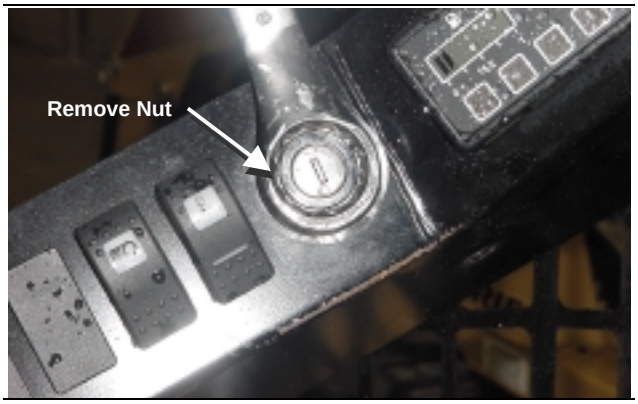


Figure 5-7 5-007

2. Remove the nut that secures the ignition switch to the dash panel.



Figure 5-8 5-008

3. Pull the ignition switch out from the rear of the dash panel.



Figure 5-9 5-009

4. Unplug the ignition switch connector.

Ignition Switch Installation



Figure 5-10 5-010

1. Insert the ignition switch from the rear of the dash panel.

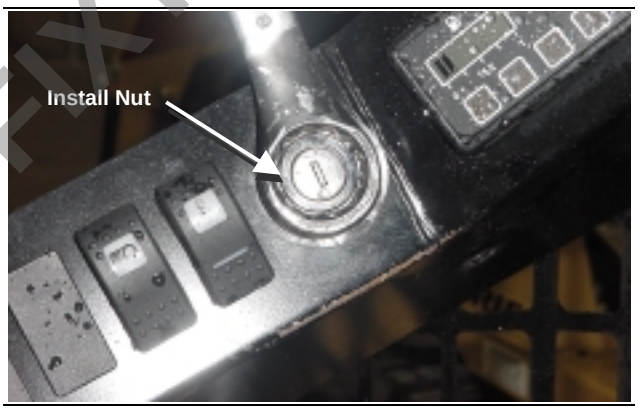


Figure 5-11 5-011

2. Install the nut that secures the ignition switch to the dash panel.



Figure 5-12 5-012

3. Plug in the ignition switch connector.

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2. Technical Specifications

Specifications

Engine

- Model: Cat 3013
- Displacement: 1.5 liter
- Gross horsepower: 31.5 hp (23.5 kW)
- Torque: 64.39 lb-ft (87.3 Nm)
- Idle rpm: 2800 (high idle); 1175 (low idle)
- Hot water temperature sender: 217°F (102.7°C)
- Average water /thermostat temperature: 190°F (87.8°C)

Transmission

- Model: Cat AA10VG18 tandem (Rexroth)

Drive pumps

- Displacement: 1.098 in^3/rev (18.0 cc/rev)
- Relief pressure: 3800 psi (26,200 kPa)
- Flow: 13 gpm (11.4 lpm) @ 2800 rpm (high idle)

Charge pumps (2)

- Displacement: 0.33 in^3/rev (5.4 cc/rev) X 2
- Relief pressure: Serial Number RSA001 through RSA01056, 450 to 500 psi (2620-2758 kPa) at high idle with warm oil, Serial Number RSA01057 and higher 340 to 380 psi at high idle with warm oil.
- Flow:
  a. 3 gpm (11.4 lpm) combined @ 1175 rpm (low idle)
  b. 7.8 gpm (29.5 lpm) combined @ 2800 rpm (high idle)

Drive Motors

- Model: Eaton/Charlynn 4000 light series
- Displacement: 19.8 in^3/rev (324.5 cc/rev)
- Shuttle control: 0.046-in fitting orifices allow 1 gpm per side @ idle with 130°F (54.4°C) oil

Control Handles

- Model: CAT 4TH6

Auxiliary Pump

- Model: Rexroth
- Displacement: 0.87 in^3/rev (114.3 cc/rev)
- Flow: 10 gpm (37.8 lpm) @ 2800 rpm (high idle)
- Relief pressure: 3000 psi (20,684 kPa)
- Cooling/filtering: Auxiliary oil is filtered and cooled at all times. In Auxiliary mode, the oil is filtered after the attachment to protect the machine if the attachment motor fails or contaminants are introduction from the quick couplers.

