	2020	OMRE592218	ISSUE H8	7R Tractors	EIDX13.5300	6135HFC09A	521	548	95%	No	Yes	2018	Yes	
160	Tractor	7270R	2014	2020	OMRE592218	ISSUE H8	7R Tractors	EIDX13.5300	6135HFC09A	521	548	95%	No	Yes	2018	Yes	
161	Tractor	7290R	2014	2020	OMRE592218	ISSUE H8	7R Tractors	EIDX13.5300	6								

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No.	Type	Model ID	Start Date	End Date	Ops Manual ID	Title - First line(s)	US EPA Cert	Family	Model	Choosing Page	Total Pages	Percent	Choosing First Page	CARB Warning	Year Copyright	Reference of ECU	Yes/No					
193	Tractor	9570RT	2015	2021	OMRE596897 (H0)	9RT Tractors (Serial No. 921001-)	EIDX13.5301	6135HFC09A	366	404	91%	No	Yes	2020	Yes	2020	Yes					
194	Tractor	9620R	2015	2021	OMRE569049 (H5)	9370R, 9420R, 9470R, 9520R, 9570R AND 9620R tractors	EIDX13.5300	6135HFC09A	542	578	94%	No	Yes	2017	Yes	2017	Yes					
195	Sprayer	R4023	2016	2021	OMKK32686 ISSUE F6	R4023 Self-Propelled Sprayer	EIDX13.5300	6135HFC09A	362	548	66%	No	Yes	2016	Yes	2016	Yes					
196	Tractor	6155R	2016	2021	OMAL218252 ISSUE K6	6145R, 6155R, 6155RH, 6175R, 6195R and 6215R Tractors	EIDX13.5300	6135HFC09A	595	780	76%	No	Yes	2016	Yes	2016	Yes					
197	Tractor	6195R	2016	2021	OMAL218252 ISSUE K6	6145R, 6155R, 6155RH, 6175R, 6195R and 6215R Tractors	EIDX13.5300	6135HFC09A	595	780	76%	No	Yes	2016	Yes	2016	Yes					
198	Tractor	7310R	2016	2020	OMRE592218 ISSUE H8	7R Tractors	EIDX13.5300	6135HFC09A	521	548	95%	No	Yes	2018	Yes	2018	Yes					
199	Tractor	9470RX	2016	2021	OMRE596861 (H0)	9RX Tractors (Serial No. 811001-)	EIDX13.5300	6135HFC09A	362	400	91%	No	Yes	2020	Yes	2020	Yes					
200	Tractor	9520RX	2016	2021	OMRE596861 (H0)	9RX Tractors (Serial No. 811001-)	EIDX13.5300	6135HFC09A	362	400	91%	No	Yes	2020	Yes	2020	Yes					
201	Tractor	9570RX	2016	2021	OMRE596861 (H0)	9RX Tractors (Serial No. 811001-)	EIDX13.5300	6135HFC09A	362	400	91%	No	Yes	2020	Yes	2020	Yes					
202	Tractor	9620RX	2016	2021	OMRE584633	9RX Tractors (Serial No. 800000-)	EIDX13.5300	6135HFC09A	495	532	93%	No	Yes	2016	Yes	2016	Yes					
203	Tractor	2038R	2017	2021	OMLVU31185 ISSUE H8	2032R and 2038R	(no reference)	(no reference)	92	160	58%	No	Yes	2018	Yes	2018	Yes					
204	Tractor	3025E	2017	2021	OMLVU31846 ISSUE H6	3025E, 3032E, and 3038E	(no reference)	(no reference)	87	144	60%	No	Yes	2016	Yes	2016	Yes					
205	Tractor	3033R	2017	2021	OMLVU29135 ISSUE E4	3033R, 3039R and 3046R	(no reference)	(no reference)	116	180	64%	No	Yes	2014	Yes	2014	Yes					
206	Tractor	3039R	2017	2021	OMLVU29135 ISSUE E4	3033R, 3039R and 3046R	(no reference)	(no reference)	116	180	64%	No	Yes	2015	Yes	2015	Yes					
207	Tractor	3046R	2017	2021	OMLVU29135 ISSUE E4	3033R, 3039R and 3046R	(no reference)	(no reference)	116	180	64%	No	Yes	2016	Yes	2016	Yes					
208	Tractor	4044M	2017	2021	OMLVU32267 ISSUE H6	4044M, 4044R, 4052M, 4052R, 4066M, and 4066R	(no reference)	(no reference)	144	218	66%	No	Yes	2016	Yes	2016	Yes					
209	Tractor	4044R	2017	2021	OMLVU32267 ISSUE H6	4044M, 4044R, 4052M, 4052R, 4066M, and 4066R	(no reference)	(no reference)	144	218	66%	No	Yes	2016	Yes	2016	Yes					
