2. Technical Specifications & Service Tools

SC-50 Specifications

Engine
- Model: Perkins 404C-22
- Displacement: 2.2 liter
- Gross horsepower: 50 hp (37.3 kW)
- Torque: 105 lb-ft. (143 Nm)
- Idle rpm: 2800 (high idle); 1175 (low idle)
- Average water /thermostat temperature: 190°F, 87.8°C

Transmission
- Model: AA20VG45T tandem (Rexroth)

Drive Pumps
- Displacement: 2.349 in3/rev (38.5 cc/rev)
- Relief pressure: 5500 psi (380 bar)
- Flow: 28 gpm (106 lpm) @ 2800 rpm (high idle)

Charge Pump
- Displacement: 1.098 in3/rev (18 cc/rev)
- Relief pressure: 400-450 psi

Drive Motors
- Model: Rexroth MCR 5 (2-speed)
- Displacement: 50 in3/rev (820 cc/rev)

Steering Control (valve)
- Model: Husco AR1652

Motion Control (forward/reverse)
- Model: Rexroth 2TH6RP06

Auxiliary Pump
- Make: Haladex Barnes Hydraulics
- Type: Gear pump
- Displacement: 1.343 in3/rev (22 cc/rev)
- Max Flow: 16.3 gpm (61.7 lpm) @ 2800 rpm
- Relief pressure: 3000 psi (20,680 kPa)
- Cooling/filtering: 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.

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

Oil Cooler
- Operating pressure: 150 psi (1034 kPa)
- Bypass relief pressure: 80 psi (689 kPa)
- Hot oil sending unit: 225°F (107.2°C)
- Avg. oil operating temp. 50-60°F above ambient. (High flow application 80°F above ambient.)

Critical Torque Specs
- Transmission Mounting Bolts
  - -- 85 ft-lb. w/Blue Loctite
- Drive Sprocket Drive Tooth Bolts
  - -- 88 ft-lb. -Dry
- 10” Idler Wheel Retaining Nut
  - -- 111 ft-lb. - Dry
- 14” Idler Wheel Retaining Nut
  - -- 111 ft-lb. -Dry
- Drive Sprocket Lug Nut
  - -- 129 ft-lb. -Dry
- Drive Motor Mounting Bolts
  - -- 177 ft-lbs. -Dry

Service Tools

Listed below are common service tools which are identified and utilized in the service procedures described in this manual. Use tools recommended by ASV whenever possible to reduce risk of injury and or machine damage during service.

- ASV Jack Stands (2) (ASV P/N: 0402-900) (you will need crossmembers (2) P/N: 0403-472)
- Heavy Duty Hydraulic Jack (5-ton rating)
- Test Gauge Kit (ASV P/N: 0402-935)
- Ratchet Strap
- Long Pry Bar(s)
- ASV Service Cart (0402-871)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Maintenance Schedule

Maintenance Item	Service required	Interval	Notes	Service Capacity
Grease fittings	Lubricate	Daily	(Torsion Axle Pivots)	
Fluid levels	Check	Daily	Adjust levels as necessary.	
Fan belt tension	Check	Daily	Adjust tension as necessary.	
Fan belt condition	Inspect	Daily	Replace if worn or damaged.	
Water separator	Drain	Daily		
Track condition	Inspect	Daily	Replace if severely damaged.	
Track tension	Inspect	Daily	Adjust tension as necessary.	
Air cleaners	Inspect	Daily	Replace if damaged or heavily soiled.	
Radiator/oil cooler fins	Inspect	Daily	Clean often (as necessary).	
Undercarriages	Inspect	Daily	Clean often (as necessary).	
Engine compartment	Inspect	Daily	Clean often (as necessary).	
Drive sprocket rollers	Inspect	50 hr.	Replace if damaged or worn. (35% min.)	
Engine oil and filter	Replace	12 Mo. or 500 hr.	Harsh conditions (6 Mo./250 hr. interval)	11.2 qt.
Hydraulic filter	Replace	250 hr.	Located in hydraulic tank (access in bed)	
Hydraulic oil	Replace	500 hr.	Service refill capacity only.	5.125 gal.
Fuel filter	Replace	500 hr.	Replace fuel filter element.	
Radiator coolant	Replace	3000 hr.	Coolant with SCA additive required.	1.75 gal

