Please Cut where indicated and place the label on the spine of the binder.

5088, 6088,
7088 COMBINE

Service Manual

84242798

Replaces 87719025

5088, 6088,
7088 COMBINE

Service Manual

84242798

Replaces 87719025

5088, 6088,
7088 COMBINE

Service Manual

84242798

Replaces 87719025

5088, 6088,
7088 COMBINE

Service Manual

84242798

Replaces 87719025

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84242801 (Replaces 87719026)

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NOTE: *Engine repair information is not contained within this Service Manual. Refer to the Service Manuals for the 8.3 9L 6-Cylinder 24 Valve CNH Engine (5088 and 6088 Combines) and 9.0L Engine (7088 Combine).*

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ELECTRICAL SCHEMATIC POSTER - PIN Y8G000101 AND AFTER 87474621

HYDRAULIC SCHEMATIC POSTER - PRIOR TO PIN Y8G000101 87719034

HYDRAULIC SCHEMATIC POSTER - PIN Y8G000101 AND AFTER 87474623

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- TORQUE SPECIFICATIONS - METRIC HARDWARE 1001-3
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- Nozzle Drive Motor 2004-3
  - Removal 2004-3
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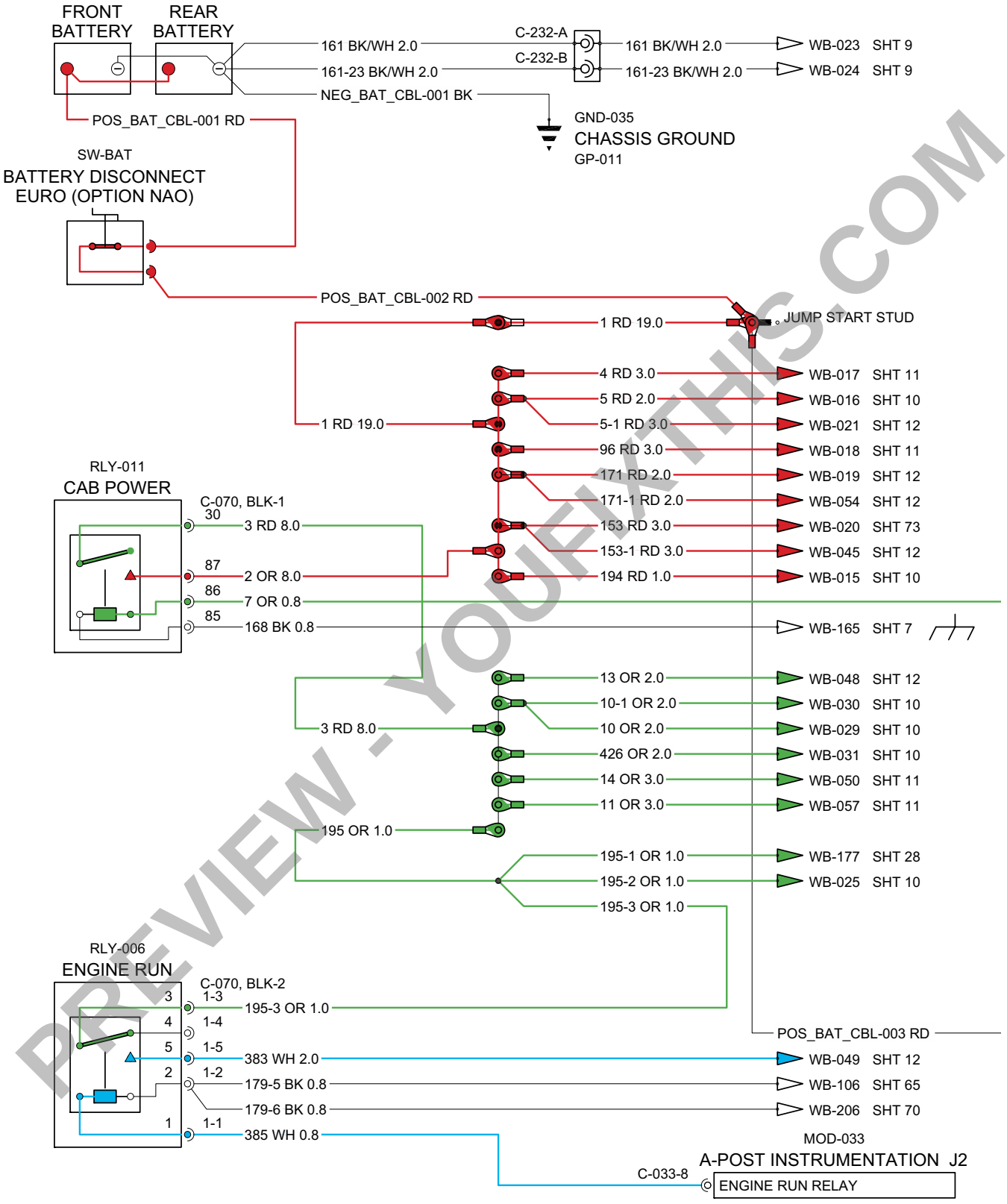
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POWER DISTRIBUTION



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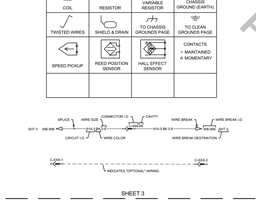
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ACTUATORS

HAND	FOOT	TEMPERATURE	LIQUID LEVEL FLOAT
LEVER	PRESSURE		

SCHEMATIC SYMBOLS

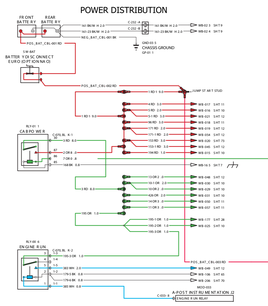
DIODE	FUSE	LAMP	MOTOR
COIL	RESISTOR	VARIABLE RESISTOR	CHASSIS GROUND (EARTH)
TWISTED WIRES	SHIELD & DRAIN	TO CHASSIS GROUNDS PAGE	TO CLEAN GROUNDS PAGE
SPEED PICKUP	REED POSITION SENSOR	HALL EFFECT SENSOR	CONTACTS = MAINTAINED & MOMENTARY



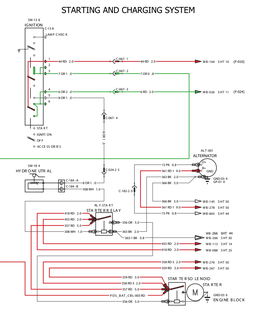
COMPONENT	ABBREVIATION
ALTERNATOR	ALT-001
AUDIBLE DEVICE	AUD-001
BATTERY	BAT-001
CAPACITOR	CAP-001
CIRCUIT BREAKER	CB-001
CONNECTOR	C-001
DIODE	D-001
FUSE	F-001
GROUND	GND-001
LAMP	LMP-001
LED	LED-001
MISCELLANEOUS	MIS-001
MODULE	MOD-001
MOTOR	M-001
RELAY	RLY-001
RESISTOR	RES-001
SENSOR / SENDER	SEN-001
SOLENOID	SOL-001
SPLICE	SPL-001
SPLICE BLOCKS	BUS-001
SWITCH	SW-001
WIRE BREAK	WB-001

COLOR	ABBREVIATION
BLACK	BK
BLUE	BL
BROWN	BN
LIGHT BROWN (TAN)	LN
GREEN	GN
LIGHT GREEN	LG
ORANGE	OR
PINK	PK
PURPLE	PU
RED	RD
SLATE (GREY)	SL
TURQUOISE	TQ
WHITE	WH
YELLOW	YE
-	-
-	-
-	-
-	-
-	-
-	-

POWER DISTRIBUTION



STARTING AND CHARGING SYSTEM



ELECTRICAL SCHEMATIC
5088, 6088, AND 7088 COMBINE
P.I.N. Y8G000101 AND AFTER
RAC 87474621

LEGEND

INDICATES CONSTANT POWER

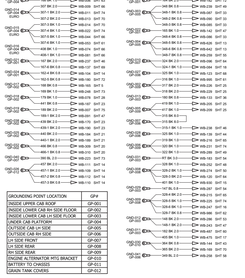
INDICATES POWER WHEN KEY SWITCH IS ON

INDICATES POWER WHEN ENGINE IS RUNNING

87474621SIS1

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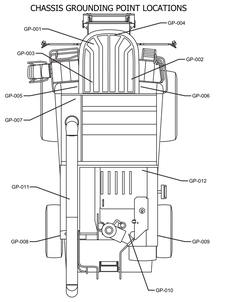
CHASSIS GROUNDS



GROUNDING POINT LOCATION	GP#
SNDER UPPER CAB ROOF	GP-001
SNDER LOWER CAB RH SIDE FLOOR	GP-002
SNDER LOWER CAB LH SIDE FLOOR	GP-003
UNDER CAB PLATFORM	GP-004
OUTSIDE CAB LH SIDE	GP-005
OUTSIDE CAB RH SIDE	GP-006
LH SIDE FRONT	GP-007
LH SIDE REAR	GP-008
RH SIDE REAR	GP-009
ENGINE ALTERNATOR MTG BRACKET	GP-010
GRAIN TANK COVERS	GP-011
GRAIN TANK COVERS	GP-012