Loader Valve

- Model: Husko
- Relief pressure: 3000 psi (20,684 kPa)
- Pilot pressure required to move spools: 180-220 psi (1241-1517 kPa)

Cooler

- Burst pressure: 400 psi (2757 kPa)
- Operating pressure: 250 psi (1724 kPa)
- Bypass relief pressure: 100 psi (689 kPa)
- Average oil temperature:
  a. 50°F (10°C) above ambient in general application
  b. 80°F (26.6°C) above ambient in extreme application
- Hot oil sending unit: 225°F (107.2°C)

Critical Torque Specs

- Drive Sprocket Retainer Bolt
  - 85 ft-lb. w/Blue Loctite
- Transmission Mounting Bolts
  - 80 ft-lb. w/Blue Loctite
- Drive Sprocket Drive Teeth Bolts
  - 110 ft-lb. -Dry
- Bogie Wheel Retaining Nut
  - 80 ft-lb. -Dry

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3. System Diagrams

Chapter Overview

This chapter contains diagrams for the following All Surface Loader systems.

- Filtering and cooling system
- Auxiliary circuit system
- Drive loop system

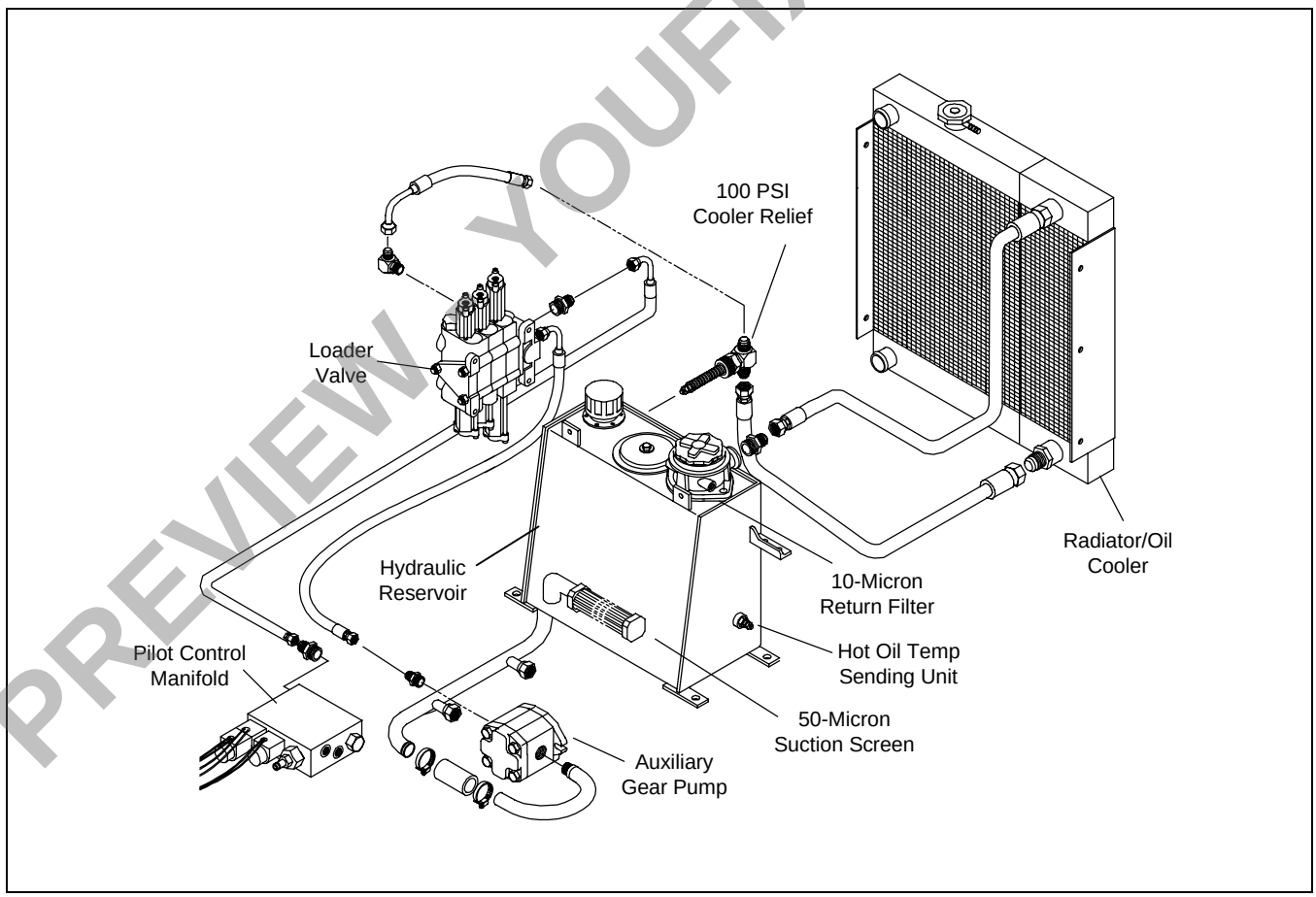
Filtering and Cooling System

The filtering and cooling system (Figure 3-1) contains the following major components.

- Hydraulic reservoir
- Radiator/oil cooler
- Loader valve
- Auxiliary gear pump
- Pilot control manifold

Figure 3-1

Filtering and Cooling System 3-001



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Troubleshooting

This section identifies selected problems and suggests probable causes.