210	Tractor	4052M	2017	2021	OMLVU32267 ISSUE H6	4044M, 4044R, 4052M, 4052R, 4066M, and 4066R	(no reference)	(no reference)	144	218	66%	No	Yes	2016	Yes	2016	Yes					
211	Tractor	4052R	2017	2021	OMLVU32267 ISSUE H6	4044M, 4044R, 4052M, 4052R, 4066M, and 4066R	(no reference)	(no reference)	144	218	66%	No	Yes	2016	Yes	2016	Yes					
212	Tractor	4066M	2017	2021	OMLVU32267 ISSUE H6	4044M, 4044R, 4052M, 4052R, 4066M, and 4066R	(no reference)	(no reference)	144	218	66%	No	Yes	2016	Yes	2016	Yes					
213	Tractor	4066R	2017	2021	OMLVU32267 ISSUE H6	4044M, 4044R, 4052M, 4052R, 4066M, and 4066R	(no reference)	(no reference)	144	218	66%	No	Yes	2016	Yes	2016	Yes					
214	Tractor	5075GN	2017	2021	OMER444695 ISSUE B9	5075GV, 5090GV, 5075GN, 5090GN, 5100GN, and 5075GL Tractors	EIDX13.5300	6135HFC09A	None	332	N/A	No	Yes	2019	Yes	2019	Yes					
215	Tractor	5075GV	2017	2021	OMER444695 ISSUE B9	5075GV, 5090GV, 5075GN, 5090GN, 5100GN, and 5075GL Tractors	EIDX13.5301	6135HFC09A	None	332	N/A	No	Yes	2019	Yes	2019	Yes					
216	Tractor	5090GN	2017	2021	OMER444695 ISSUE B9	5075GV, 5090GV, 5075GN, 5090GN, 5100GN, and 5075GL Tractors	EIDX13.5302	6135HFC09A	None	332	N/A	No	Yes	2019	Yes	2019	Yes					
217	Tractor	5090GV	2017	2021	OMER444695 ISSUE B9	5075GV, 5090GV, 5075GN, 5090GN, 5100GN, and 5075GL Tractors	EIDX13.5303	6135HFC09A	None	332	N/A	No	Yes	2019	Yes	2019	Yes					
218	Tractor	5090M	2017	2021	OMSU54598 ISSUE I7	5075M, 5090M, 5100M, 5100MH, 5100ML, 5115M, and 5115ML (FT4) Tractors	EIDX13.5304	6135HFC09A	242	390	62%	No	Yes	2017	Yes	2017	Yes					
219	Tractor	5090R	2017	2021	OMSU53451 ISSUE D8	5090R, 5100R, 5115R, and 5125R (FT4)	EIDX13.5305	6135HFC09A	192	312	62%	No	Yes	2018	Yes	2018	Yes					
220	Tractor	5100GN	2017	2021	OMER444695 ISSUE B9	5075GV, 5090GV, 5075GN, 5090GN, 5100GN, and 5075GL Tractors	EIDX13.5306	6135HFC09A	None	332	N/A	No	Yes	2019	Yes	2019	Yes					
221	Tractor	5100ML	2017	2021	OMSU54598 ISSUE I7	5075M, 5090M, 5100M, 5100MH, 5100ML, 5115M, and 5115ML (FT4) Tractors	EIDX13.5307	6135HFC09A	242	390	62%	No	Yes	2017	Yes	2017	Yes					
222	Tractor	5100R	2017	2021	OMSU53451 ISSUE D8	5090R, 5100R, 5115R, and 5125R (FT4)	EIDX13.5308	6135HFC09A	192	312	62%	No	Yes	2018	Yes	2018	Yes					
223	Tractor	5115M	2017	2021	OMSU54598 ISSUE I7	5075M, 5090M, 5100M, 5100MH, 5100ML, 5115M, and 5115ML (FT4) Tractors	EIDX13.5309	6135HFC09A	242	390	62%	No	Yes	2017	Yes	2017	Yes					
224	Tractor	5115ML	2017	2021	OMSU54598 ISSUE I7	5075M, 5090M, 5100M, 5100MH, 5100ML, 5115M, and 5115ML (FT4) Tractors	EIDX13.5310	6135HFC09A	242	390	62%	No	Yes	2017	Yes	2017	Yes					
225	Tractor	5115R	2017	2021	OMSU53451 ISSUE D8	5090R, 5100R, 5115R, and 5125R (FT4)	EIDX13.5311	6135HFC09A	192	312	62%	No	Yes	2018	Yes	2018	Yes					
226	Tractor	5125R	2017	2021	OMSU53451 ISSUE D8	5090R, 5100R, 5115R, and 5125R (FT4)	EIDX13.5312	6135HFC09A	192	312	62%	No	Yes	2018	Yes	2018	Yes					
227	Tractor	8400R	2017	2020	OMRE591961 (H8)	8RT Series Tractors (Serial No. 920001-)	EIDX13.5300	6135HFC09A	381	408	93%	No	Yes	2018	Yes	2018	Yes					
228	Combine	5760	2018	2021	OMDXE11176 (F1)	5760, 5770, 5780, and 5790 Combines	MJDXL09.0319	6090HFA03	604	740	82%	No	Yes	2021	Yes	2021	Yes					