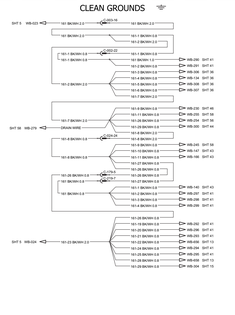
SHEET 2

CHASSIS GROUNDING POINT LOCATIONS



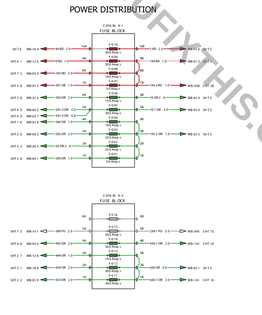
SHEET 3

CLEAN GROUNDS



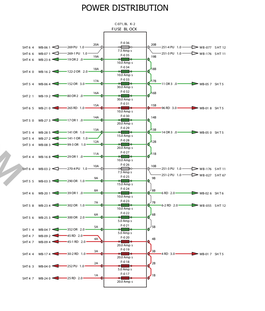
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POWER DISTRIBUTION



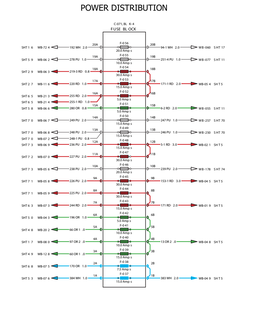
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POWER DISTRIBUTION



SHEET 6

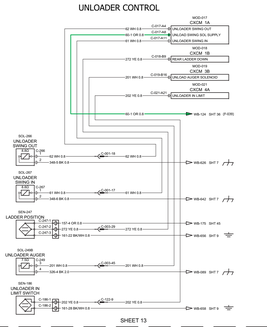
POWER DISTRIBUTION



87474621SIS1

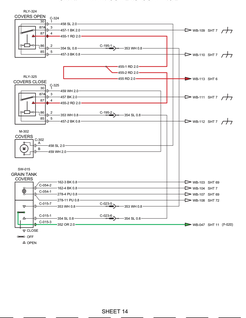
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UNLOADER CONTROL



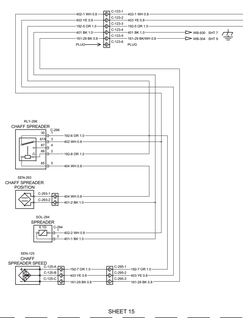
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GRAIN TANK COVERS CONTROL



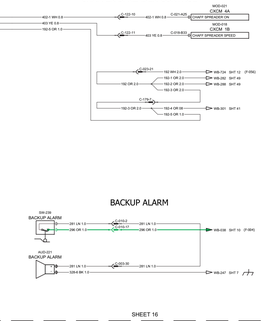
SHEET 9

CHAFFER SPREADER CONTROL



SHEET 10

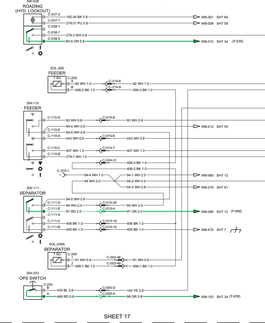
CHAFFER SPREADER CONTROL



BACKUP ALARM

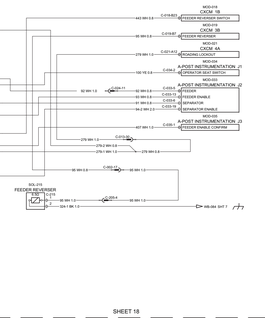
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FEEDER AND SEPARATOR CONTROL



SHEET 12

FEEDER AND SEPARATOR CONTROL



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SHEET 14

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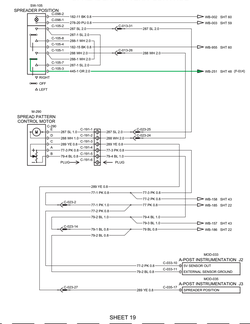
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SHEET 17

SHEET 18

SHEET 19

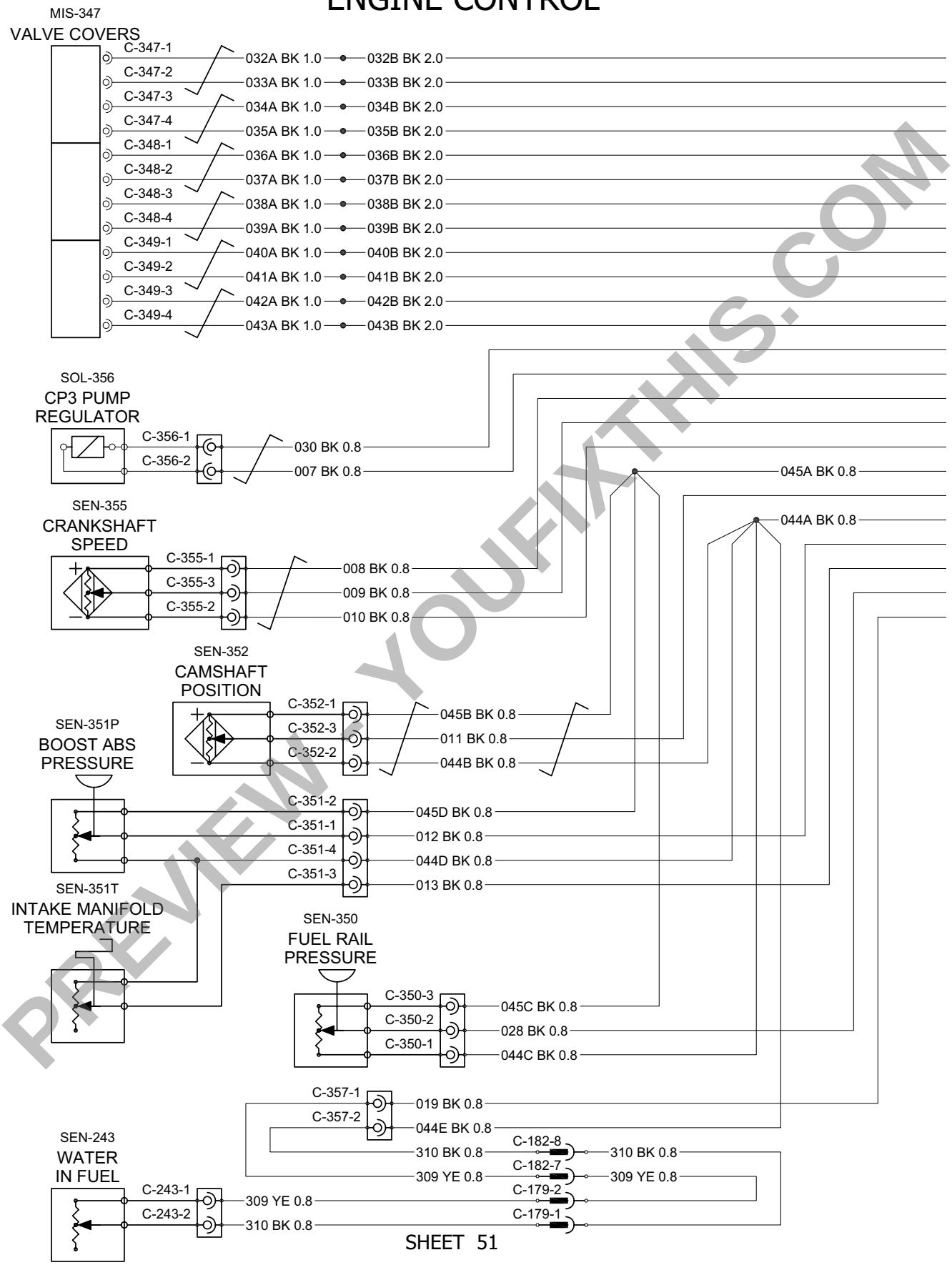
SPREADER PATTERN CONTROL



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ENGINE CONTROL



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TORQUE SPECIFICATIONS - METRIC HARDWARE 3

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS 4

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS 5

TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs



Size	Pound-Inches	Newton metres
1/4 inch	108 to 132	12 to 15
5/16 inch	204 to 252	23 to 28
3/8 inch	420 to 504	48 to 57
Size	Pound-Feet	Newton metres
7/16 inch	54 to 64	73 to 87
1/2 inch	80 to 96	109 to 130
9/16 inch	110 to 132	149 to 179
5/8 inch	150 to 180	203 to 244
3/4 inch	270 to 324	366 to 439
7/8 inch	400 to 480	542 to 651
1.0 inch	580 to 696	787 to 944
1-1/8 inch	800 to 880	1085 to 1193
1-1/4 inch	1120 to 1240	1519 to 1681
1-3/8 inch	1460 to 1680	1980 to 2278
1-1/2 inch	1940 to 2200	2631 to 2983

Grade 8 Bolts, Nuts, and Studs



Size	Pound-Inches	Newton metres
1/4 inch	144 to 180	16 to 20
5/16 inch	288 to 348	33 to 39
3/8 inch	540 to 648	61 to 73
Size	Pound-Feet	Newton metres
7/16 inch	70 to 84	95 to 114
1/2 inch	110 to 132	149 to 179
9/16 inch	160 to 192	217 to 260
5/8 inch	220 to 264	298 to 358
3/4 inch	380 to 456	515 to 618
7/8 inch	600 to 720	814 to 976
1.0 inch	900 to 1080	1220 to 1465
1-1/8 inch	1280 to 1440	1736 to 1953
1-1/4 inch	1820 to 2000	2468 to 2712
1-3/8 inch	2380 to 2720	3227 to 3688
1-1/2 inch	3160 to 3560	4285 to 4827

