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International 3104, 3105 and 3106 Rotary Mowers

Service Manual

GSS-1494

CASE IH

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Contents

	Page
Safe Work Rules	IV
Standard Torque Data for Nuts and Bolts	VI
Metric Conversion Tables	VIII
ANGLE DRIVE	1
CUTTER BAR	8
DRIVE PULLEY ASSEMBLY	15
HYDRAULIC CYLINDER	17
PTO DRIVE TRAIN	20
KNIFE AND DISC SERVICE	24
GUIDE RAILS	25

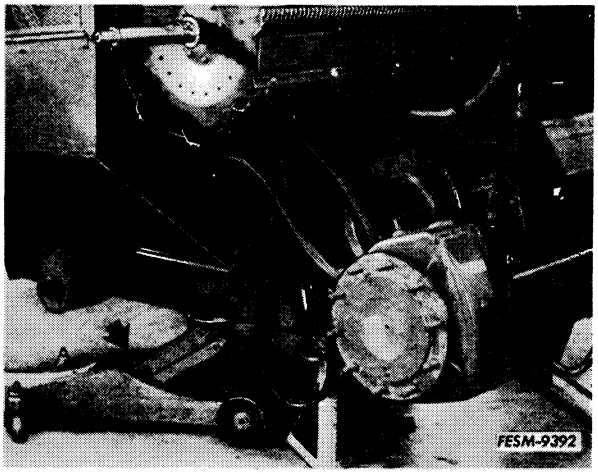
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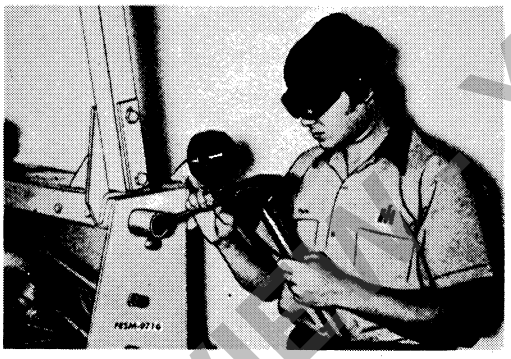
WORK SAFELY – FOLLOW THESE RULES

This symbol is used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.

1. To prevent injury, do not allow children or by-standers around the machine while it is being adjusted and/or serviced.



2. Always use safety stands in conjunction with hydraulic jacks or hoists. Do not rely on the jack or hoist to carry the load, they could fail.

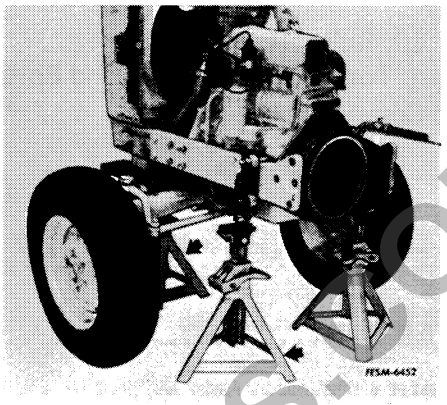


3. Always wear safety glasses when using a hammer, chisel or other tools that may cause chips to fly.

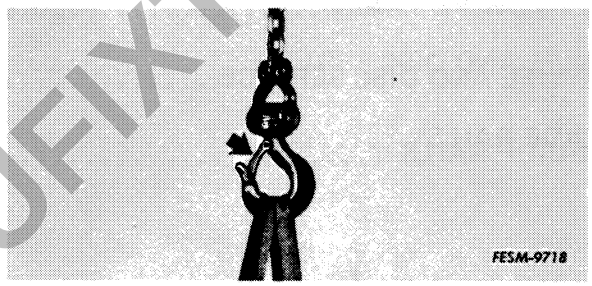
4. Keep work area organized and clean. Wipe up oil or spills of any kind. Keep tools and parts off of the floor. Eliminate the possibility of a fall which could result in a serious injury.

5. Be sure to reinstall safety devices, guards or shields after adjusting and/or servicing the machine.

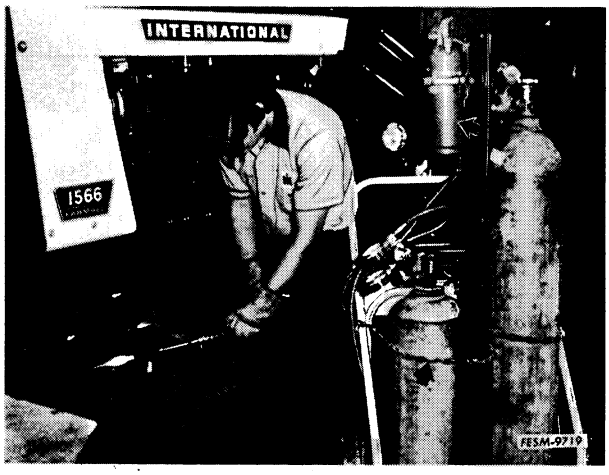
6. After servicing, be sure all tools, parts, or servicing equipment are removed from the machine.