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

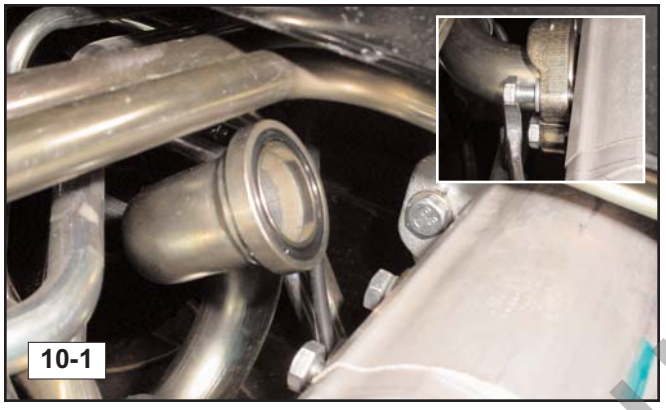
1. Relax any hydraulic actuators to relieve pressure within the hydraulic system.

2. Turn the ignition switch to the **OFF** position and remove the key to avoid accidental start.

3. Drain the hydraulic fluid. Refer to page 4-8 for the hydraulic fluid and filter change procedure.

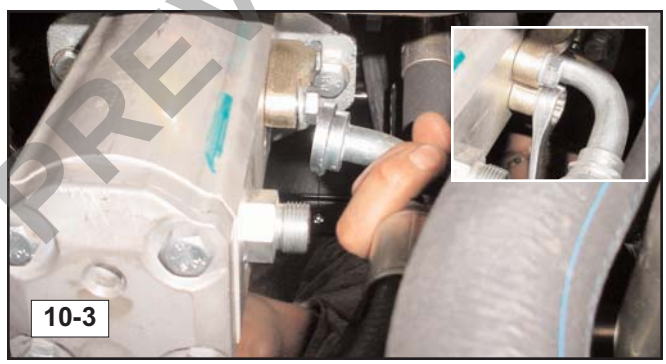
4. Remove the cargo bed according to the procedure on page 7-3 of this manual.

5. Remove the belly pan beneath the center of the machine.

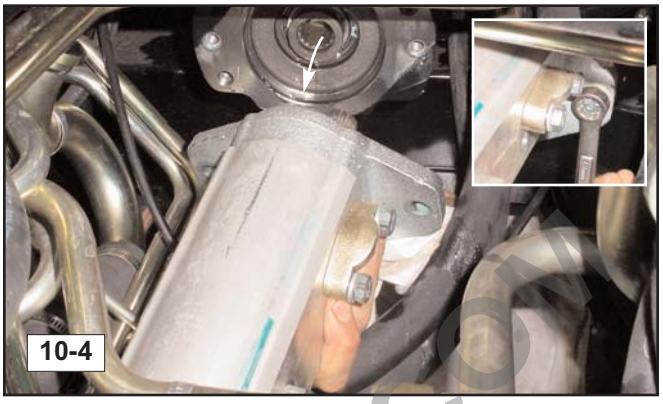


6. Disconnect the inlet tube from the charge/auxiliary pump as shown. (fig. 10-1)





7. Disconnect the outlet hoses from the auxiliary and charge pumps as shown. (fig. 10-2, 10-3)



8. Remove the bolts securing the charge/auxiliary pump to the drive pump, then remove it through the bottom of the machine as shown. (fig. 10-4)