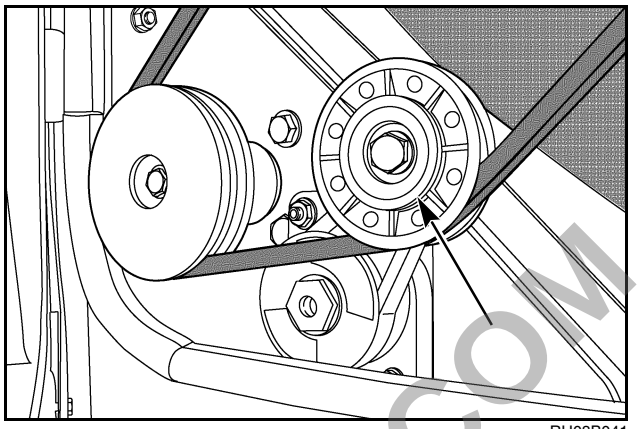
NOTE: *Use thick nuts with Grade 8 bolts.*

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STEP 4

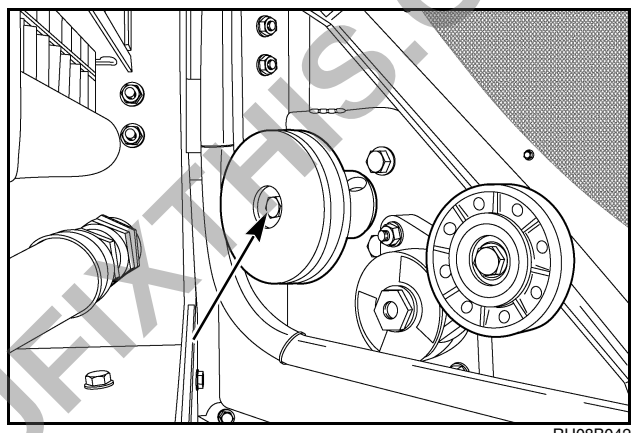
Pry back the belt tensioner and remove the drive belt.



RH08B041

STEP 5

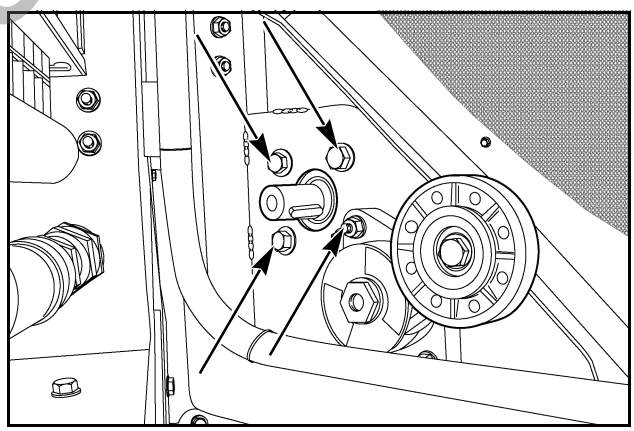
On the motor drive pulley remove the center bolt. Remove the pulley.



RH08B042

STEP 6

Support the nozzle motor and remove the four motor mounting bolts. Remove the nozzle motor from the machine.



RH08B043

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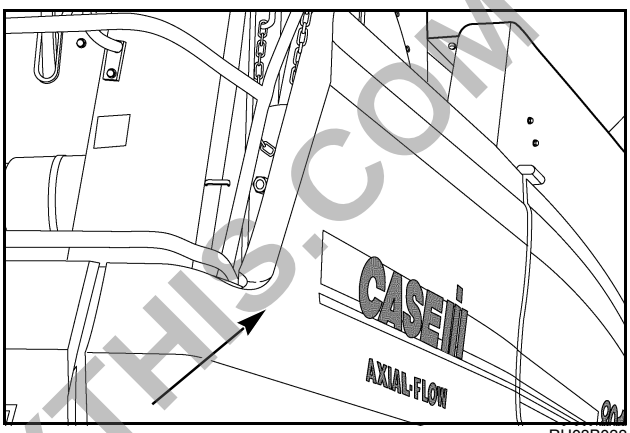
STATIONARY AIR SCREEN (SAS)

Nozzle Drive Motor

Removal

STEP 1

Park the Combine on a flat level surface. Open the right rear body panel.

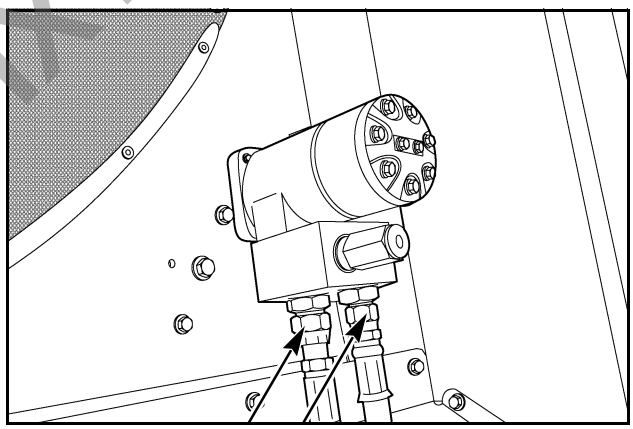


RH08B038

STEP 2

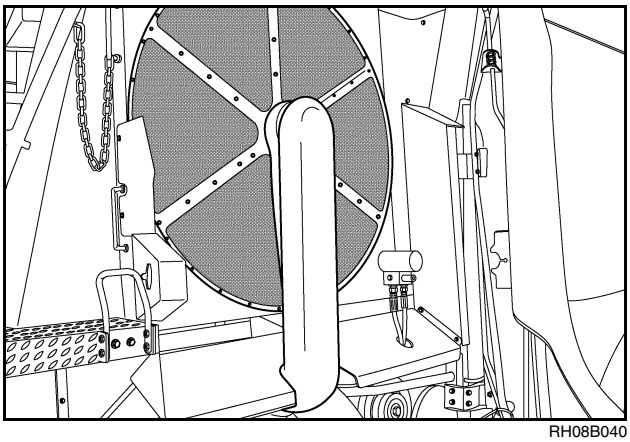
Mark the hoses for reference when reassembling. Remove the hoses from the fittings.

NOTE: *Plug and cap all disconnected hoses and fittings.*


RH08B039

STEP 3

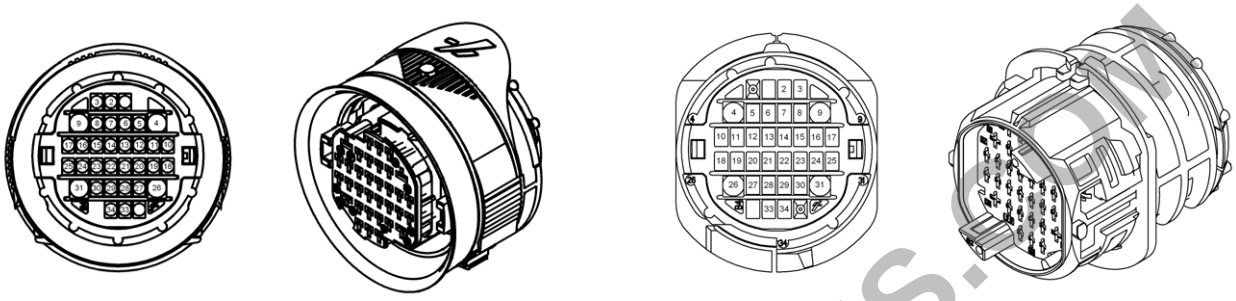
Open the stationary air screen (SAS) door for access to the mounting bolts.


