2. Technical Specifications

RC-60 Specifications

Engine

- Model: Cat 3024CT
- Displacement: 2.2 liter
- Gross horsepower: 60 hp, 44.7 kW
- Torque: 140 lb-ft.190 Nm
- Idle rpm: 2800 (high idle); 1175 (low idle)
- Average water /thermostat temperature: 190°F, 87.8°C

Transmission

- Model: Cat AA20VG45T tandem (Rexroth)

Drive pumps

- Displacement: 2.7459 in^3/rev (45 cc/rev)
- Relief pressure: 5500 psi, 380 bar
- Flow: 33.2 gpm (125 lpm) @ 2800 rpm (high idle)

Charge pump

- Displacement: 1.098 in^3/rev (18 cc/rev)
- Relief pressure: 400-450 psi

Drive Motors

- Model: Rexroth MCR 05C
- Displacement: 37.8 in^3/rev (620 cc/rev)

Control Handles

- Model: CAT 4TH6

Auxiliary Pump

- Make: Haldex-Barnes #180-2061
- Displacement: 1.343 in^3/rev (22 cc/rev)
- Flow: 16.27 gpm (61.85 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 introduced 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: 80 psi (689 kPa)
- Hot oil sending unit: 225°F (107.2°C)

Critical Torque Specs

- Transmission Mounting Bolts
  - 85 ft-lb. w/Blue Loctite
- Drive Sprocket Drive Teeth Bolts
  - 105 ft-lb. -Dry
- Bogie Wheel Retaining Nut
  - 125 ft-lb. -Dry
- Drive Sprocket Lug Nut
  - 160 ft-lb. -Dry
- Drive Motor Mounting Bolts
  - 160 ft-lbs. -Dry

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3. System Diagrams

Chapter Overview

This chapter contains diagrams for the following RC-60 systems.

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

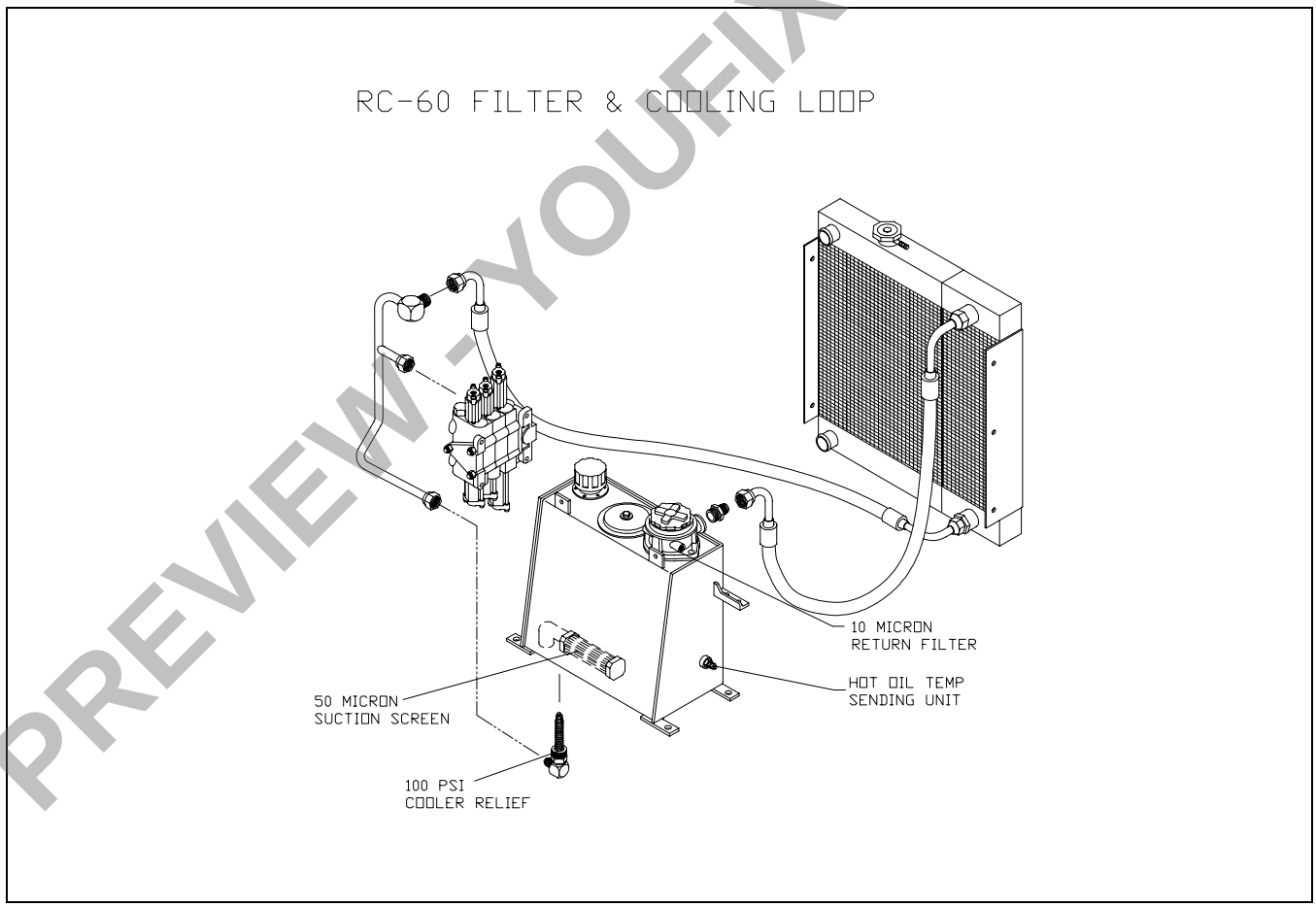
Filtering and Cooling System

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

- Hydraulic reservoir
- Radiator/oil cooler
- Loader valve

Figure 3-1

RC-60 Filtering and Cooling System 3-001



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5. Operator Enclosure Disassembly and Assembly