Installation

1. To install the charge/auxiliary pump, reverse the removal procedure.

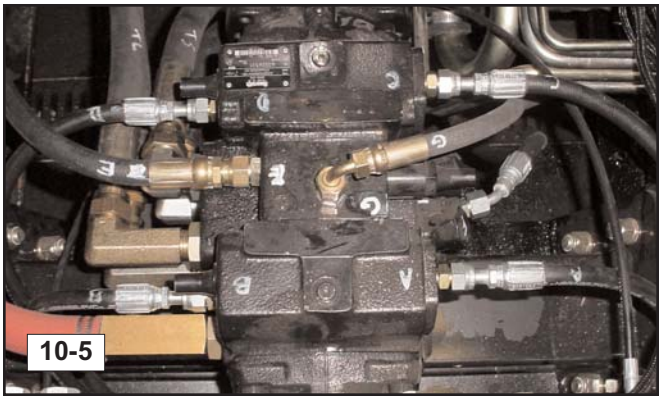
Tandem (Drive) Pump

Removal

Required Tools
Combination Wrench
Socket Wrench
Screwdriver (blade type)

1. Remove the engine cover and unfasten and move the heater (if equipped) from its brackets to access the drive pump.

2. Remove the charge/auxiliary pump as described on page 10-1 of this manual.



3. Label the hoses and pump housing as shown or with your own method to ensure that all hoses are connected to the proper ports during reinstallation. (fig. 10-5)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

PART NUMBER 2051-908 1 OF 1

ITEM	QTY	PART NO.	NAME
X	X	X	X

STEERING CONTROLER

FOOT PEDAL

OPTIONAL BACK-UP ALARM SWITCH

VEHICLE MOTION PRESSURE SWITCH

STEERING SHUTTLE BLOCK

PILOT GEN. BLOCK

TWO SPEED SYMBOL

10 BAR SPRINGS

Ø1.7 ORIFICE

25 BAR (1.9 SHIM)

FLUSHING VALVE

DRIVE MOTOR

TRANSMISSION

AUX PUMP

STRAINER

OPTIONAL HYDRAULIC PKG.

QC MANIFOLD FRNT/LFT

QC MANIFOLD FRNT/RHT

QC MANIFOLD REAR

FILTER

COOLER

COOLER BYPASS

AUXILERY VALVE

AUXILERY MANIFOLD

2-SPEED/BRAKE MANIFOLD

DRIVE MOTOR

TWO SPEED SYMBOL

10 BAR SPRINGS

Ø1.7 ORIFICE

25 BAR (1.9 SHIM)

FLUSHING VALVE

SCOUT HYDRAULIC SCHEMATIC

2051-908 04JAN07

REV	DESCRIPTION	DATE	ECN
A	INITIAL RELEASE	01/04/07	TAS

DRAWN BY T.STEINBRECHER DATE 04JAN07

MATERIAL

MATERIAL FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS W/O TOL ARE BASIC

BASIC TOLERANCE .00 : .03 .000 : .010 ANGLE : +/-0.5°

THE INFORMATION HEREON IS THE PROPERTY OF ASV, INC. WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS, AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED, IS PROHIBITED

PART NAME SCHEMATIC, HYDRAULIC, SCOUT

PART NUMBER 2051-908 1 OF 1 SIZE SCALE NTS

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

ENGINEERING PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	2051-693	1	AUXILIARY HARNESS B
2	2051-695	1	MAIN HARNESS A
3	2051-744	1	REAR LIGHT HARNESS D
4	2051-984	1	REAR CAB HARNESS (CAB OPTION)
5	2051-740	1	HORN HARNESS
6	2051-743	1	FRONT LIGHTS HARNESS C
7	2051-985	1	WIPER HARNESS (CAB OPTION)
8	2052-019	1	AUX TEST HARNESS
9	2051-986	1	REAR LIGHT ASSEMBLY
10	2051-987	1	WIPER MOTOR ASSEMBLY
11	2052-020	1	PCB TEST HARNESS