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ELECTRICAL CONNECTORS PINOUT INFORMATION



84142902 AND 2903

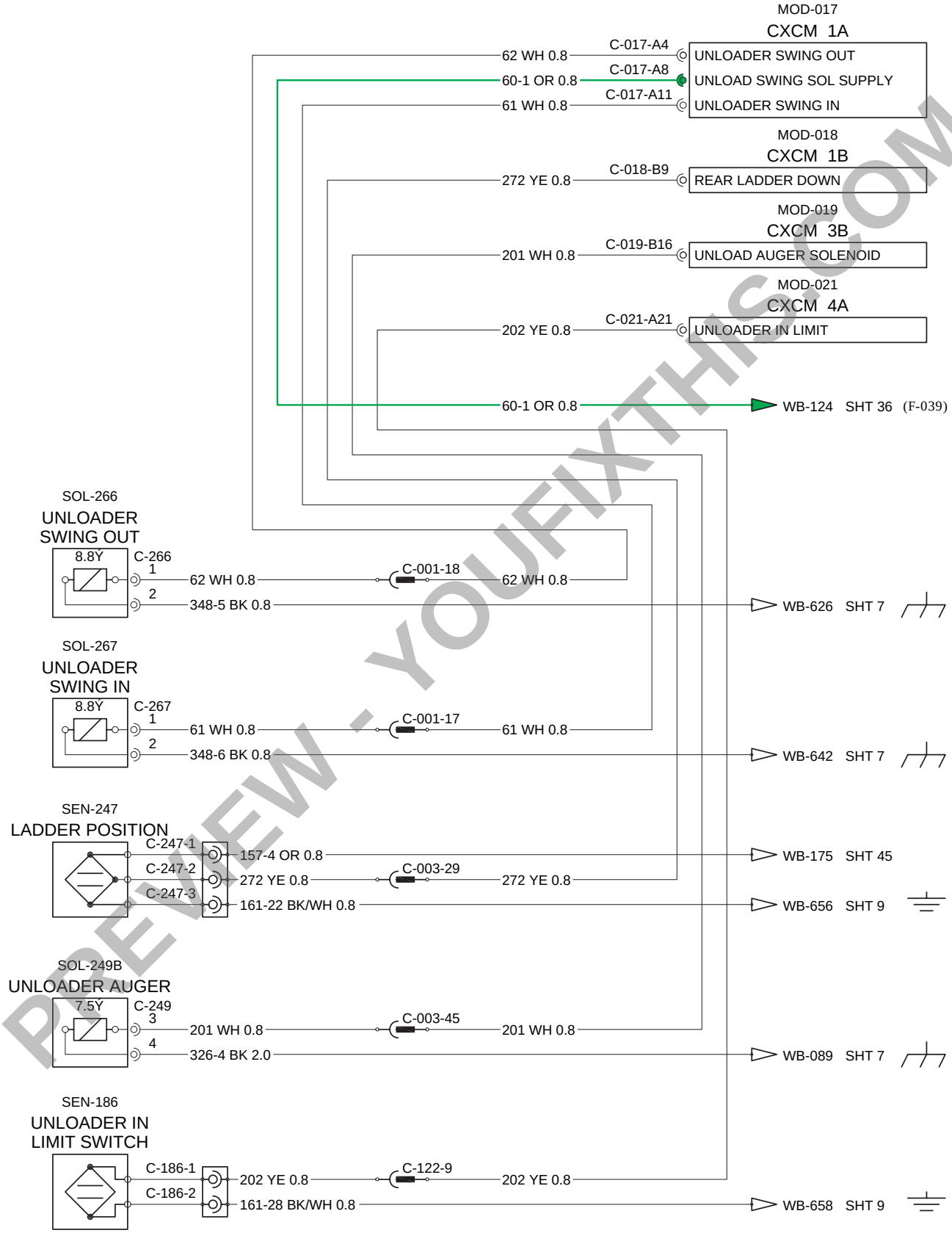
CONNECTOR C001 - LOCATED LEFT SIDE CAB WALL BULKHEAD

CONNECTOR C001		
MAIN HYDRAULIC VALVE HARNESS		
CAV-ITY	**CIRCUIT ID**	**DESCRIPTION**
1	116 WH	HEADER RAISE SOLENOID
2	118 SL	HEADER RAISE SOLENOID
3	119 BL	HEADER HEIGHT CURRENT SENSE
4	OPEN	OPEN
5	137 WH	REEL DRIVE SOLENOID
6	138 BL	REEL DRIVE CURRENT SENSE
7	58 WH	REEL RAISE SOLENOID
8	59 WH	REEL LOWER SOLENOID
9	OPEN	OPEN
10	57 WH	REEL AFT SOLENOID
11	56 WH	REEL FORE SOLENOID
12	98 WH	ACCUMULATOR SOLENOID
13	129 SL	TILT LEFT CCW SOLENOID
14	127 WH	TILT RIGHT CW SOLENOID
15	130 BL	HEADER TILT CURRENT SENSE
16	139 WH	SIGNAL VALVE SOLENOID
17	61 WH	UNLOADER SWING IN
18	62 WH	UNLOADER SWING OUT
19	OPEN	OPEN
20	99-8 OR	B+ SIGNAL VALVE
21	382 WH	LEFT STEERING COIL V+ FROM ENABLE RELAY
22	333 WH	AUTOGUIDANCE STEER LEFT CURRENT SENSE-
23	381 WH	RIGHT STEERING COIL V+ FROM ENABLE RELAY
24	331 WH	RIGHT STEERING COIL
25	376-1 WH	STEERING OVERRIDE FLOW SENSOR +5 VOLTS
26	OPEN	OPEN
27	377-1 PK	STEERING OVERRIDE FLOW SENSOR SIGNAL
28	378-1 BK	STEERING OVERRIDE FLOW SENSOR GROUND
29	380-4 WH	STEERING ENABLE SOLENOID
30	OPEN	OPEN
31	OPEN	OPEN
32	OPEN	OPEN
33	OPEN	OPEN
34	OPEN	OPEN

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UNLOADER CONTROL



SHEET 13

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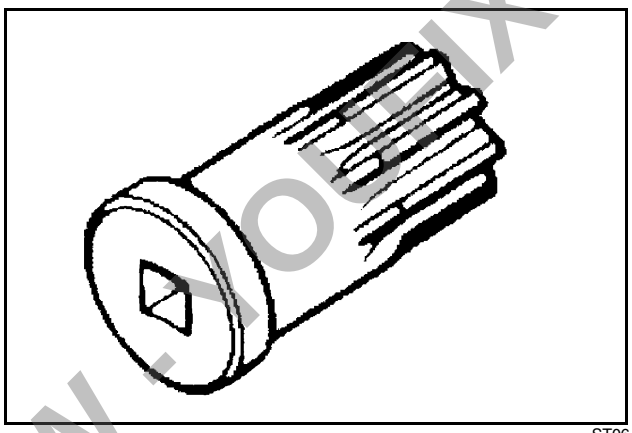
SPECIFICATIONS

Cooling Syatem Capacity .....37.1 Liters (39.2 U.S. Quarts)

SPECIAL TORQUES

Engine mounts to frame bolts ..... 137 to 163 Nm (100 to 120 lb. ft.)
Radiator fan retaining bolts.....76.5 - 103.4 Nm (54.1 - 73.1 lb. ft.)
PTO drive plate to engine flywheel bolts ..... 47 Nm (35 lb. ft.)

SPECIAL TOOLS

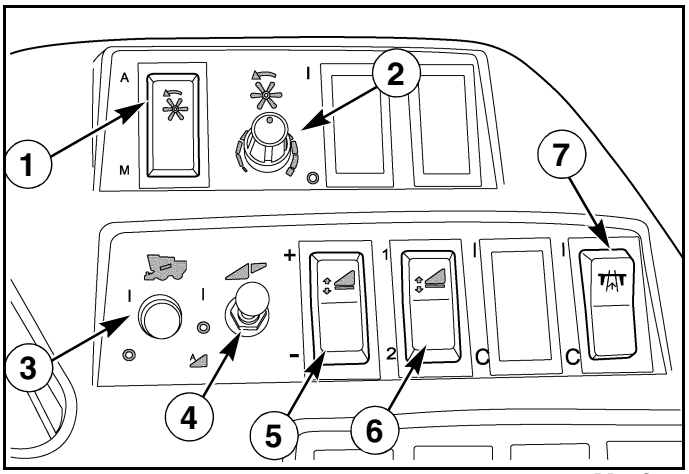


ST06

CAS-1690 Engine Turn Over Tool

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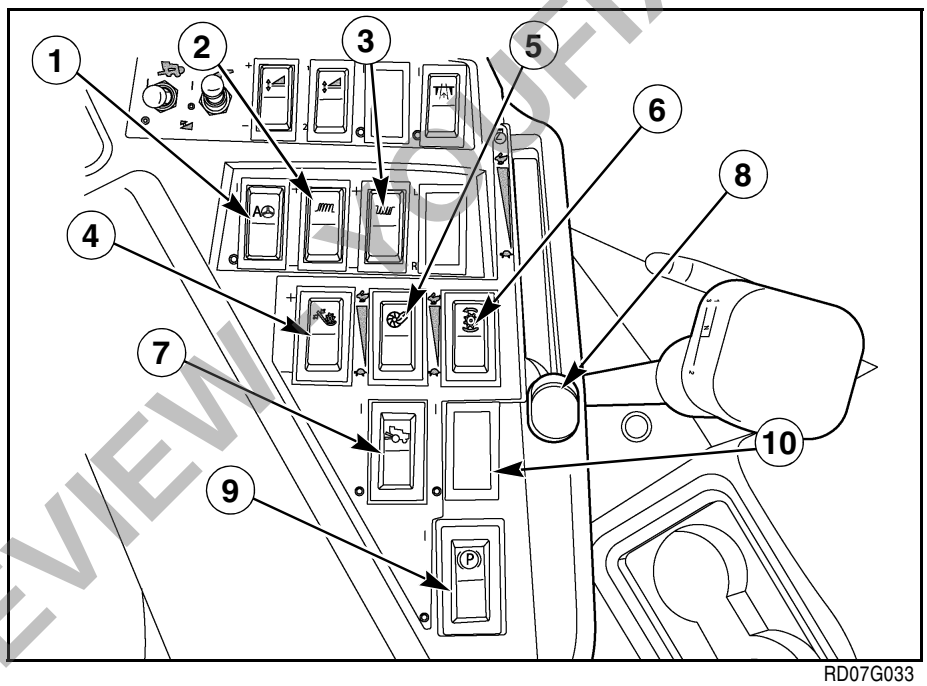
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RD07G026

TOP RIGHT HAND CONSOLE

1. REEL SPEED SELECTOR
2. REEL SPEED CONTROL
3. SEPARATOR DRIVE SWITCH
4. FEEDER CLUTCH SWITCH
5. AUTO HEADER HEIGHT ADJUSTMENT CONTROL
6. AUTO HEADER HEIGHT SET CONTROL
7. FIELD/ROAD MODE SWITCH



RD07G033

LOWER RIGHT HAND CONSOLE

1. AUTO GUIDANCE MASTER SWITCH
2. UPPER SIEVE POSITION CONTROL SWITCH
3. LOWER SIEVE POSITION CONTROL SWITCH
4. CONCAVE POSITION CONTROL SWITCH
5. CLEANING FAN SPEED CONTROL SWITCH
6. ROTOR SPEED CONTROL SWITCH
7. VARIABLE PROPULSION MOTOR SWITCH (IF EQUIPPED)
8. THROTTLE CONTROL LEVER
9. PARKING BRAKE SWITCH
10. POWER GUIDE AXLE SWITCH (IF EQUIPPED)