Problem 1

Machine will not crank over.

Probable cause

1. Weak or dead battery.
2. Battery cables loose or corroded.
3. Ignition fuse blown.
4. Main starter fuse blown.
5. Starter relay malfunctioning.
6. Bad ignition switch.
7. Bad starter.
8. Poor wire connections at key, relay, or starter.

Problem 2

Machine cranks but will not start.

Probable cause

1. Auxiliary hydraulic direction switch is activated sending oil over relief valve. (Will see black smoke.)
2. Injection pump fuse blown.
3. Main power fuse B blown.
4. Main power relay B not activating.
5. Poor wire connection at injection pump or fuse.
6. Glow plugs not heating. (Will see black smoke.)
   a) Main glow plug fuse blown.
   b) Glow plug relay not activating.
   c) Poor wire connections at ignition switch, relay, or glow plug strip.
   d) Failed glow plugs.
   e) Bad ignition switch.

Problem 3

Machine starts but hydraulics will not operate.

Probable cause

1. Lap bar must be in down position, operator must be seated in seat, and front door (if installed) must be closed.
2. Safety fuse blown.
3. Faulty operator presence switch.
   a) Test continuity through seat, lap bar, and door switch. Adjust or replace as necessary. Lap bar and door switch are magnetic switches and should be adjusted to approximately 1/16 inch away from steel pickup bracket.
4. Poor ground (check ground wires on bottom left rear side of hydraulic reservoir).
5. Safety relay is not activating.
6. Faulty safety solenoid or safety solenoid spool.
7. Poor wire connections on fuse, relay, or safety solenoid.
8. Low charge pressure.

Problem 4

Loader operates but tracks will not move.

Probable cause

1. Leak in feed line to pilot control.
2. Pilot control malfunctioning.

Problem 5

Tracks operate but loader will not operate.

Probable cause

1. Auxiliary direction switch activated sending oil over relief.
2. Check to see if auxiliary flow works. (If auxiliary flow works, skip to number 5).
3. Main auxiliary relief malfunction.
4. Auxiliary pump bad.
5. Leak in feed line to loader control pilot.
6. Loader control pilot malfunctioning.

Problem 6

Auxiliary flow does not work. Loader works.

Probable cause

1. Auxiliary mode switch in opposing position.
   a) Auxiliary mode switch in part-time position operates yellow thumb switch.
   b) Auxiliary mode switch in full-time position operates direction switch on right hand dash.
2. Auxiliary hydraulic fuse blown.
3. Faulty ground wire.
   a) Clean ground connections on left rear side of hydraulic tank.
4. Auxiliary hydraulic direction switch failure.
5. Poor wire connections at fuse, direction switch, or pin connector P17.
6. Auxiliary hydraulic pilot generation spool stuck.
7. Bad or not fully connected Quick-Coupler

Problem 7

Auxiliary hydraulic part-time thumb switch operates but full-time flow direction switch will not operate.

Probable cause

1. Auxiliary hydraulic mode switch in wrong position or faulty.
2. Auxiliary direction switch faulty.
3. Poor wire connections at mode switch or direction switch.

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16. Maintenance

Chapter Overview

This chapter contains maintenance requirements and procedures for the following All Surface Loader components.

- Engine oil
- Hydraulic fluid and filter
- Fuel filter
- Track tension
- Air cleaner
- Fuse box
- Grease fittings

Maintenance Schedule

The general maintenance schedule for the All Surface Loader is listed in Table 16-1.

Table 16-1

Item	Frequency	Lubricant	Capacity
Hydraulic Fluid	500 hrs	Rykon MV	8 gal/30 l
Hydraulic Filter	250 hrs		
Engine Oil	250 hrs	Recommended	4 qt/3.79 l
Engine Filter	250 hrs		
Fuel Filter	500 hrs		
Primary Air Filter	Check daily, clean and reuse as needed up to 5 times; change at least once per year		
Secondary Air Filter	Every 3 cleanings of primary filter		
Grease Fittings	10 hrs	Low-temp grease	
Track Tension	As needed		

NOTICE

When replacing engine coolant, use Caterpillar Extended Life Coolant or equivalent antifreeze with the proper SCA (Supplemental Cooling Additive)

Engine Oil

The normal oil change interval is every 250 service hours or six months, whichever comes first. Engines that are operated under severe conditions may need the oil changed every 100 service hours or every 3 months, whichever comes first. Severe operating conditions include: high temperatures, continuous high loads and dusty conditions.