229	Combine	5770	2018	2021	OMDXE11176 (F1)	5760, 5770, 5780, and 5790 Combines	MJDXL09.0319	6090HFA03	604	740	82%	No	Yes	2021	Yes	2021	Yes					
231	Combine	5790	2018	2021	OMDXE11176 (F1)	5760, 5770, 5780, and 5790 Combines	MJDXL09.0319	6090HFA03	604	740	82%	No	Yes	2021	Yes	2021	Yes					
232	Sprayer	DT510	2018	2020	(UNAVAILABLE)	"Error downloading content file"	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)					
233	Sprayer	ST510	2018	2020	(UNAVAILABLE)	Technical Manual - All inclusive	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)					
234	Sprayer	ST512	2018	2020	OMKK90551	ST512, ST516, ST520 Self-Propelled	MJDXL09.0319	6090HFA03	383	560	68%	No	Yes	2021	Yes	2021	Yes					
235	Sprayer	ST514	2018	2020	OMKK90551	ST512, ST516, ST520 Self-Propelled	MJDXL09.0319	6090HFA03	383	560	68%	No	Yes	2021	Yes	2021	Yes					
236	Sprayer	ST516	2018	2020	OMKK90551	ST512, ST516, ST520 Self-Propelled	MJDXL09.0319	6090HFA03	383	560	68%	No	Yes	2021	Yes	2021	Yes					
237	Tractor	5090EL	2018	2021	OMSU54538 ISSUE C1	5090E, 5090EL, and 5100E (FT4) Tractors	MJDXL09.0320	6090HFA03	169	300	56%	No	Yes	2021	Yes	2021	Yes					
238	Tractor	5100MH	2018	2019	OMSU54598 ISSUE I7	5075M, 5090M, 5100M, 5100MH, 5100ML, 5115M, and 5115ML (FT4) Tractors	EIDX13.5300	6135HFC09A	242	390	62%	No	Yes	2017	Yes	2017	Yes					
239	Tractor	9420RX	2018	2021	OMRE596861 (H0)	9RX Tractors (Serial No. 811001-)	EIDX13.5300	6135HFC09A	362	400	91%	No	Yes	2020	Yes	2020	Yes					
240	Sprayer	R4044	2019	2021	OMKK51056 ISSUE H8	R4030, R4038, R4044, and R4045 Self-Propelled Sprayer/Spreader	JDXL09.0308	6090C1550A	477	652	73%	No	Yes	2018	Yes	2018	Yes					
241	Tractor	5090E	2019	2021	OMSU54538 ISSUE C1	5090E, 5090EL, and 5100E (FT4) Tractors	MJDXL09.0320	6090HFA03	169	300	56%	No	Yes	2021	Yes	2021	Yes					
242	Tractor	6135E	2019	2019	OMSU65872 ISSUE C2	6105E, 6120E, 6120EH and 6135E Final Tier IV Tractors	FIDX10.5305	4045HP073	170	288	59%	No	Yes	2022	Yes	2022	Yes					
243	Tractor	3025D	2020	2021	OMSI32078 ISSUE A1	3025D, 3035D and 3043D Tractors,	(no reference)	(no reference)	None	176	N/A	No	Yes	2021	Yes	2021	Yes					
244	Tractor	3035D	2020	2021	OMSI32078 ISSUE A1	3025D, 3035D and 3043D Tractors,	(no reference)	(no reference)	None	176	N/A	No	Yes	2021	Yes	2021	Yes					
245	Tractor	6230R	2020	2021	OMAL228760 ISSUE L1	6230R and 6250R	MJDXL09.0320	6090HFA03	407	588	69%	No	Yes	2021	Yes	2021	Yes					
246	Tractor	6250R	2020	2021	OMAL228760 ISSUE L1	6230R and 6250R	MJDXL09.0320	6090HFA03	407	588	69%	No	Yes	2021	Yes	2021	Yes					
247	Tractor	7R210	2020	2021	OMTA22619 ISSUE G1	7R Tractors	MJDXL09.0320	6090HFA03	451	476	95%	No	Yes	2021	Yes	2021	Yes					
248	Tractor	7R230	2020	2021	OMTA17289 ISSUE H0	7R 210, 7R 230, 7R 250, 7R 270, 7R 290, 7R 310, 7R 330	JDXL09.0308	6090C1550A	453	476	95%	No	Yes	2020	Yes	2020	Yes					
249	Tractor	7R250	2020	2021	OMTA17289 ISSUE H0	7R 210, 7R 230, 7R 250, 7R 270, 7R 290, 7R 310, 7R 330	JDXL09.0308	6090C1550A	453	476	95%	No	Yes	2020	Yes	2020	Yes					
250	Tractor	7R270	2020	2021	OMTA17289 ISSUE H0	7R 210, 7R 230, 7R 250, 7R 270, 7R 290, 7R 310, 7R 330	JDXL09.0308															