Chapter Overview

This chapter provides disassembly and assembly procedures for the operator enclosure assembly.

Personal Safety

! WARNING !

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product until you have read and understood the operation, lubrication, maintenance and repair information.

Before starting any disassembly or assembly procedures, refer to *Chapter 2. Product Safety – Basic Precautions* for personal safety information.

Machine Preparation

! WARNING !

Accidental machine starting can cause injury or death to personnel working on the machine.

To avoid accidental machine starting, disconnect the battery cables from the battery and tape the battery clamps and remove the key.

Place a "Do Not Operate" tag prominently on the machine to inform personnel that the machine is being worked on.

Before starting any disassembly or assembly procedures, refer to *Chapter 2. Product Safety – Repair* for machine preparation information.

Preliminary Checkout

If troubleshooting is required prior to disassembly or assembly, refer to *Chapter 15. Troubleshooting*.

Operator Enclosure Disassembly and Assembly Procedures

Disassembly and assembly procedures are provided for the following operator enclosure components.

- Light Bar
- Ignition Switch
- Console Gauge/Warning Panel
- Lap Bar Gas Assist Spring

Note: Procedures are provided for only those operator enclosure components listed above. However, information for removal and installation of other operator enclosure components can be obtained from the Rubber Track Loader Parts List manual.

Light Bar Removal and Installation

The tools required for light bar console removal and installation are listed in Table 5-1. Use manufacturer-recommended tools whenever possible.

Table 5-1

Required Tools
Combination Wrench

Light Bar Removal



Figure 5-1 5-001

1. Remove the two bolts that attach the light bar to the cab frame.

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13. Maintenance

Chapter Overview

This chapter contains maintenance requirements and procedures for the following Rubber Track Loader components.

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

The general maintenance schedule for the Rubber Track Loader is listed in the table below.

Item	Frequency	Lubricant	Capacity
Hydraulic Fluid	500 hrs	**ASV Posi-Lube Hydraulic Oil**, or Rykon MV	8 gal/30 l
Hydraulic Filter	250 hrs		
Engine Oil	250 hrs	**Posi-Lube HD Diesel Engine Oil**, or other	2.6 gal/9.8 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	**Posi-Lube Lithium Grease**	
Track Tension	As needed		
Coolant	Test for coolant additive at 250 hrs. Change at 1000 hrs or two years		

NOTICE

When replacing engine coolant, use **Posi-Lube Long Life 50/50 Antifreeze/Coolant**, 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.

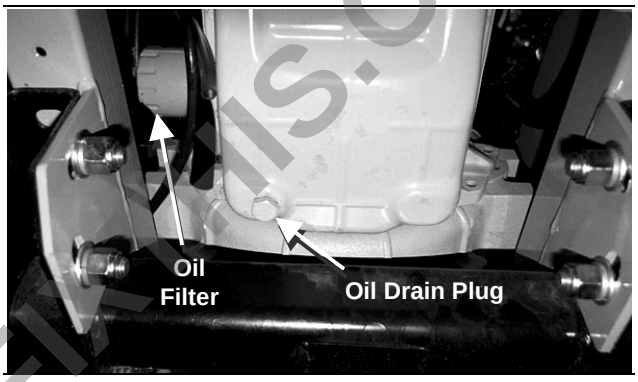


Figure 16-1 16-001

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, ASV **Posi-Lube Heavy Duty Diesel Engine Oil** – 10W30 is recommended. If Posi-Lube is not available, use one of the the following:

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

Use 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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Troubleshooting

This section identifies selected problems and suggests probable causes.

Problem 1

Machine will not crank over.

Probable cause

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

Problem 2

Machine cranks but will not start.

Probable cause

1. Injection pump fuse blown.
2. Main power fuse B blown.
3. Main power relay B not activating.
4. Poor wire connection at injection pump or fuse.
5. 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.
3. Low pilot pressure.

Problem 5

Tracks operate but loader will not operate.

Probable cause

1. Continuous hyd. flow 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.
7. Loader valve malfunctioning.

Problem 6

Auxiliary flow does not work. Loader works.

Probable cause

1. Auxiliary hydraulic fuse blown.
2. Faulty ground wire.
   a) Clean ground connections on left rear side of hydraulic tank.
3. Auxiliary hydraulic switch failure.
4. Poor wire connections at fuse, auxiliary hyd. switch, or pin connector P17.
5. Auxiliary hydraulic pilot generation spool stuck.
6. Bad or not fully connected Quick-Coupler

Problem 9

Auxiliary hydraulics will only flow one way. Try both continuous flow and intermittent thumb switch.