LEGEND

- STANDARD EQUIPMENT
- OPTIONAL EQUIPMENT
- CONNECTION POINT
- GROUND

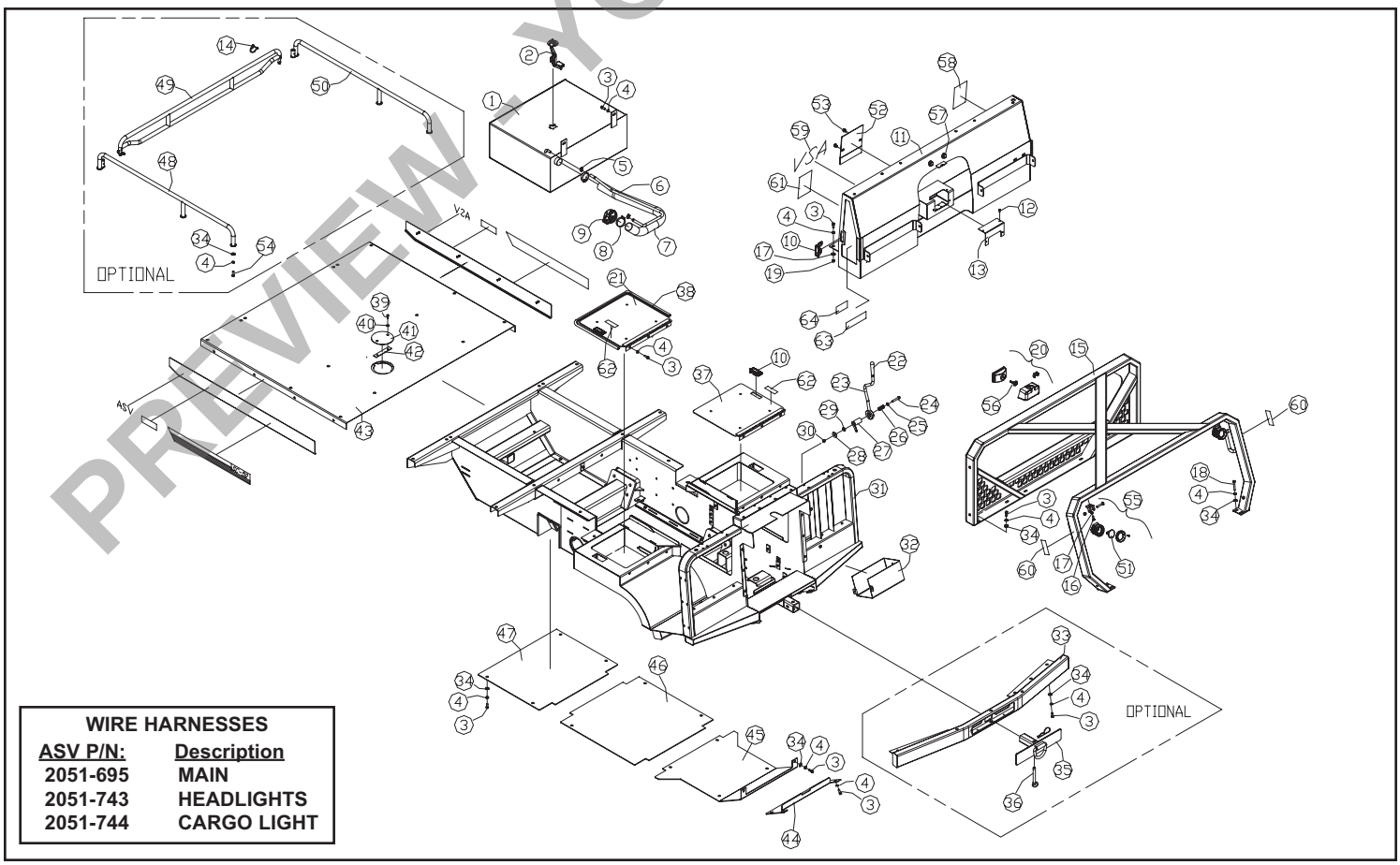
DRAWN BY: MINSTAR: JOSHUA D. HOLM		DATE: 05/08/07	
ASV	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS ARE TOL ARE NONE	ANGULAR TOLERANCE: .XX = ± .XXX = ± ANGLE =	
PART NAME: SC-50 ELECTRICAL SCHEMATIC			
PART NUMBER: 2051-909 1 OF 1		SIZE: SCALE:	

REV	DESCRIPTION	DATE	ECN
2			
1			

CHASSIS/R.O.P.S. ASSEMBLY (Serial #: CFA 00101-Current)