Willie Cade



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CEO Graceful Solutions

A Chicago based real estate development and management consulting firm specializing in twenty first century data centers that are more verdant and serve the community

Regional Director and Board Member of Repair.org Advocating for Right to Repair legislation. I am the board member focusing on agriculture issues. Member of the Nebraska Farm Bureau and Nebraska Farmers Union.

YouTube Channel: DeereFacts

Educational content about Right to Repair so Producers own their equipment and it doesn't own them. (<https://www.youtube.com/channel/UCL8mrwisvetDcBG7cy4wiSw>)

Voting member of several electronic sustainability standards.

Actively participating in the creation of ULE 110 3.0. Have participated in 3 other sustainability focus consensus standards, R2, NSF 487 and IEEE 1601.1.

Founder and Chief Executive Officer PC Rebuilders & Recyclers (Founded in 2000) home of the Computers for Schools Program

Mission: To contribute to sustainability and to bridge the digital divide by reusing or recycling used computing equipment. Business closed June 2017

Original Microsoft Authorized Refurbisher (MAR):

Chosen by Microsoft as one of the first Community Microsoft Authorized Refurbisher of five in the United States.

Conference founder

Electronics Reuse Conference: ERC (formerly: International Computer Refurbisher Summit) since 2004. In 2012 ERC expanded internationally.

P.A.C.E. Stakeholder and Co-Chair of Environmentally Sound Testing, Refurbishment and Repair of Used Computing Equipment Project Group

The Partnership for Action on Computing Equipment of the Secretariat of the Basel Convention of the United Nations Environmental Program.

Adjunct Faculty, University of Illinois Urbana/Champaign

Designed and taught "Sustainable Life Cycle Design" in the Department of Art and Design. Co-Principal investigator on several National Science Foundation grants.

Provided testimony before the House Committee on Science and Technology for the 111th Congress on electronic reuse

Winner of the Jim Lynch award

The computer refurbishment industry's highest honor.

Appointee to Caterpillar's external sustainability advisory board, (retired)

Advisor to promote their mission of enabling economic growth through infrastructure and energy development, and to provide solutions that support communities and protect the planet. Participated in the creation of Caterpillar's 5th value; sustainability.

Co-author of 9 academic papers on Sustainability of Used Electronics. Our first publication was in 2015. We have also submitted 4 additional full conference papers. Researcher of software vulnerabilities.

Chair of the Board of Montgomery Place (retired). A retirement facility owned by the Episcopal Diocese of Chicago. After first year of membership I was name treasure and then became Chairman. (I forgot **not** to ask questions)

Personal

Education: BS Chemistry with honors, University of Hawaii—Manoa, Language studies at La Sorbonne Université—Paris, Amateur standup comedian, President-elect (aka Junior Warden) of Church of Our Saviour—Episcopal, and Level 1 WISE certified Cell repair tech. Grandson of Theo Brown famed John Deere engineer who accumulate 158 patents and served on the board of directors of John Deere for 30 years. Auctioneer for charity fund raisers. Parent to four grown children, and very proud grandfather of two. A granddaughter and grandson. Married to Carol Cade for 45+ years.