7. When splitting tractors, or disassembling machines, be sure to use safety stands and adequate supports to prevent tipping or rollover.



8. Use a safety catch on all hoist hooks. Do not take a chance, the load could slip off of the hook.



9. When using an acetylene torch always wear welding goggles and gloves. Keep a "charged" fire extinguisher within reach. Be sure the acetylene and oxygen tanks are separated by a metal shield and are chained to the cart. Do not weld or heat areas near fuel tanks or fuel lines and utilize proper shielding around hydraulic lines.

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STANDARD TORQUE DATA FOR NUTS AND BOLTS— FOOT POUNDS

Recommended torque for all Standard Application Nuts and Bolts, provided:

A. All thread surfaces are clean and lubricated with SAE-30 engine oil. (See NOTE.)

B. Joints are rigid, that is, no gaskets or compressible materials are used.

C. When reusing nuts or bolts use minimum torque values.

NOTE: Multiply the standard torque by:

.65 when finished jam nuts are used.
.70 when Molykote, white lead or similar mixtures are used as lubricants.
.75 when parkerized bolts or nuts are used.
.85 when cadmium plated bolts or nuts and zinc bolts w/waxed zinc nuts are used.
.90 when hardened surfaces are used under the nut or bolt head.

1 FOOT POUND = 1.355 NEWTON METERS

Bolt or Stud Diameter		Type 1 Studs Only		Type 1 Bolts 6" length or less		Type 1 Bolts longer than 6"		Type 5 (all lengths)		Type 8 (all lengths)			
										Only when used† in cast (gray) iron		All other applications	
Inches	MM	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.4	5	6	5	6	3	3	9	10	11	13	12	14
5/16	8.0	12	13	12	13	6	7	19	21	24	27	27	30
3/8	9.5	21	24	21	24	11	13	33	37	43	47	45	50
7/16	11.1	35	38	35	38	19	21	53	60	69	76	75	85
1/2	12.7	52	58	52	58	29	32	80	90	104	117	115	130
9/16	14.3	70	80	70	80	41	46	115	130	150	170	165	185
5/8	15.9	98	110	98	110	57	63	160	180	210	230	220	250
3/4	19.0	174	195	174	195	100	112	290	320	350	390	400	450
7/8	22.2	300	330	162	181	162	181	420	470	570	630	650	730
1	25.4	420	470	250	270	250	270	630	710	850	950	970	1090
1-1/8	28.6	600	660	350	380	350	380	850	950	1200	1350	1380	1550
1-1/4	31.8	840	940	490	540	490	540	1200	1350	1700	1900	1940	2180
1-3/8	34.9	1100	1230	640	710	640	710	1570	1760	2300	2500	2600	2800
1-1/2	38.1	1470	1640	850	940	850	940	2000	2300	3000	3300	3300	3700
1-3/4	44.5	2350	2450	1330	1490	1330	1490	3300	3700	4700	5200	5300	6000
2	50.8	3500	3900	2000	2200	2000	2200	5000	5500	7000	7800	8000	9000

†When bolt penetration is 1-1/2 times the diameter of the bolt.