Oil Change Procedures

1. Run the engine for a few minutes to warm the engine oil.

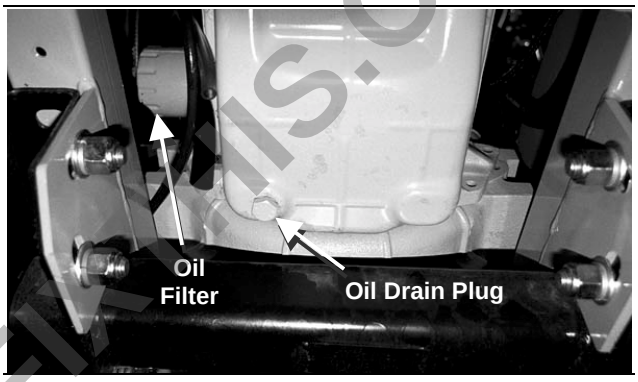


Figure 16-1 16-001

2. Remove the drain plug from the bottom of the engine.
3. Drain oil into suitable container.
4. Remove engine oil filter, making sure the gasket is also removed.
5. Put some fresh oil on the new filter gasket and install new filter.
6. Tighten filter to specifications on filter label.
7. Refill engine to capacity with oil, as specified.

Engine Oil Specifications

Due to the significant variations in the quality and performance of commercially available oils, the manufacturer makes the following recommendations:

- Caterpillar Diesel Engine Oil – 10W30 (-4°F to 104°F)
- Caterpillar Diesel Engine Oil – 15W40 (5°F to 122°F)

If Caterpillar multigrade Diesel Engine Oil is not used, only use commercial oils that meet the following classifications:

- EMA LRG-1 multigrade oil
- API CG-4 multigrade oil
- API CH-4 multigrade oil
- API CF-4 multigrade oil

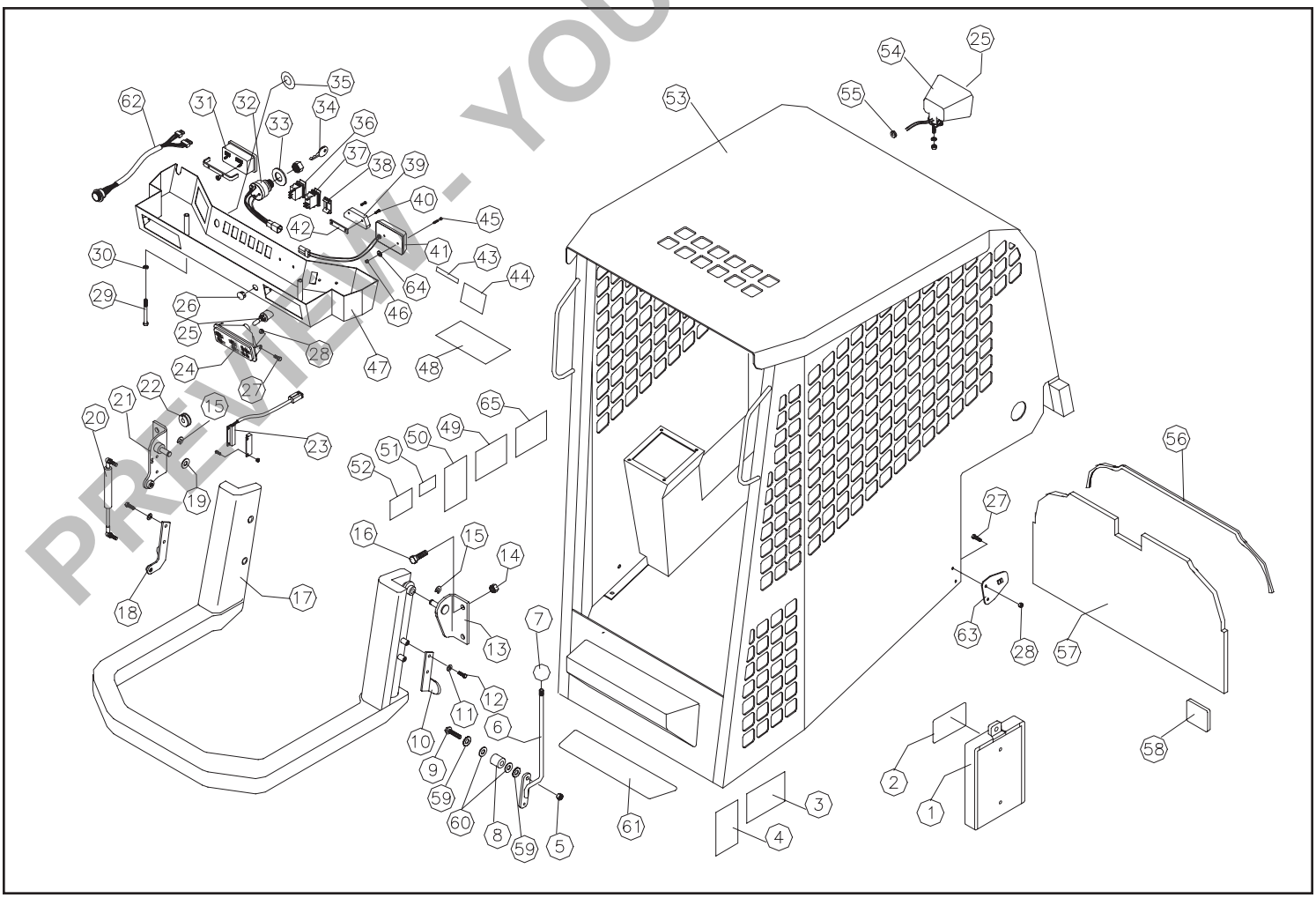
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CAB (R.O.P.S.) ASSEMBLY (SN: RSA00101-2092)