Probable cause

1. Auxiliary hydraulic relay 1 or 2 failure.
2. Auxiliary hydraulic pilot generation coil faulty.
3. Auxiliary hydraulic pilot generation spool faulty.
4. Poor wire connections at relay, pilot generation solenoid, pin connector P16 or P21.
5. Loader valve malfunction.

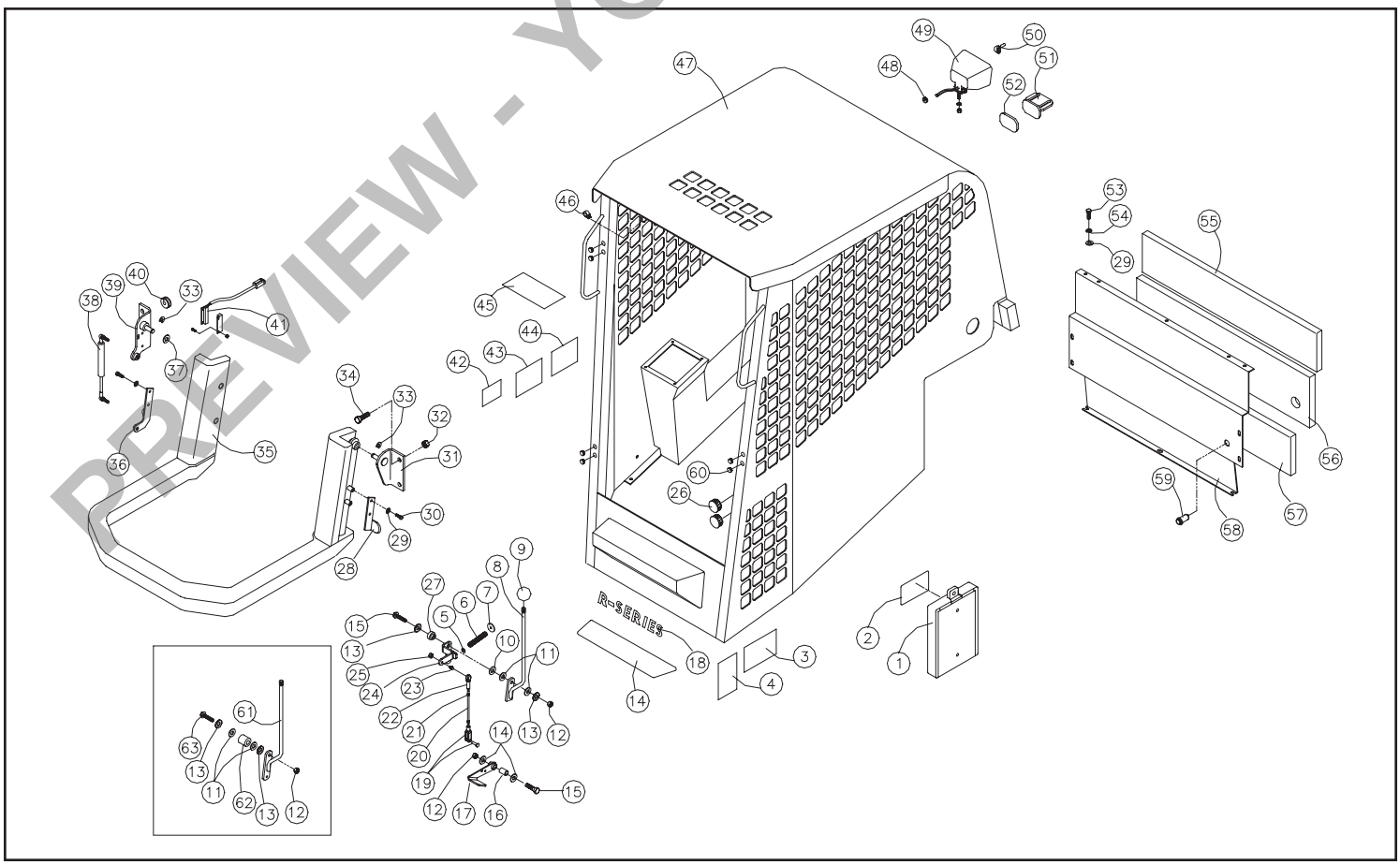
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CAB (R.O.P.S.) ASSEMBLY (Serial #: RSE 00101-Current)