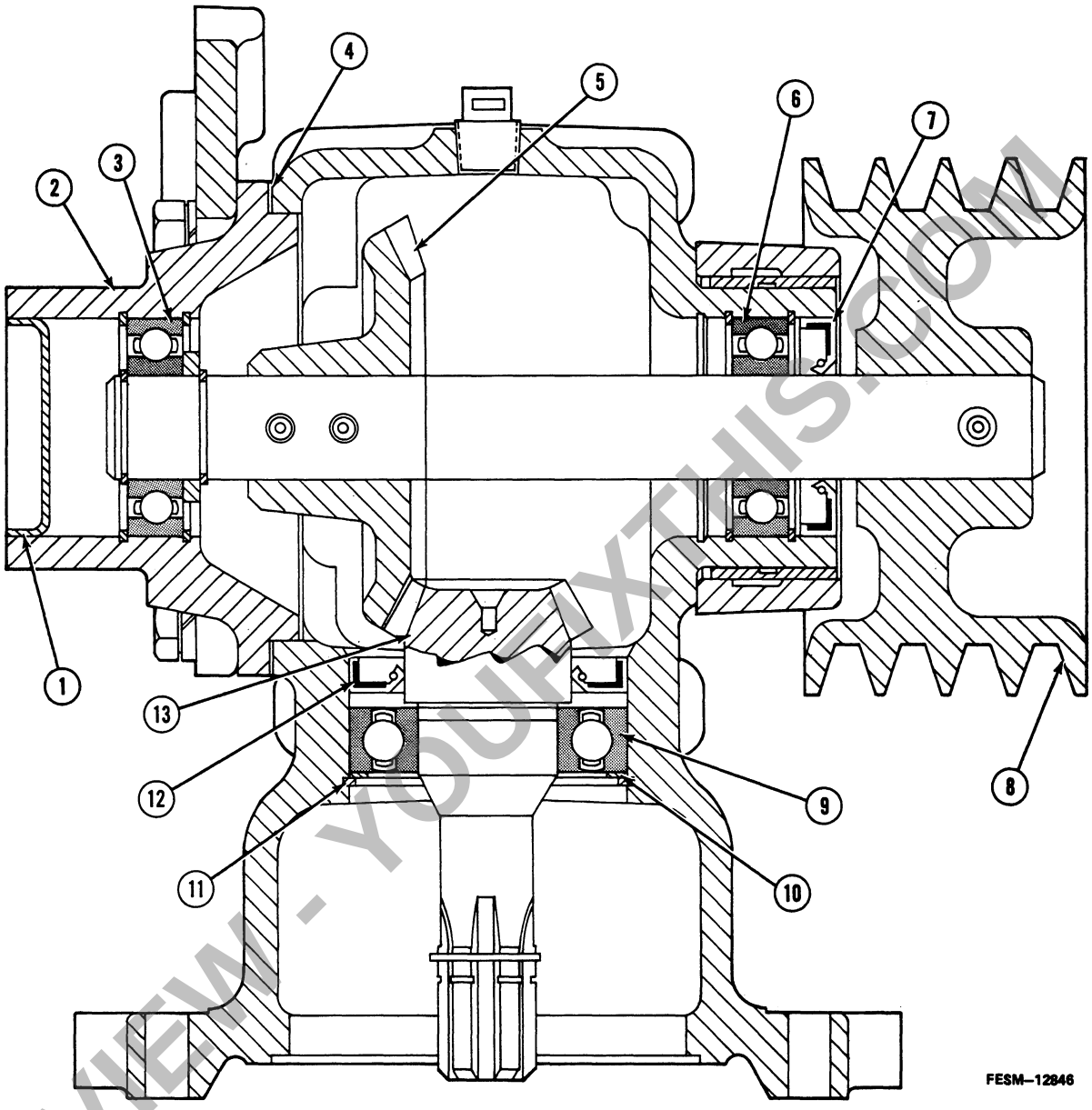
BOLT TYPE IDENTIFICATION CHART

IH TYPE	S.A.E. GRADE	DESCRIPTION	BOLT HEAD MARKING *
1	Equivalent 1 or 2	WILL HAVE A IH STANDARD MONOGRAM IN THE CENTER OF THE HEAD Low or Medium Carbon Steel Not Heat Treated	
5	5	WILL HAVE A IH AND 3 RADIAL LINES Quenched and Tempered Medium Carbon Steel	
8	8	WILL HAVE A IH AND 6 RADIAL LINES Quenched and Tempered Special Carbon or Alloy Steel	

*The center marking identifies the bolt manufacturer. The IH monogram is currently used. Some bolts may still have an IH or a raised dot which previously identified IH bolts.

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Reassembly



1. Cup plug
2. Housing cap
3. Front bearing
4. Shims
5. Bevel gear
6. Rear bearing
7. Rear seal
8. Pulley
9. Pinion bearing
10. Shim
11. Snap ring
12. Seal
13. Pinion gear

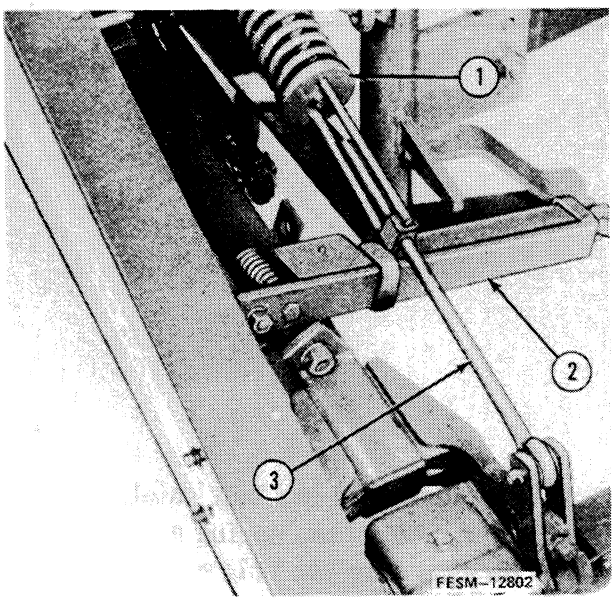
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ANGLE DRIVE