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
1	0304-318	1	BOX,OWNERS MANUAL
2	0304-320	1	DECAL,OWNER'S MANUAL
3	0304-306	1	DECAL,WARNING,LOAD
4	0310-169	1	FILM-DANGER (LOADER) (REACHING
5	8040-486	1	NUT,HEX,NYLOCK,3/8-16 UNC,ZN
6	0304-276	1	WLMT,LEVER,THROTTLE
7	0302-546	1	KNOB,PLASTIC,1-7/8 DIA,1/2-13
8	0304-501	1	TUBING, SPACER
9	0304-602	1	CAPSCREW,FH,WIZLOC,3/8-16X1.75
10	0304-466	1	STOP,LAPBAR
11	8050-240	4	WASHER,STAINLESS,1/4",MS
12	0304-465	4	CAPSCREW,HH,M6-1.0x16mm
13	0304-467	1	BRKT,LAPBAR
14	8040-606	4	NUT,HEX,NYLOCK,1/2-13 UNC,ZN
15	0304-468	2	RING,SNAP,LAPBAR
16	8102-404	4	CAPSCREW,HH 1/2-13UNCx1.25 GD8
17	0304-469	1	LAPBAR
18	0304-470	1	MNT,LAPBAR
19	0304-477	2	SPACER,LAPBAR
20	0304-471	2	SPRING,GAS,ASSIST
21	0304-472	1	MNT,LAPBAR,SWITCH
22	0304-476	1	GROMMET,RUBBER
23	0304-473	1	SENSOR,SWITCH,LAPBAR
24	0304-474	2	HOUSING,HEADLIGHT
25	0304-475	3	BULB,HEADLIGHT
26	0304-411	1	PLUG, HOLE, 3/4", PLASTIC
27	8102-037	8	CAPSCREW,HH,1/4-20 UNCx.50,GD8
28	8040-366	8	NUT,HEX,NYLOCK,1/4-20 UNC,ZN
29	8102-141	2	CAPSCREW,HH,5/16-18UNCx3.0,GD8
30	8051-242	2	WASHER,SPRING LOCK,5/16,ZN
31	0304-022	1	GAUGE,CONSOLE
32	0304-028	1	SWITCH,IGNITION,RC
33	8050-620	1	WASHER,WROUGHT,1.0,SAE,ZN
34	0310-072	1	KEY,SWITCH,START
35	0304-308	1	DECAL,IGNITION SWITCH
36	0304-124	1	SWITCH,ON/ON,SELECTOR,MODE
37	0310-126	1	SWITCH,LIGHT
38	0310-138	4	PLUG
39	0304-219	1	GAUGE,LEVEL
40	8004-220	2	CAPSCREW,HH,3/8-24 UNFx.75,GD5

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
41	0304-514	1	ASSY,LIGHT,DOME
42	0304-430	2	PLATE,MNT
43	0304-307	1	DECAL,SIDE SLOPE
44	0304-302	1	DECAL,OPERATING INSTRUCTIONS
45	8005-224	2	CAPSCREW,SOC HD,#6-32UNCx1.25
46	8041-801	2	NUT,HEX,NYLOCK, 6-32
47	0304-463	1	WLMT,BAR,LIGHT
48	0310-122	1	FILM-WARNING (MOUNT) (DISMOUNT
49	0310-143	1	FILM-WARNING,RIDERS
50	0304-314	1	DECAL,JOYSTICK,AUXILIARY
51	0304-304	1	DECAL,SWITCH,FLOW
52	0304-305	1	DECAL,THROTTLE
53	0304-181	1	ROPS,RC30
54	0304-247	1	LIGHT,REAR
55	0301-637	1	GROMMET (1840)
56	0304-393	1	TRIM,FIREWALL
57	0304-323	1	INSULATION,FIREWALL
58	1066-007	2	FOAM,STRIP,ADHES BACK,3.5 x .3
59	0303-099	2	WASHER,STAR,3/8,INT/EXT TOOTH
60	0303-071	2	WASHER,NYLON,BLACK,1" OD
61	0304-496	1	PAD,SKID
62	0304-650	1	HARNESS,GAUGE
63	0304-657	2	WLMT,PLATE
64	0302-965	2	WASHER,RIVET,#7
65	0201-265	1	DECAL,WARNING,FIRE HAZARD