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	8050-157	1	WASHER,WROUGHT,3/16,STD,ZN
6	2030-220	1	SPRING,2.25x0.45
7	0301-033	1	WASHER,FENDER,1/4 x 1 1/4,STL,
8	2030-218	1	LEVER,THROTTLE
9	0302-546	1	KNOB,PLASTIC,1-7/8 DIA,1/2-13
10	8050-282	7	WASHER,WROUGHT,3/8,STD,ZN
11	0303-071	2	WASHER,NYLON,BLACK,1" OD
12	8040-486	6	NUT,HEX,NYLOCK,3/8-16 UNC,ZN
13	0303-099	2	WASHER,STAR,3/8,INT/EXT TOOTH
14	0304-496	1	PAD,SKID
15	8102-227	2	CAPSCREW,HH,3/8-16UNCx2.0 GD8
16	0201-865	1	BUSHING,FOOT PEDAL
17	0201-925	1	WLMT,PEDAL
18	0304-422	1	DECAL,R-SERIES
19	0201-902	1	CLEVIS,1/4-28,W/PIN
20	2030-219	1	ROD,THREADED,1/4x28x4375
21	0301-121	2	NUT,JAM,1/4-28 UNF
22	0314-215	1	CONNECTOR,JOINT,BALL
23	0314-214	1	STUD,JOINT,BALL
24	0200-567	1	BRACKET,THROTTLE
25	8040-396	2	NUT,HEX,NYLOCK,1/4-28 UNF,ZN
26	0307-606	1	PLUG,FINSISHING,STEEL,1-3/8"
27	0201-867	1	BUSHING
28	0304-466	1	STOP,LAPBAR
29	8050-240	10	WASHER,STAINLESS,1/4",MS
30	0304-465	4	CAPSCREW,HH,M6-1.0x16mm
31	0304-467	1	BRKT,LAPBAR
32	8040-606	4	NUT,HEX,NYLOCK,1/2-13 UNC,ZN
33	0304-468	2	RING,SNAP,LAPBAR
34	8102-404	4	CAPSCREW,HH 1/2-13UNCx1.25 GD8
35	0304-469	1	LAPBAR
36	0304-470	1	MNT,LAPBAR
37	0304-477	2	SPACER,LAPBAR
38	0304-471	2	SPRING,GAS,ASSIST
39	0304-472	1	MNT,LAPBAR,SWITCH
40	0304-476	1	GROMMET,RUBBER

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
41	0304-473	1	SENSOR,SWITCH,LAPBAR
42	0304-305	1	DECAL,THROTTLE
43	0310-143	1	FILM-WARNING,RIDERS
44	0201-265	1	DECAL,WARNING,FIRE HAZARD
45	0310-122	1	FILM-WARNING (MOUNT) (DISMOUNT
46	0304-400	6	CLIP,FASTENER
47	0200-175	1	WLMT,CAB
48	0301-637	1	GROMMET (1840)
49	0304-247	1	LIGHT,REAR
50	0200-288	1	BULB,HALOGEN
51	0200-320	2	WLMT,STOP LAP BAR
52	0200-321	2	PAD,RUBBER,W/ADHESIVE
53	8102-044	5	CAPSCREW,HH,1/4-20UNCx1.25,GD8
54	8051-212	5	WASHER,SPRING LOCK,1/4,ZN
55	0200-290	1	INSULATION,TOP
56	0200-291	1	INSULATION,MIDDLE
57	0200-292	1	INSULATION,BOTTOM
58	0200-328	1	PLATE,FIREWALL
59	0200-264	1	HOUSING,POWER SOURCE
60	0304-579	6	PLUG,HOLE,PLASTIC,5/16
61	0304-276	1	WLMT,LEVER,THROTTLE
62	0304-501	1	TUBING, SPACER
63	0304-602	1	CAPSCREW,FH,WIZLOC,3/8-16X1.75



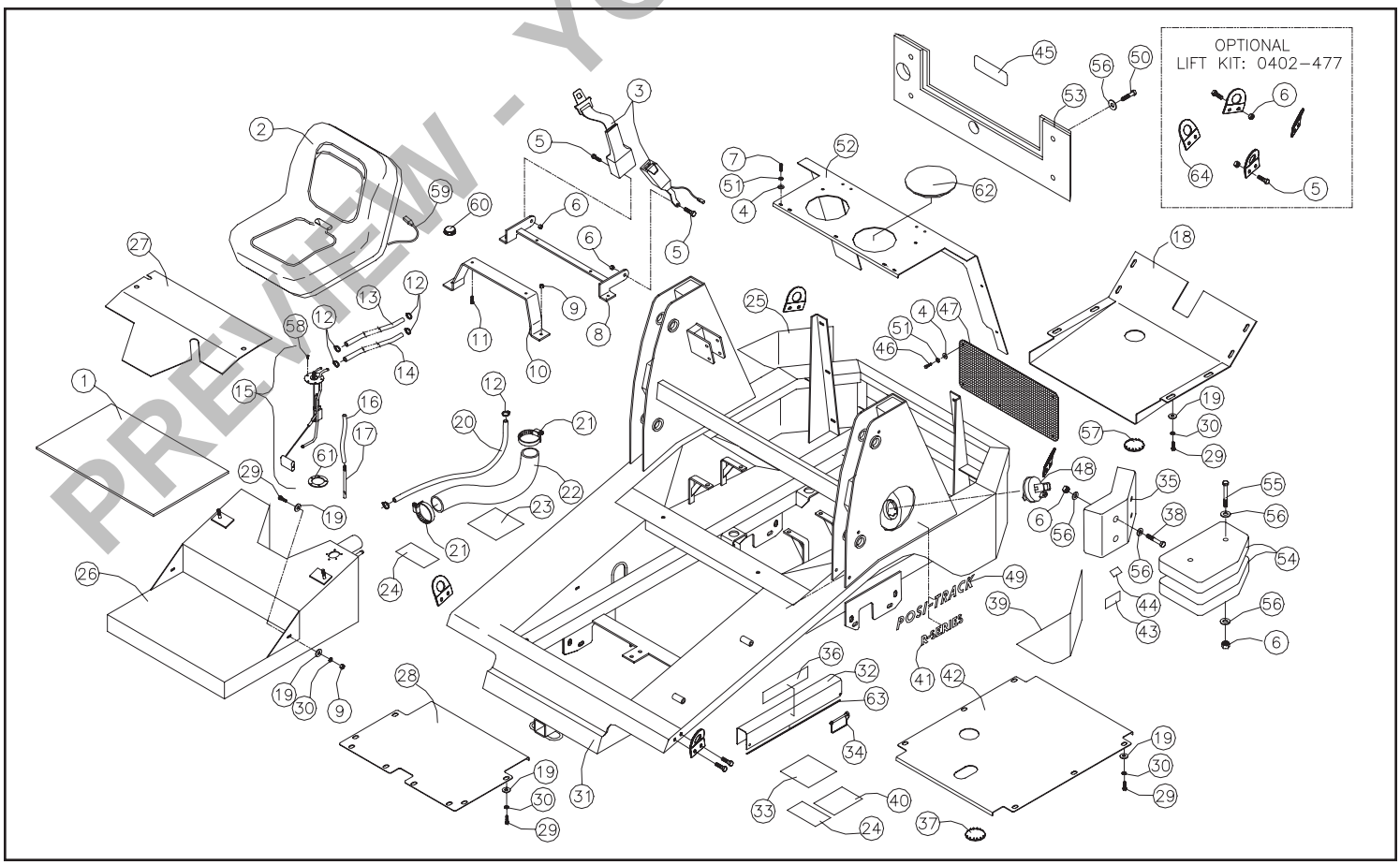
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CHASSIS ASSEMBLY (Serial #: RSE 00101-Current)