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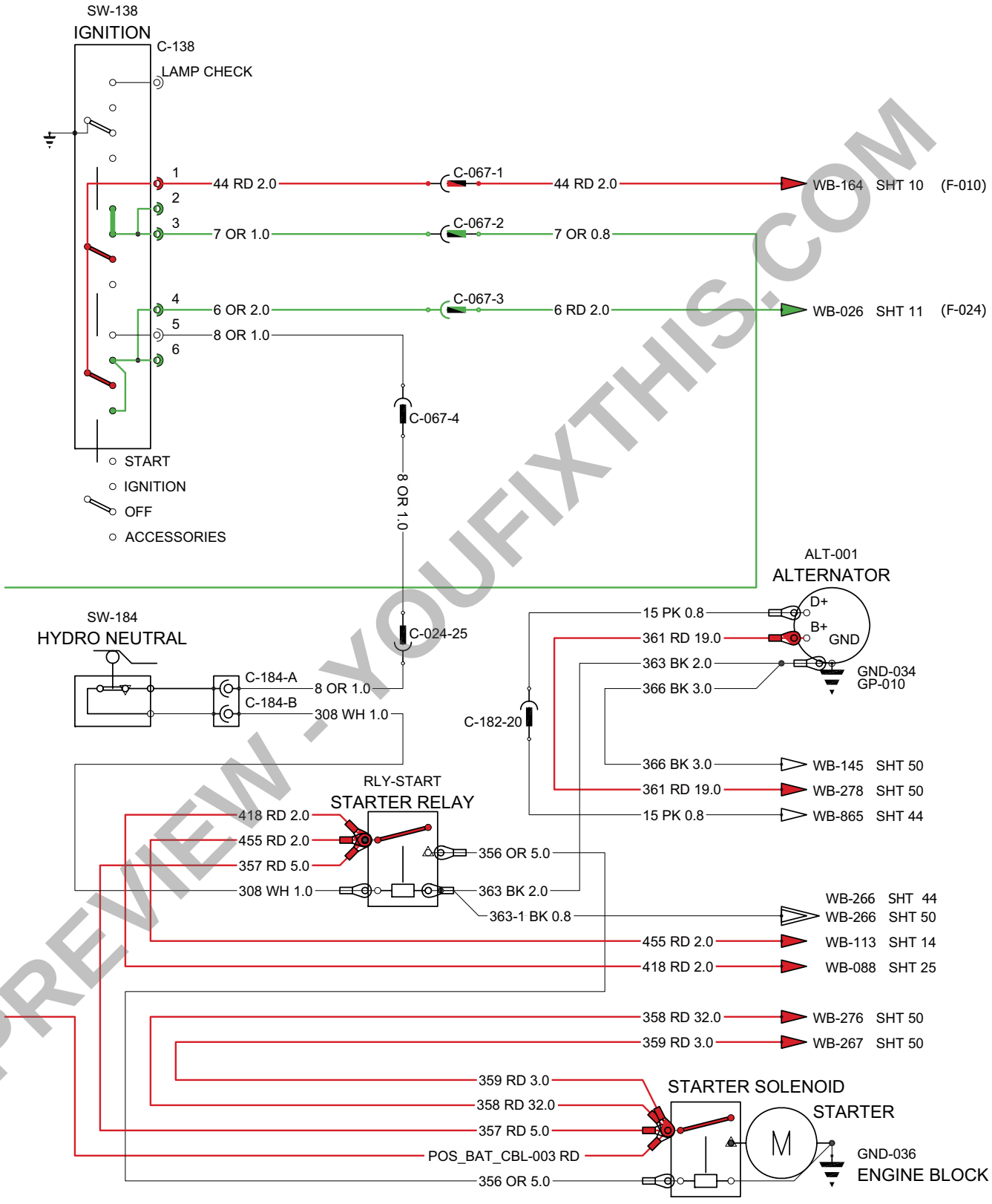
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STARTING AND CHARGING SYSTEM

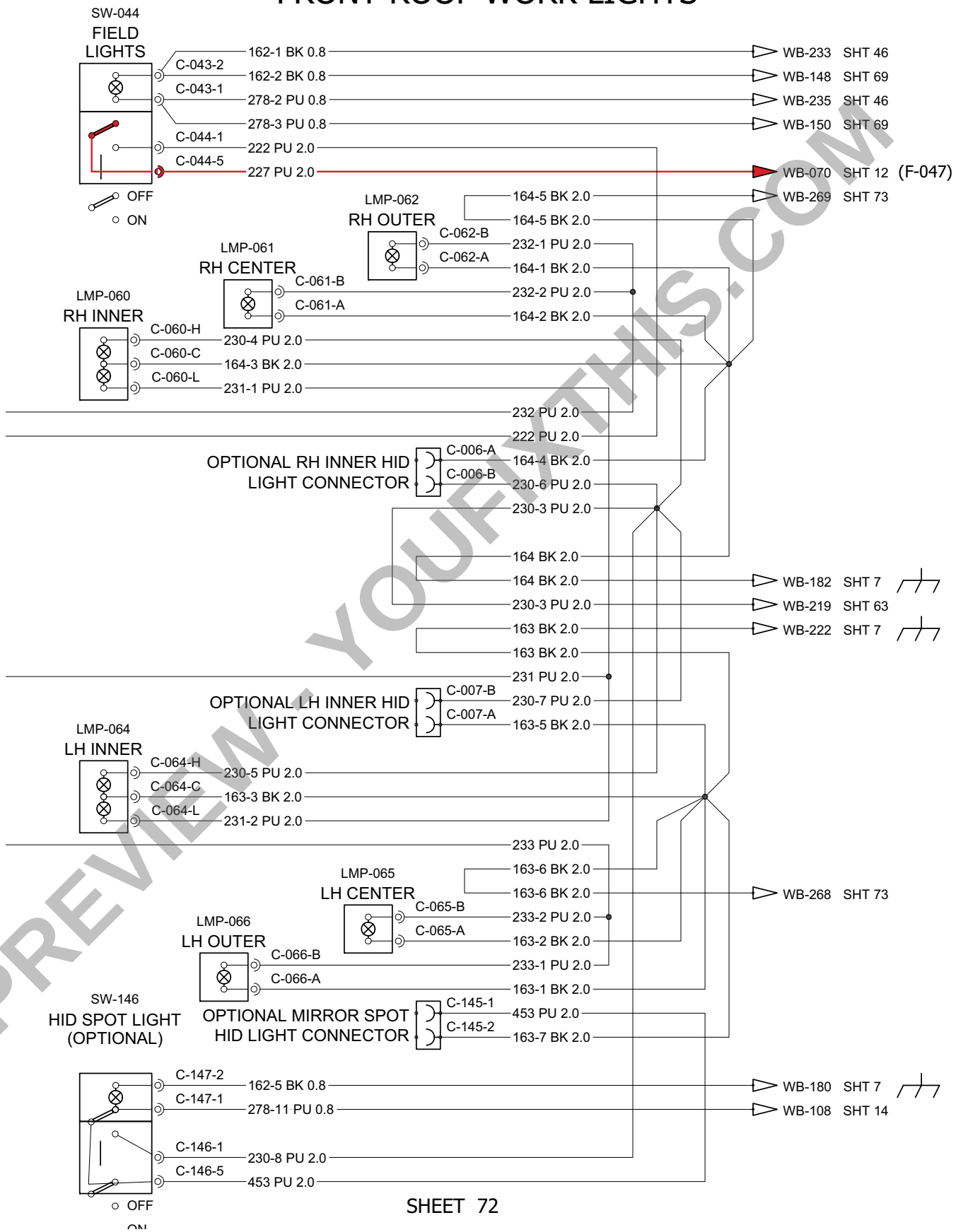


SHEET 6

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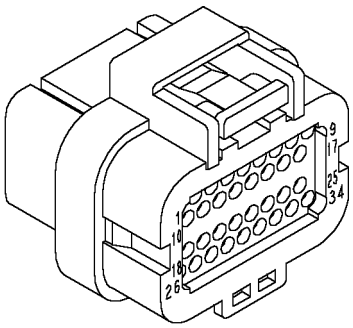
FRONT ROOF WORK LIGHTS



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87410947

CONNECTOR C018 - LOCATED AT CXCM CONTROLLER UNDER INSTRUCTIONAL SEAT

CONNECTOR C018 (1B)		
CXCM		
CAVITY	**CIRCUIT ID**	**DESCRIPTION**
1	OPEN	OPEN
2	124 YE	FEEDER POSITION ANGLE SENSOR SIGNAL
3	134 YE	HEADER LIFT PRESSURE SENSOR SIGNAL
4	131 YE	RIGHT HEIGHT/TILT POTENTIOMETER SENSOR
5	125 YE	CENTERING RIGHT CENTER HEIGHT SENSOR SIGNAL
6	126 YE	CENTERING RIGHT CENTER HEIGHT SENSOR SIGNAL
7	OPEN	OPEN
8	132 YE	LEFT HEIGHT/TILT POTENTIOMETER SENSOR
9	272 YE	REAR LADDER DOWN SENSOR
10	OPEN	OPEN
11	OPEN	OPEN
12	OPEN	OPEN
13	OPEN	OPEN
14	273 YE	BYPASS FULL SENSOR
15	OPEN	OPEN
16	135-2 PK	SENSOR SUPPLY B+
17	OPEN	OPEN
18	203-1 WH	REMOTE UPPER SIEVE OPEN
19	204-1 SL	REMOTE UPPER SIEVE CLOSE
20	205-1 WH	REMOTE LOWER SIEVE OPEN
21	206-1 SL	REMOTE LOWER SIEVE CLOSE
22	271 LN	AUTO LUBE ON LIGHT
23	443 WH	FEEDER REVERSER SWITCH
24	50 YE	MULTIPLE FUNCTION HANDLE IN 6
25	OPEN	OPEN
26	351 WH	1000 SERIES HEADER DETECT
27	51 YE	MULTIPLE FUNCTION HANDLE IN 5
28	64-2 WH	2 SPEED HYDRO SOLENOID
29	221-7 PU	GRAIN TANK ALMOST FULL SENSOR
30	OPEN	OPEN
31	OPEN	OPEN
32	OPEN	OPEN
33	403 YE	CHAFF SPREADER SPEED SIGNAL
34	OPEN	OPEN

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Disassembly

NOTE: *Refer to illustration on previous page. Wheel flange, bearings and seals not shown.*

1. Put the propulsion lever in the neutral position, engage the parking brake and block the drive wheels. Turn off the engine and remove the key.