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DASH/OVERHEAD CONSOLE

FUSE PANEL

LEFT CONSOLE

RIGHT CONSOLE

ENGINE

DOOR SWITCH

LAP BAR

SEAT SWITCH

FUEL SENDER

PILOT GENERATION

HORN

BACKUP ALARM

ALARM SWITCH

WIRE NUMBER	WIRE COLOR	DESCRIPTION
		POWER DISTRIBUTION CIRCUITS
101	RD	BAT (+)
103	YL	HOUR MTR.
104	YL	AUX. HYD. CONTROL
105	BR	KEY SWITCH
106	WH	CONSOLE/SEAT SOLENOID
108	BU	AUX. HYD. PWR
109	GR	ALT. OUTPUT
110	GN	AUX. SW. PWR
111	YL	ALT. FIELD
115	PK	AUX. HYD. COIL #1
119	BR	AUX. HYD. COIL #2
120	YL	HOUR MTR. / ALT. FLY COIL
125	OR	HEATER FAN SW PWR
127	OR	AUX. HYD. CONTINUOUS SW.
128	PK	AUX. HYD. MCL. (JOYSTICK)
308	YL	MAIN PWR. RLY. COIL
309	GY	ALT. PWR. FROM DIODE
322	PU	IGN. SW. TO GLOW PLUG RLY.
321	BR	BACKUP ALARM SENDER
322	GY	HORN
501	GN	WIPER PWR
600	BR	LIGHTS
600	PK	BEACON
		CONTROL CIRCUITS
112	PU	MAIN PWR RLY OUT
117	YL	AUX. HYD. RLY. OUT #1
118	GY	AUX. HYD. RLY OUT #2
123	WH	HORN BUTTON TO HORN

WIRE NUMBER	WIRE COLOR	DESCRIPTION
		CONTROL CIRCUITS
140	BU	FROM AUX. SW.
141	PK	FROM BEACON SW.
143	BR	FROM FAN SW.
144	GN	FROM WIPER SW.
304	WH	STARTER RLY OUT
306	GN	STARTER RLY COIL TO IGN. SW.
376	GN	GLOW PLUG RLY TO GLOW PLUGS
453	WH	DETENT
453A	YL	SAFETY RLY TO SOL.
		STANDARD ALARM
122	BU	BACKUP ALARM SENDER OUT
		LIGHTING CIRCUITS
600	WH	FLOOD LAMP FRONT
601	PK	FLOOD LAMP REAR
		MONETARY CIRCUITS
110	PK	ALT. RLY. TO AMP LIGHT
129	BU	IGN. SW TO GLOW PLUG LIGHT
		GROUND CIRCUITS
200	BK	MAIN CHASSIS
201	BK	OP. MON. RETURN
235	BK	OIL PRESS. SENDER
221	BK	COOLANT TEMP SENDER
226	BK	OIL TEMP SENDER
228	BK	FUEL LEVEL SENDER

WIRES THAT HAVE BATTERY VOLTAGE WHEN THE KEY SWITCH IS OFF.

WIRES THAT HAVE BATTERY VOLTAGE WHEN THE KEY SWITCH IS ON.

STARTING CIRCUIT

GAUGE CIRCUIT

ACTION LAMP CIRCUIT

PANEL LAMP CIRCUIT

WASHER/WIPER CIRCUIT

GROUND CIRCUIT

ENGINE SHUTDOWN CONTROL CIRCUIT

OPERATOR INTERLOCK CIRCUIT

START AID CIRCUIT

DASHED LINES ARE ATTACHMENT/OPTION

RC•30 HYDRAULIC SCHEMATIC

DRIVE CONTROL

DRIVE MOTOR

BRAKE

OPTIONAL BACK-UP
ALARM SWITCH

FILTER

TRANSMISSION

AUX
PUMP

PILOT
MANIFOLD

LIFT/LOWER

DUMP/CURL

COOLER

OPT
DRAIN
COUPLER

COUPLER
MANIFOLD

COOLER
BYPASS

STRAINER

LOADER CONTROL

DRIVE MOTOR

LOADER VALVE

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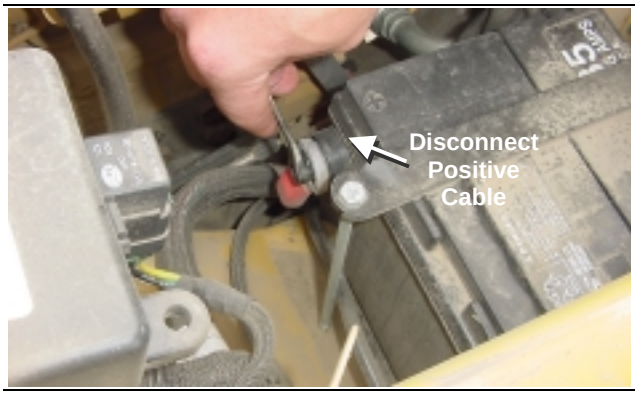