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
1	0200-217	1	MAT,FLOOR,50 SERIES.
2	0304-045	1	SEAT
3	0304-248	1	BELT,SEAT 2" RETRACTABLE
4	8050-222	5	WASHER,WROUGHT,1/4,STD,ZN
5	8102-404	10	CAPSCREW,HH 1/2-13UNCx1.25 GD8
6	8040-606	23	NUT,HEX,NYLOCK,1/2-13 UNC,ZN
7	8102-042	5	CAPSCREW, HH 1/4-20UNC 1" GD8
8	0304-206	1	WLMT,MNT,SEAT,REAR
9	8040-486	4	NUT,HEX,NYLOCK,3/8-16 UNC,ZN
10	0304-201	1	MNT,SEAT,FRAME
11	8102-130	4	CAPSCREW,HH 5/16-18x3/4,GR8
12	0300-732	6	CLAMP,HOSE,#4
13	0200-361	1	HOSE,FUEL,3/16IDx35.00"
14	0200-353	1	HOSE,FUEL,5/16IDx30.00"
15	0304-600	1	ASSY,UNIT,SENDING,FUEL
16	0304-447	1	HOSE,7/16X5/16POLY,1.30FT
17	0301-375	1	WEIGHT,IN-TANK
18	0200-139	1	PLATE, SKID, REAR
19	8050-262	26	WASHER,WROUGHT,5/16,STD,ZN
20	0304-509	1	HOSE,FUEL,5/16x26"
21	0300-686	2	CLAMP,HOSE,2.0,#32
22	0304-037	1	HOSE,FILL,DIESEL,FUEL
23	0304-315	1	DECAL,CONTROL,LIFT ARM
24	0310-139	2	FILM-DANGER (LOADER) (CRUSHER)
25	0200-138	1	DECAL,FENDER,REAR,RH
26	0200-135	1	WLMT,TANK,FUEL
27	0200-307	1	PLATE,FILLER,FLOOR
28	0200-134	1	PLATE,SKID,FRONT
29	8102-222	24	CAPSCREW,HH,3/8-16 UNCx1.0,GD8
30	8051-272	24	WASHER,SPRING LOCK,3/8,ZN
31	2030-082	1	WLMT,CHASSIS,RC60
32	2030-154	1	WLMT,LOCK,LOADER
33	0304-316	1	DECAL,CONTROL,DRIVE
34	0201-477	1	PIN,LOCKING,D-RING,3.00"
35	2030-109	2	WEIGHT,REAR,SIDE
36	0201-752	1	DECAL,BRACE,FENDER
37	0310-423	2	PLUG,STEEL,3.00"
38	8102-406	8	CAPSCREW,HH,1/2-13UNCx1.75,GD8
39	0200-137	1	DECAL,FENDER,REAR,LH
40	0304-313	1	DECAL,WARNING,LOADER LOCK