2. Lift the rear axle so the wheels are off the ground. Support the axle with jack stands.

3. Remove the rear wheel from the axle.

4. Using suitable equipment, remove the tie rod end from the steering knuckle (10).

5. While supporting the steering knuckle (10) and wheel flange, remove the two 70 MM and the two 90 MM cap screws (4) from the axle extension (1).

6. Remove the lower bushing casting (13) from the steering knuckle (10) by lowering it off the steering knuckle.

7. Lower the steering knuckle (10) out of the rear axle extension (1). Inspect and replace the bushings (8 & 12) if necessary. See Bushing Replacement in this section.

NOTE: *If necessary to remove the wheel bearings, refer to Wheel Bearings at start of this Section.*

NOTE: *It is recommended that the grease seals, bore bushings and disc bushing be replaced when the hub and steering knuckle assembly is disassembled.*

8. Inspect the machined ends of the steering hub and kingpin for roundness wear, scratches and gouges.

9. If the assembly exhibits excessive play, disassemble the wheel spindle from the assembly as described in Wheel Bearing Section and replace the hub and kingpin.

Assembly

10. Apply a generous layer of multi-purpose grease to the machined ends of the kingpin. With suitable lifting equipment, lift the steering knuckle (10) up into the upper bushing casting on the end of the axle extension.

11. With the steering knuckle being held in place, apply LOCTITE® to the four cap screws that will be holding the lower bushing casting (13) in place. Lift the lower bushing casting (13) into place and secure with the two 70 MM and the two 90 MM cap screws (4). Torque to 590-650 Nm (435-480 lb. ft.).

12. Install the tie rod end to the steering knuckle (10).

13. Do Steps 3 through 11 to the other side steering knuckle.

14. Install the wheels and tires. Remove the jack stands. Torque the wheel nuts to 410-492 Nm (302-263 lb. ft.).

15. Check the toe in, adjust if necessary. See Toe-in Adjustment in this section of this manual.

16. Torque the slotted nut to 332-366 Nm (245-270 lb. ft.). Install the cotter pin.

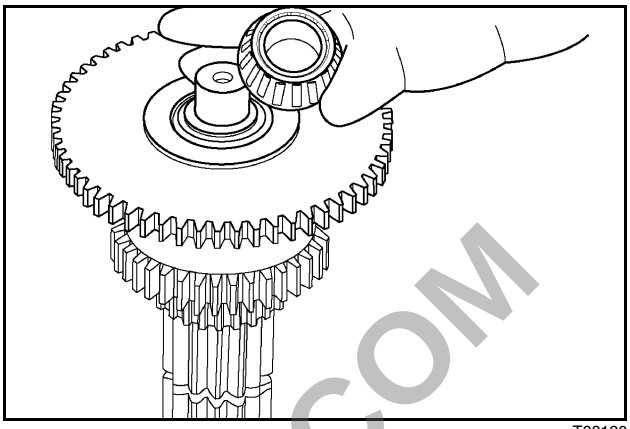
NOTE: *If the holes for the cotter pin do not line up, tighten, do **NOT** back off, the slotted nut to align the cotter pin holes.*

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STEP 75

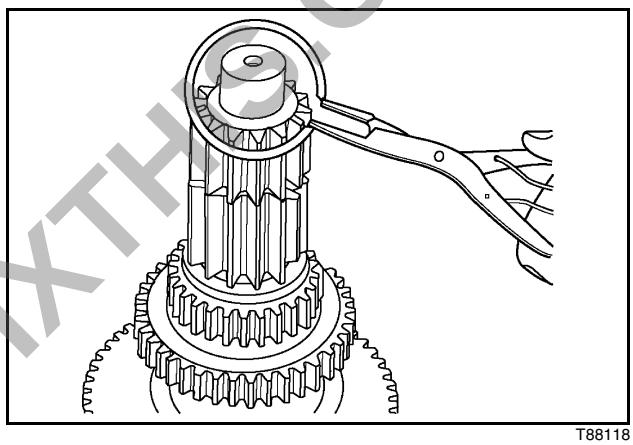
Install the LH bearing cone on the pinion shaft. The wide part of the bearing cone must be seated on the shoulder of the pinion shaft. Let bearing cool for several minutes. Press bearing on inner race to properly seat bearing on the shaft. Use caution to prevent spool gear from damaging bearing cage during handling.



T88120

STEP 76

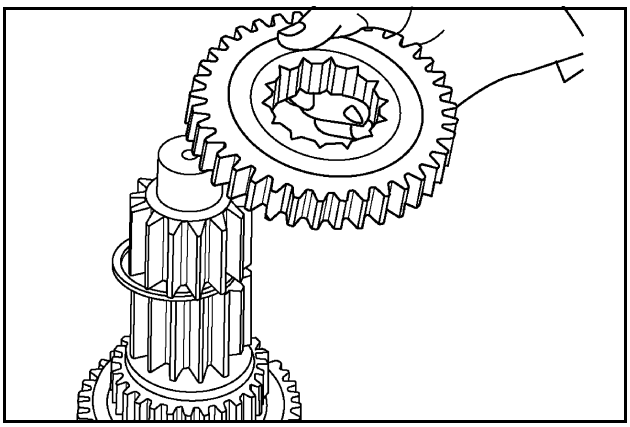
Install the inner retaining ring for the change driven gear in the large groove on the pinion shaft.



T88118

STEP 77

Install the change driven gear on the pinion shaft.



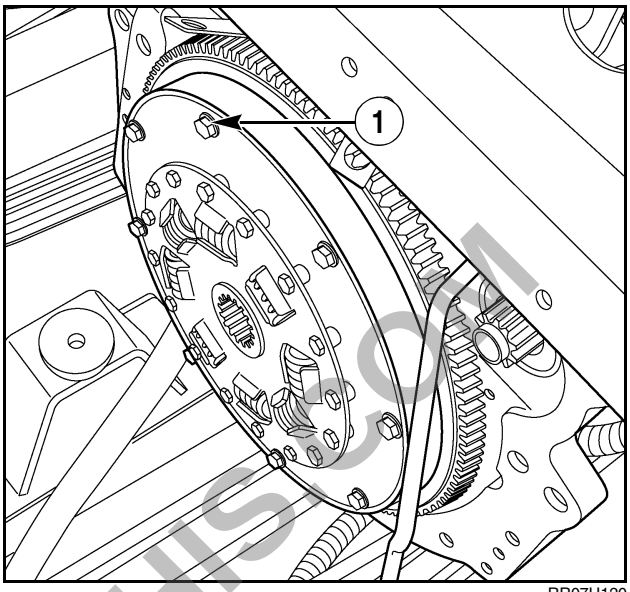
T88117

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STEP 23

Install the torsional damping plate to flywheel. Torque bolts to 47 Nm (35 lb. ft.).

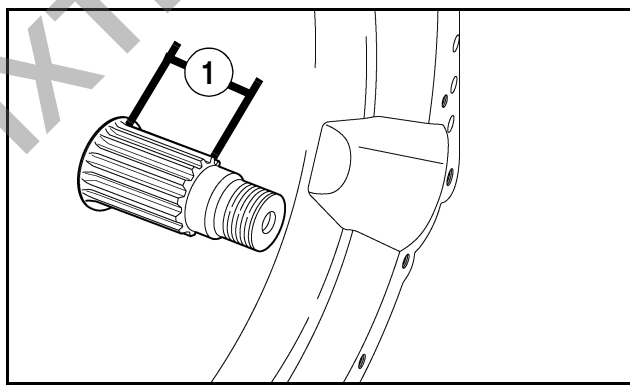


RR07H120

1. TORQUE TO 47 Nm (35 LB. FT.)

STEP 24

Coat splines of PTO shaft (1) of PTO gearbox with 1/2 ounce of NLGI Number 2 Multi Purpose Lithium 251H EP Grease. DO NOT lubricate the unsplined portion of the PTO shaft.