Figure 11-18 11-008

3. Disconnect the battery cable from the positive battery terminal.



Figure 11-19 11-009

4. Remove the two capscrews from the battery holdown bracket and remove the bracket.

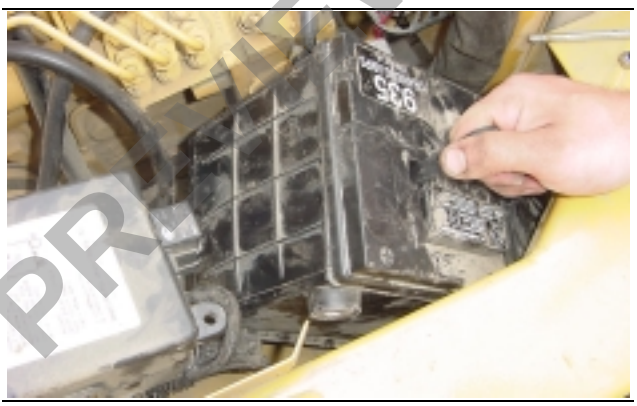


Figure 11-20 11-010

5. Rotate the battery 90 degrees counter-clockwise. Tilt up the front of the battery and remove the battery from the machine.

Battery Installation



Figure 11-21 11-011

1. Place the battery in position in the engine compartment.



Figure 11-22 11-009

2. Position the battery holdown bracket and install the two capscrews and nuts.

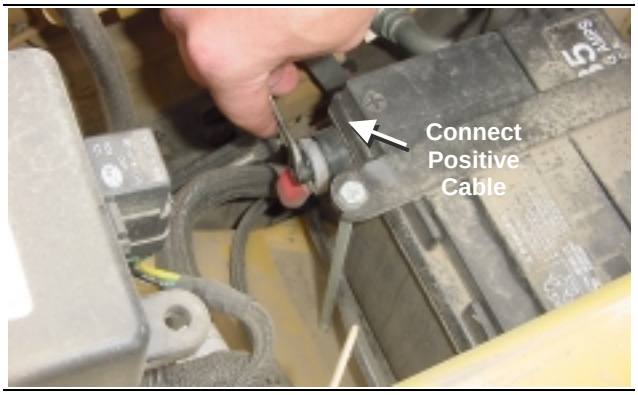


Figure 11-23 11-008

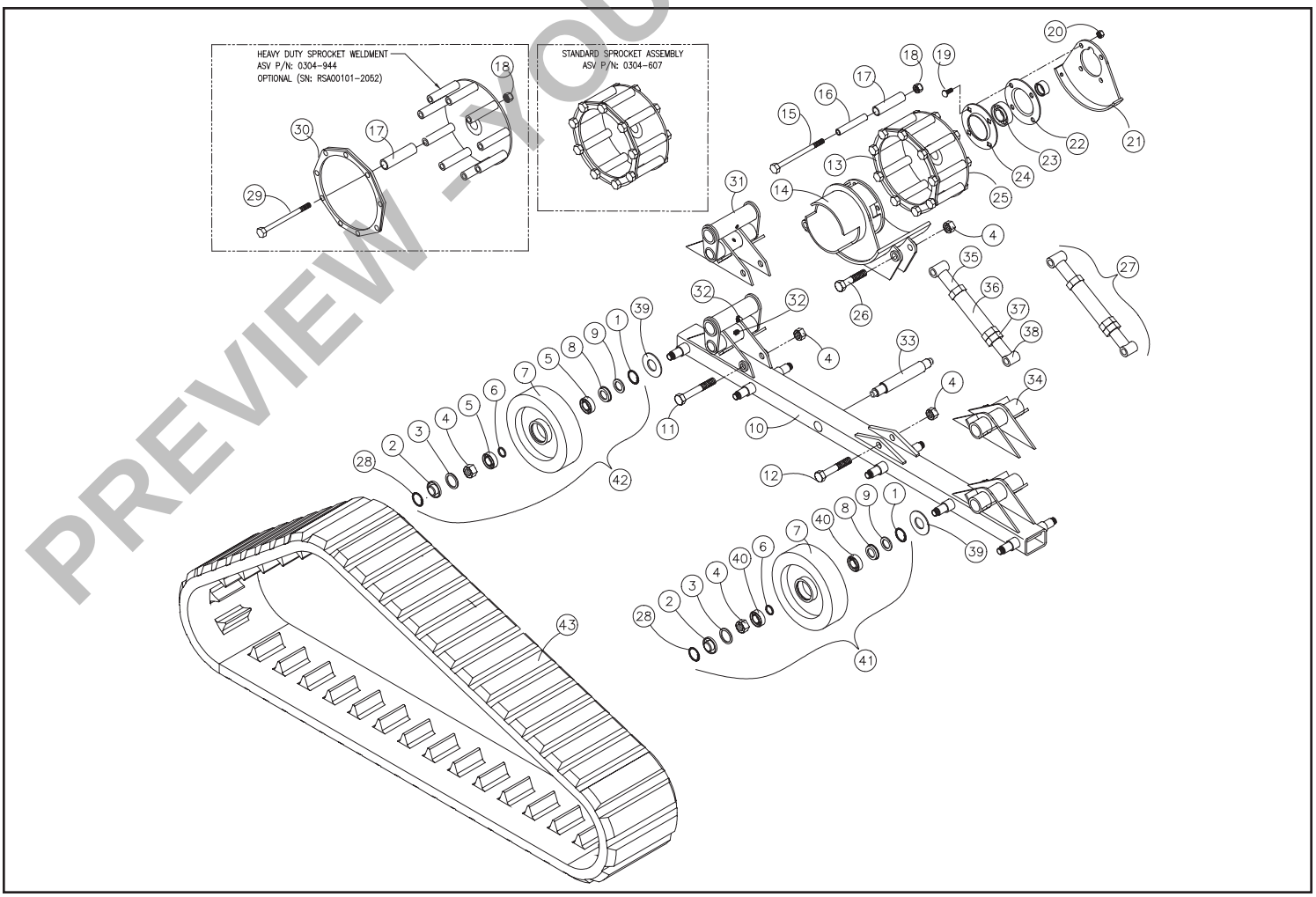
3. Connect the battery cable to the positive battery terminal.