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
41	0200-271	3	DECAL,R-SERIES
42	0200-179	1	PLATE,SKID,CENTER
43	0300-407	2	DECAL,TRACK,WARNING
44	0301-416	1	DECAL,FUEL-ONLY,DIESEL
45	0200-272	1	DECAL,ASV LOGO
46	8102-040	7	CAPSCREW,HH,1/4-20 UNCx.75,GD8
47	0200-140	1	SCREEN,BACK,CHASSIS
48	0310-516	1	CAP,FILLER,HOSE
49	0200-270	2	DECAL,POSI-TRACK,R-SERIES
50	8102-410	4	CAPSCREW,HH 1/2-13UNCx2.75 GD8
51	8051-212	10	WASHER,SPRING LOCK,1/4,ZN
52	0200-105	1	PLATE,ENGINE,SURROUND
53	0200-235	1	WEIGHT,REAR
54	0200-167	4	WEIGHT
55	8102-417	4	CAPSCREW,HH,1/2-13 UNCx5.5,GD8
56	8050-347	24	WASHER,WROUGHT,1/2,STD,ZN
57	0310-423	2	PLUG,STEEL,3.00"PLUG,STEEL,3.00"
58	0304-157	6	SCREW,ORING,3/16-32x1/2
59	0304-662	1	HARNESS,SWITCH,SEAT
60	2010-127	1	SWITCH,SEAT (TWIST IN STYLE)
61	0304-617	1	GASKET,TANK,FUEL
62	0200-437	2	PLUG,HOLE,6"
63	2030-188	2	FOAM,LOADER LOCK,15 1/2"
64	0314-032	4	PLATE,LIFT,FRONT



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RC-60
HYDRAULIC
SCHEMATIC

2030-167

SELF LEVELING VALVE
0201-625

DRIVE CONTROL

OPTIONAL BACK-UP
ALARM SWITCH

DRIVE MOTOR

FILTER

LIFT/LOWER

DUMP/CURL

TRANSMISSION

AUX
PUMP

STRAINER

COOLER

OPT
DRAIN
COUPLER

COUPLER
MANIFOLD

COOLER
BYPASS

PILOT
MANIFOLD

LOADER VALVE

LOADER CONTROL

DRIVE MOTOR

1 4 6
DWN DMP
BOOM BUCKET AUX. HYD.
UP CRL
2 5
3

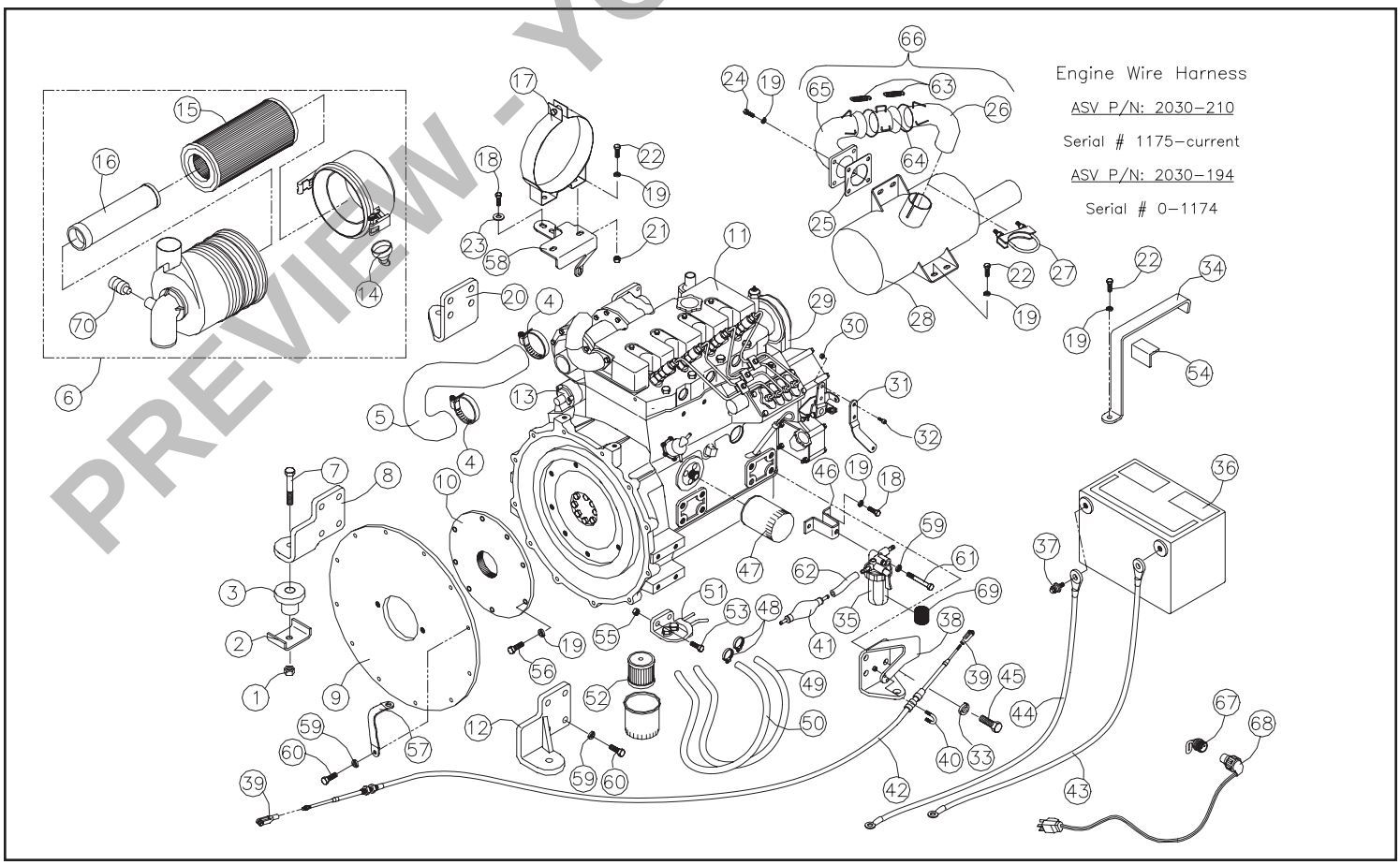
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ENGINE ASSEMBLY (Serial #: RSE 00800-Current)