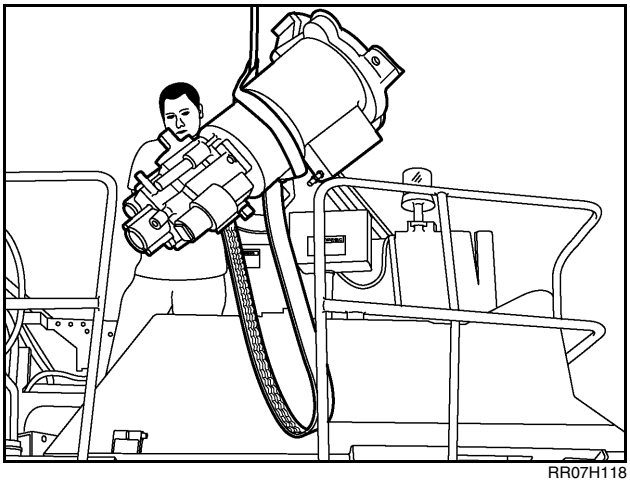
RR07H119

STEP 25

Remove old separator drive pulley **and key** from old gearbox and install on new gearbox. torque to 251 to 291 Nm (185 to 215 lb. ft.).

Using a hoist or a suitable lifting device, lift PTO gearbox assembly over the Combine and down into the desired location.

NOTICE: *Using a hoist and Fork Lift will be helpful for positioning the gearbox.*



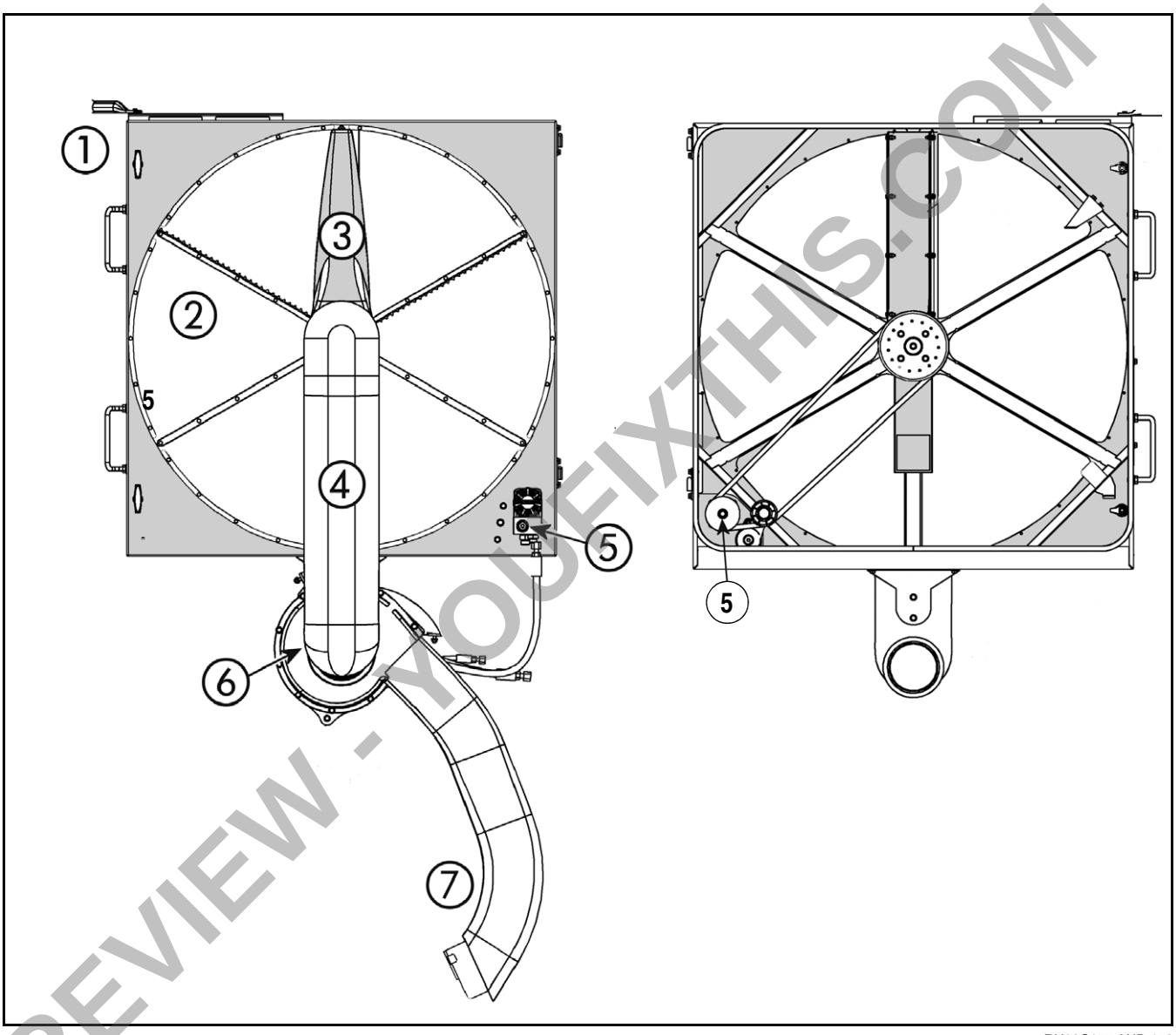
RR07H118

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STATIONARY AIR SCREEN (SAS) SYSTEM

The combine is equipped with a stationary air screen (SAS) system. The stationary air screen (SAS) system is located on the right, rear portion of combine in line with the engine. The unit uses a vacuum nozzle that rotates around the outside of the screen, pulling the debris from the screen.



RH08C157 AND 158

1. STATIONARY AIR SCREEN (SAS) DOOR
2. STATIONARY SCREEN PANELS
3. ROTARY NOZZLE
4. VACUUM TUBE
5. NOZZLE/BLOCKER DRIVE MOTOR
6. VACUUM MOTOR/IMPELLER
7. TRASH DISCHARGE PIPE

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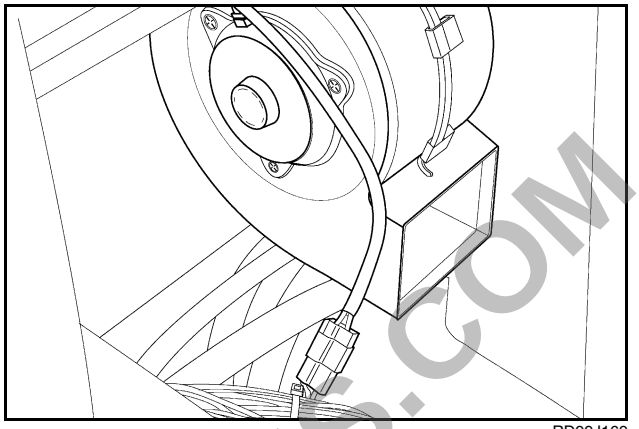
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CAB PRESSURIZER BLOWER

STEP 22

1. Listen for the pressurizer motor to start when the engine is started. The cab pressurizer motor is located under the training seat. It draws air from the cab filter and supplies air directly to the A/C unit under the operator's seat.

2. If the pressurizer motor does not run, check voltage at red feed wire and at connector 86 on B terminal. Check fuse 37 (15 amp). If 12V present (normal), check ground. If all above conditions are met, replace pressurizer motor. See 14 - Cab Pressurizer Blower Motor and Circuit Test.



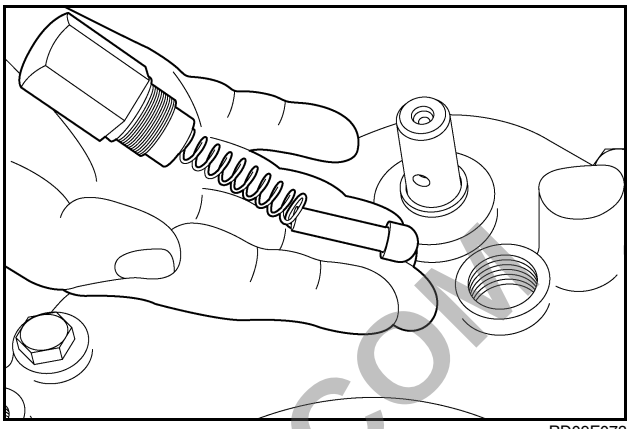
RD99J169

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STEP 18

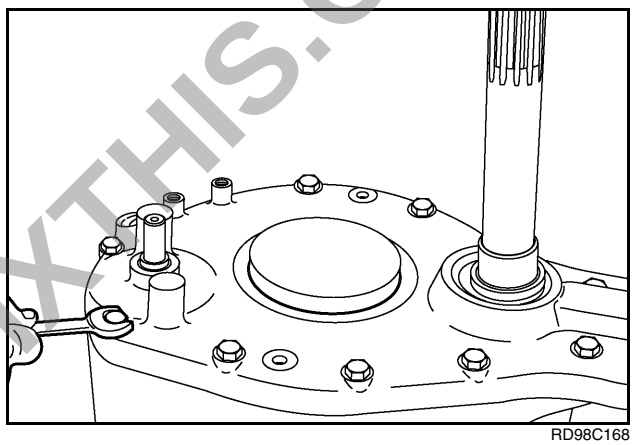
Set the rotor gearbox on a suitable table with the input shaft upward. Remove detent plug assembly, spring and pin from cam detent hole on cover.