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UNDERCARRIAGE ASSEMBLY LT (SN: RSA00101-2052)

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
1	0304-118	24	SNAP,RING
2	0304-113	12	WHEEL,CAP
3	0304-661	12	SEAL,GASKET,WHEEL
4	8041-786	15	NUT,HEX,NYLOCK,3/4-10 UNC,THIN
5	2010-062	8	BEARING,ROLLER,NUP-205E
6	0304-097	12	SPACER,BEARING
7	0304-101	12	WHEEL,10"
8	0303-141	12	SEAL,APY,1.250x2.062x.450
9	0304-117	12	GUARD,BEARING
10	0304-067	1	WLMT,RAIL,LEFT
11	8102-685	1	CAPSCREW,HH 3/4-10UNCx 4.5 GD8
12	8102-684	1	CAPSCREW,HH3/4-10 UNC 4" GD8,Z
13	0304-108	1	RING,SPROCKET,OUTER
14	0304-055	1	WLMT,TABLE,LH
15	8102-417	9	CAPSCREW,HH,1/2-13 UNCx5.5,GD8
16	0304-098	9	TOOTH,DRIVE,SPROCKET
17	0304-806	9	TUBE,SPROCKET
18	0700-124	9	NUT,TOPLOCK,1/2-13UNC,ZN,GD8
19	8011-402	4	BOLT,CARRIAGE,1/2-13 UNCx1.0,Z
20	8041-606	4	NUT,HEX,NYLOCK,1/2-13 UNC,THIN
21	0304-090	1	WLMT,MNT,BEARING
22	0301-550	1	FLANGE W/ZERK,BEARING,1.5
23	0301-551	1	ASSY,BEARING,1.50
24	0301-549	1	FLANGE,BEARING,1.5
25	0304-109	1	WLMT,SPROCKET,DRIVE
26	8102-720	1	CAPSCREW,HH3/4-10UNC 3.25",GD8
27	0304-070	1	TENSIONER,TRACK,RC
28	0304-319	12	RING,SNAP,INNER WHEEL,PLATED
29	8102-418	9	CAPSCREW,HH,1/2-13UNCx 6.0,GD8
30	0304-915	1	RING,SPROCKET,OUTER
31	0304-995	1	WLMT,MNT,REAR,LH
32	0304-427	2	FITTING,GREASE,1/8 NPT x 45^
33	0304-060	6	SHAFT,AXLE
34	2010-097	1	WLMT,AXLE,FRONT,LH
35	2010-046	1	WLMT,THREADED-T,LH
36	2010-045	1	WLMT,TURNBUCKLE
37	0304-077	1	NUT,HEX,JAM,1 1/4 - 7,RH
38	2010-047	1	WLMT,THREADED-T,RH
39	0304-911	12	WASHER,SPACER
40	0302-591	16	BEARING,BALL,6205 W/O SEALS
41	0304-407	4	ASSY,WHEEL
42	2010-108	4	ASSY,WHEEL,END,SERVICE
43	0304-003	1	TRACK,11"WIDE,PROFILE2



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