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
1	8040-606	4	NUT,HEX,NYLOCK,1/2-13 UNC,ZN
2	0200-429	4	WASHER,STOP
3	0300-458	4	MOUNT,ENGINE,REAR
4	0300-686	2	CLAMP,HOSE,2.0,#32
5	0200-495	1	HOSE,INTAKE,3024cT
6	0200-157	1	ASSY,CLEANER,AIR
7	8102-411	4	CAPSCREW,HH,1/2-13 UNCx3.0,GD8
8	0200-165	1	WLMT,MNT,ENGINE,RH
9	0304-900	1	MNT,PLATE,PUMP
10	0304-507	1	PLATE,FLYWHEEL
11	0200-543	1	ENGINE,PERKINS,404C-22T
12	0200-166	1	WLMT,MNT,ENGINE,LH
13	0200-562	1	STARTER (PERKINS #185086600)
14	0304-503	1	VALVE,DUST
15	0200-339	1	FILTER,AIR,PRIMARY
16	0200-340	1	FILTER,AIR,SECONDARY
17	0200-158	1	BAND,MNT,AIR CLEANER
18	0200-329	5	CAPSCREW,HH,M8x1.25x16MM
19	8051-242	17	WASHER,SPRING LOCK,5/16,ZN
20	0200-034	1	MNT,ENGINE,REAR,RH
21	8040-426	2	NUT,HEX,NYLOCK,5/16-18 UNC,ZN
22	8102-130	7	CAPSCREW,HH 5/16-18x3/4,GR8
23	8050-247	2	WASHER,WROUGHT,5/16,SAE,ZN
24	0300-211	4	CAPSCREW,M8 x 1.25 x 25MM LG
25	0304-511	1	GASKET,MUFFLER
26	2030-149	1	PIPE,EXHAUST,MUFFLER END
27	0300-263	1	CLAMP,MUFFLER,2"
28	0200-122	1	MUFFLER,50 SERIES
29	0200-363	1	BELT,FAN
30	8040-246	2	NUT,HEX,NYLOCK,10-24 UNC,ZN
31	0304-078	1	LEVER,THROTTLE
32	8105-429	2	CAPSCREW,SOC HD,10-24X5/8,BLZN
33	8051-431	8	WASHER,SPRING LOCK,5/8,ZN
34	0200-246	1	STRAP,HOLD-DOWN,BATTERY
35	0200-338	1	ASSY,FILTER,WATER
36	0200-160	1	BATTERY,50 SERIES
37	0304-335	2	BOLT,BATTERY,SIDEMOUNT
38	0200-219	1	WLMT,MNT,ENGINE,LH,REAR
39	0300-718	2	W/PIN,CLEVIS (THROTTLE CABLE)
40	0300-581	1	W/NUTS,U-BOLT,1/4-20

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
41	0304-835	1	BULB,PRIMER
42	0300-455	1	CABLE,THROTTLE
43	0200-234	1	CABLE,BATTERY,NEGATIVE
44	0200-199	1	CABLE,BATTERY,POSITIVE
45	0304-131	8	CAPSCREW,HH, M14-1.5 X30MM,GD8
46	0200-178	1	WLMT,BRKT,MNT,FILTER
47	0200-377	1	FILTER,OIL,ENGINE (PERKINS #140517050)
48	0300-732	4	CLAMP,HOSE,#4
49	0304-509	1	HOSE,FUEL,5/16x26"
50	0304-510	1	HOSE,FUEL,5/16x34"
51	0200-215	1	ASSY,FILTER,FUEL,PERKINS,404C22
52	0200-213	1	FILTER,FUEL,PERKINS,404C22
53	8102-220	2	CAPSCREW,HH,3/8-16x0.75",GD8
54	0310-501	1	GUARD,BATTERY
55	8040-486	2	NUT,HEX,NYLOCK,3/8-16 UNC,ZN
56	8102-132	8	CAPSCREW,HH,5/16-18UNCx1.0 GD8
57	0300-546	1	CABLE,GROUND,ENGINE
58	0200-159	1	BRKT,MNT,AIR CLEANER
59	8051-272	21	WASHER,SPRING LOCK,3/8,ZN
60	8102-222	20	CAPSCREW,HH,3/8-16 UNCx1.0,GD8
61	8102-140	1	CAPSCREW,HH,5/16-18UNCx2.75,GD
62	0304-351	1	CHANNEL,TREAD,LOADER RC-30
63	0200-335	6	SPRING,TAILPIPE
64	0200-333	1	TAILPIPE,CENTER
65	2030-148	1	PIPE,EXHAUST,FLANGE END
66	2030-100	1	ASSY,PIPE,EXHAUST,3024cT
67	0201-745	1	HEATER,BLOCK,1000W
68	0201-746	1	CORD,HEATER,BLOCK
69	0200-561	1	SCREEN,FILTER,WATER
70	0200-313	1	INDICATOR,AIRCLEANER