RD09E073

STEP 19

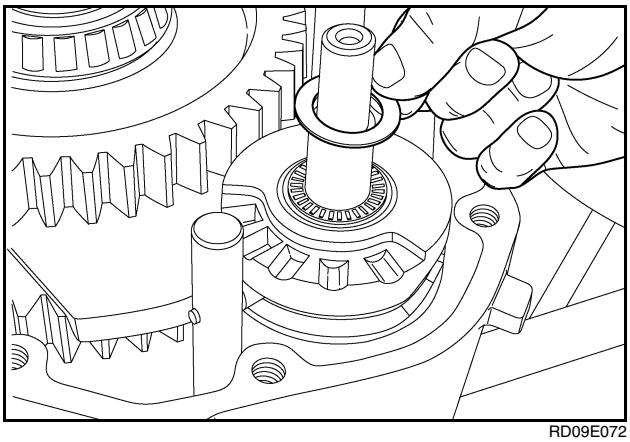
Remove the bolts from the cover of the rotor gearbox and remove cover.



RD98C168

STEP 20

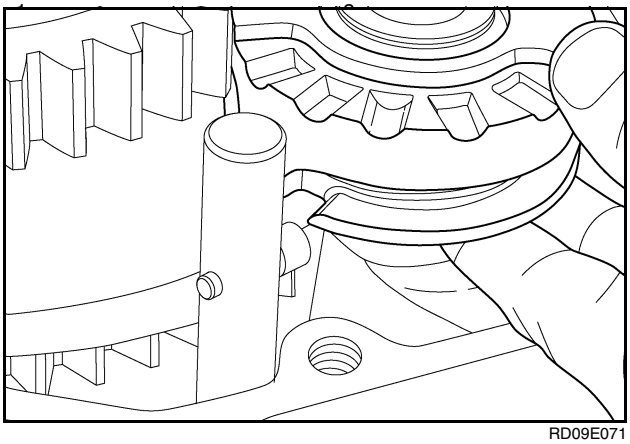
Remove the upper needle bearing then thrust washer on shift cam.



RD09E072

STEP 21

Remove the shift cam from the housing.



RD09E071

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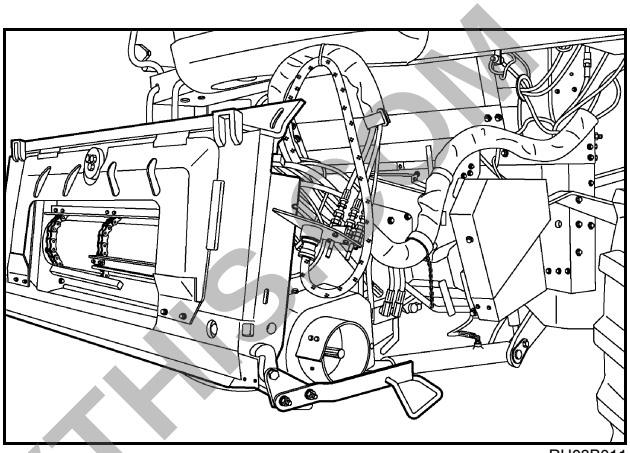
FEEDER HOUSING

Removal

NOTE: *The feeder housing must be removed from the Combine before the rotor can be removed.*

STEP 1

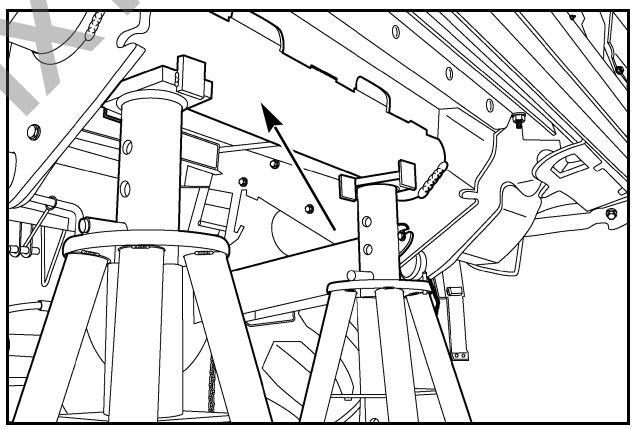
Remove any header from the feeder housing.



RH08B011

STEP 2

With the separator and feeder drive disengaged, place jack stands under the front support bar and lower the feeder housing on to the stands. Turn the engine OFF and remove the key.



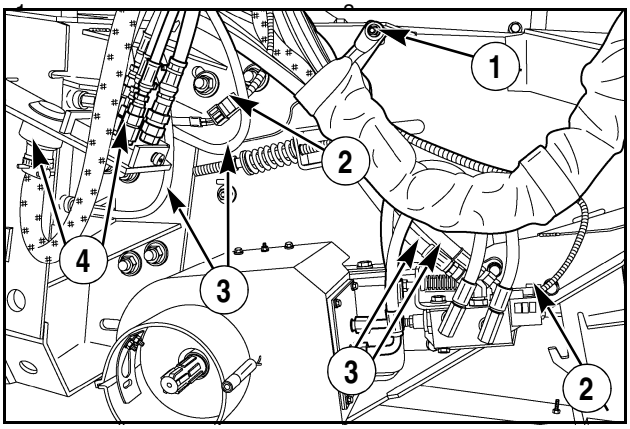
RH08B013

STEP 3

On the left hand side of the feeder housing:

- Remove the nut and bolt (1) for the support strap.
- Disconnect the two electrical connectors (2).
- Disconnect the four hydraulic hoses (3)
- Remove the electrical connector and the hydraulic connector's (4) from their resting station.

NOTE: *Tag and label disconnected hoses, harnesses, fittings and connectors. Plug and cap all disconnected hoses and fittings.*



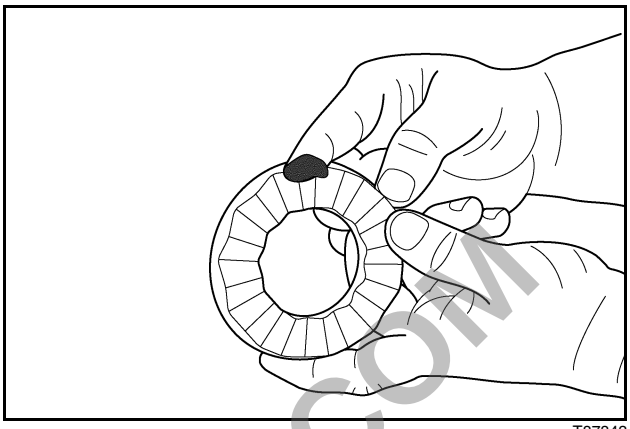
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STEP 50

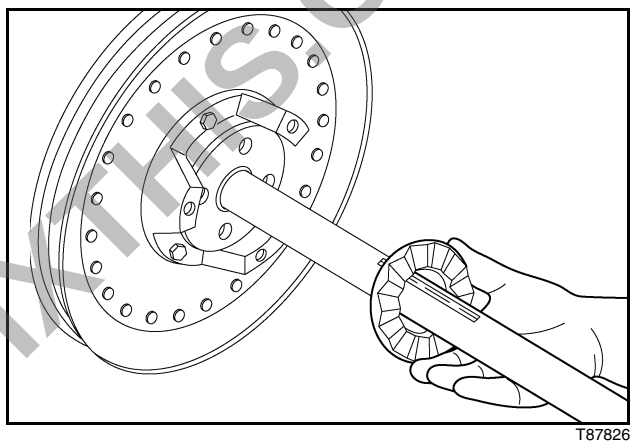
Put a small amount of grease on the teeth of both ratchet plates to prevent rust.



T87843

STEP 51

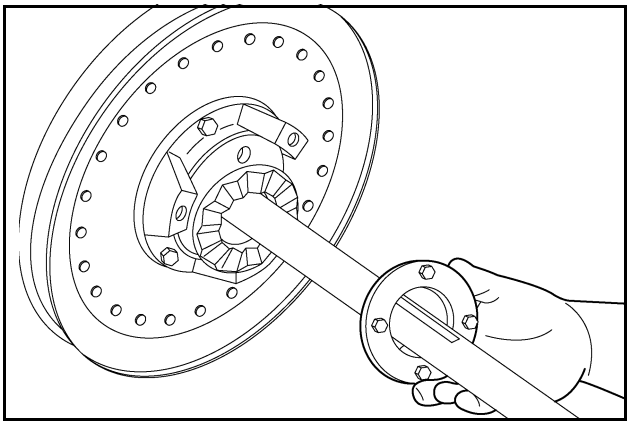
Slide the inner ratchet plate onto the jackshaft.



T87826

STEP 52

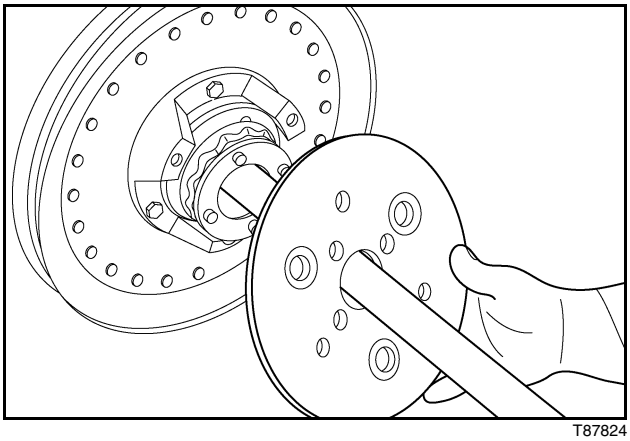
Slide the outer ratchet plate onto the jackshaft.



T87825

STEP 53

Slide the slip clutch retainer plate onto the jackshaft. Assemble the ratchet plates so that the ears on the inner ratchet plate fit into the holes on the flange of the slip clutch hub, and the ears on the outer ratchet plate fit into the holes in the slip clutch retainer plate.



T87824

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