Overhaul

Removal



1. Lower the mower to the ground by lowering the three point hitch.

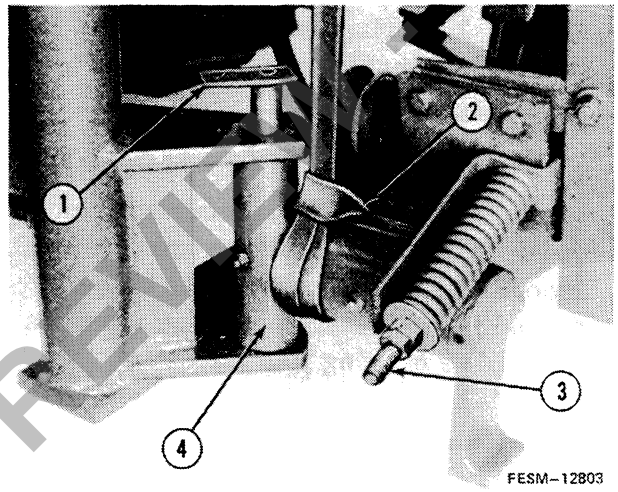
2. Disconnect the universal joint from the tractor and the mower.

3. Disconnect the hydraulic quick coupler from the tractor.

4. Disconnect the eye bolt from the gag post. Disconnect the chain from the spring and remove the eye bolt and chain as an assembly.

5. Remove the release bar.

1. Spring
2. Release bar
3. Adjusting eye bolt

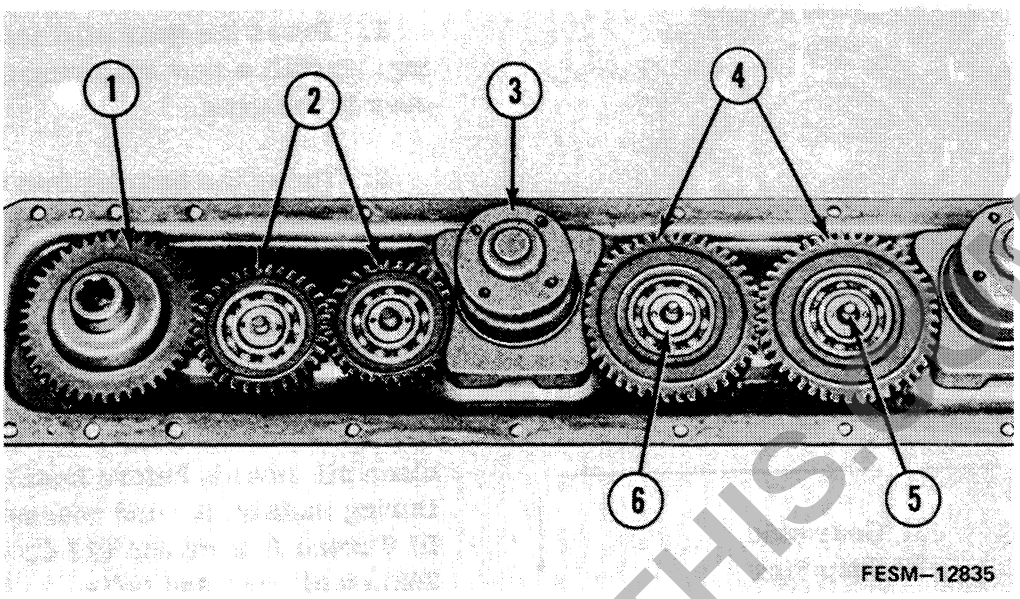


6. Release the belt tension by backing off the double nuts on the adjusting eye bolt.

7. Using a suitable hoist, support the weight of the mower. Remove the coupling bar shaft from the coupling bar pivot and remove the coupling bar and mower from the main frame.

1. Coupling bar shaft
2. Lifting sling
3. Belt adjusting eye bolt
4. Coupling bar pivot

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1. Drive gear
2. Small intermediate gears
3. Disc gear assembly
4. Large intermediate gears
5. Mounting bolt
6. Gear stud

Removal

1. To remove the drive gear, remove the bolt on the bottom of the gear case and lift the gear off the case.

NOTE: The drive gear bearing is a slip-fit.

2. To remove an intermediate gear, use a 3/16 inch spanner wrench to hold the gear stud while removing the mounting bolt.

3. The bearings are held in place by a steel wire snap ring. To remove the bearing, press the bearing out of the gear. The snap ring will be sheared in the process and will have to be replaced during reassembly.

NOTE: Be sure to press on the lettered side of the bearing when removing.

4. To remove the gear stud, press the stud out of the bearing.

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