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RC-60 ELECTRICAL SCHEMATIC

0200-493 UPDATED 10-28-05

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
OPERATION INTERLOCK CIRCUIT
START AID CIRCUIT
DASHED LINES ARE ATTACHMENT/OPTION

WIRE DESCRIPTION

WIRE NUMBERS	WIRE COLOR	DESCRIPTION
		POWER DISTRIBUTION CIRCUITS
101	RD	BAT (+)
102	YL	ACCY BUS
103	BR	KEY SWITCH (+) RUN
104	BR	KEY SWITCH
105	WH	CONSOLE/ENG. SOLENOID
106	BU	AUX. HYD. PWR
109	LBL	ALT. OUTPUT
111	GN	AUX. SW. PWR
112	LBL	AUX. HYD. SOL.
113	PK	AUX. HYD. CON. #1
114	WH	AUX. HYD. CON. #2
120	YL	AUX HYD. FAIL ON LOSS
121	GR	HEATER FAN ON PWR
122	OR	HEATER FAN ON PWR SW
124	GN	AUX. HYD. MIN. LIGHTS ON
508	YL	MAIN PWR. RLY. COIL
509	GY	ALT. PWR. FROM ENGINE
510	PU	GRL SW. TO GLOW PLUG RLY.
511	BU	ENGINE ALARM SENSOR
551	GY	HORN
561	GR	WIPER PWR
562	WH	LIGHTS
603	PK	BEACON
		ENGINE SENSING CIRCUITS
113	PU	MAIN PWR. RLY. OUT
117	YL	AUX. HYD. RLY. OUT #1
118	OR	AUX. HYD. RLY. OUT #2
123	WH	HORN BUTTON TO HORN

WIRE NUMBERS	WIRE COLOR	DESCRIPTION
		CONTROL CIRCUITS
140	BU	FROM AUX. SW.
141	PK	FROM BEACON SW.
143	GY	FROM WIPER SW.
144	GRL	FROM WIPER SW.
504	WH	STARTER RLY COIL
506	GR	STARTER RLY. COIL TO GRL SW.
576	GR	GLOW PLUGS RLY. TO GLOW PLUGS
578	WH	ENGINE
579	BK	ENGINE RLY. TO F.S.D.
		ALTERNATOR CIRCUITS
107	BU	BACKUP ALARM SENSER OUT
		IGNITION CIRCUITS
620	WH	GLOW LAMP FRONT
621	PK	GLOW LAMP CENTER
		HOUR METER CIRCUITS
116	PK	ALT. RLY. TO HMP LIGHT
128	BU	GRL SW. TO GLOW PLUG LIGHT
		GROUND CIRCUITS
200	BK	MAIN CHASSIS
201	BK	ENGINE GROUND
207	BK	OIL PRESS. SENDER
211	BK	COOLANT TEMP. SENDER
209	BK	OIL TEMP SENDER
208	BK	FUEL LEVEL SENDER

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1. Product Safety

Chapter Overview

This chapter contains product safety information for the RC-60 Rubber Track Loader. Read this chapter and understand all safety messages and information messages before attempting to service the machine.

Safety Messages

Safety messages are provided in this document and on the machine. If these hazard warnings are not heeded, bodily injury or death could occur to you or other persons.

Hazards are identified by the Safety Alert Symbols **!DANGER! … . !WARNING!….!CAUTION!**.

The meaning of these safety alerts is as follows: **Attention! Become Alert! Your Safety is Involved.**

The message that appears under a Safety Alert Symbol explains the hazard and can be either written or pictorially presented.

! DANGER !

This symbol is used to alert service personnel of an imminently hazardous situation that will result in serious injury or death.

! WARNING !

This symbol is used to alert service personnel of a potentially hazardous situation that could result in serious injury or death.

! CAUTION !

This symbol is used to alert service personnel of an unsafe practice that could result in injury.

Information Messages

Information messages are provided in this document and on the machine. These messages are identified by the labels **NOTICE….Note**.

NOTICE

This label is used to alert service personnel to the possibility of damaging the equipment.

Note: This label is used to provide important additional information, comments, explanations or amplification of the accompanying subject matter.

The person servicing the Rubber Track Loader may be unfamiliar with many of the systems on the machine. This makes it important to use caution when performing service work. Knowledge of the system and/or components is important before the removal or disassembly of any component.

It is not possible to anticipate every circumstance that might involve a potential hazard. The safety messages in this document and on the product are, therefore, not all-inclusive. If you use a tool, procedure, work method or operating technique that is not specifically recommended by the manufacturer, you must satisfy yourself that it is safe for you and for others. You should also ensure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

Basic Precautions

! WARNING !

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product until you have read and understood the operation, lubrication, maintenance and repair information.

Following is a list of basic precautions that should always be observed.

Safety Signs

Read and understand all "Safety" signs on the product before operating, lubricating or repairing this product. Replace any damaged, illegible or missing safety plates, signs or decals.

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