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
1	2051-379	1	WLMT TANK FUEL
2	0304-600	1	ASSY,UNIT,SENDING,FUEL
3	8102-222	44	CAPSCREW,HH,3/8-16 UNCx1.0,GD8
4	8051-272	52	WASHER,SPRING LOCK,3/8,ZN
5	0300-732	2	CLAMP,HOSE,#4
6	2051-388	1	HOSE VENT FUEL
7	2051-387	1	HOSE FILLER GAS
8	0300-686	2	CLAMP,HOSE,2.0,#32
9	2045-407	1	CAP FUEL GREEN W/ASV LOGO
10	2051-644	4	LATCH SEAT
11	2051-289	1	WLMT CONSOLE REAR MAIN
12	8005-517	4	CAPSCREW,SOC HD,1/4-20 UNCx.50
13	2051-319	1	COVER HOUSING QC REAR
14	2051-906	2	PIN U 98416A011
15	2051-845	1	WLMT ROPS
16	8102-130	4	CAPSCREW,HH 5/16-18x3/4,GR8
17	8051-242	18	WASHER,SPRING LOCK,5/16,ZN
18	8102-229	4	CAPSCREW,HH 3/8-16UNCx2.5,GD8
19	8040-426	17	NUT,HEX,NYLOCK,5/16-18 UNC,ZN
20	2051-980	1	LIGHT,REAR
21	2051-646	1	WLMT SEAT PLATE RH
22	2051-553	1	HANDLE THROTTLE 62385K67
23	2051-550	1	WLMT LEVER THROTTLE
24	8102-230	1	CAPSCREW,HH 3/8-16UNCx2.75 GD8
25	8050-277	1	WASHER,WROUGHT,3/8,SAE,ZN
26	2045-662	1	SPRING 2.0" x 1/2" ID 1140 LBF
27	2051-545	1	WLMT BASE THROTTLE
28	0300-980	1	WASHER,1.447 x .406 x .125
29	2045-678	1	WASHER LEATHER
30	8040-486	1	NUT,HEX,NYLOCK,3/8-16 UNC,ZN
31	2051-240	1	WLMT CHASSIS
32	2051-583	1	COVER PEDAL FOOT HYD
33	2051-322	1	WLMT BUMPER FRONT
34	8050-282	30	WASHER,WROUGHT,3/8,STD,ZN
35	2051-541	1	WLMT COVER HITCH FRONT
36	2051-826	1	PIN HITCH 5/8 x 4.00" W/ CLIP
37	2051-441	1	WLMT SEAT PLATE LH
38	2051-927	2	SEAL, SEAT
39	0308-193	2	BOLT,BUTTONHEAD,1/4 x 20 x 1.0
40	8050-222	2	WASHER,WROUGHT,1/4,STD,ZN

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
41	2051-751	1	PANEL ACCESS
42	2051-752	1	WLMT CLAMP COVER ACCESS BED
43	2051-340	1	FLATBED MAIN
44	2051-452	1	PLATE SKID 1
45	2051-454	1	PLATE SKID 2
46	2051-456	1	PLATE SKID 3
47	2051-458	1	PLATE SKID 4
48	2051-896	1	WLMT RAIL RH
49	2051-901	1	WLMT RAIL CENTER
50	2051-895	1	WLMT RAIL LH
51	2045-756	2	LIGHT 35W W/BEZEL
52	2051-860	1	WLMT PLATE QC COVER
53	2051-862	2	KNOB PANEL ACCESS
54	8102-224	6	CAPSCREW,HH,3/8-16UNCx1.25,GD8
55	2045-733	2	ASSY LIGHT SINGLE
56	0304-475	1	BULB,HEADLIGHT
57	2045-414	2	OUTLET,POWER
58	2051-699	1	DECAL WARNING NO RIDERS
59	2051-882	1	DECAL ASV LOGO WHITE 24" BK BORDER
60	2051-684	2	DECAL WARNING ROPS
61	2051-700	1	DECAL CAUTION LOAD MANAGEMENT
62	2051-686	2	DECAL WARNING CLOSE SEAT LATCH
63	2051-687	1	DECAL HYD OIL FILL / CHECK
64	2051-685	1	DECAL DIESEL FUEL ONLY



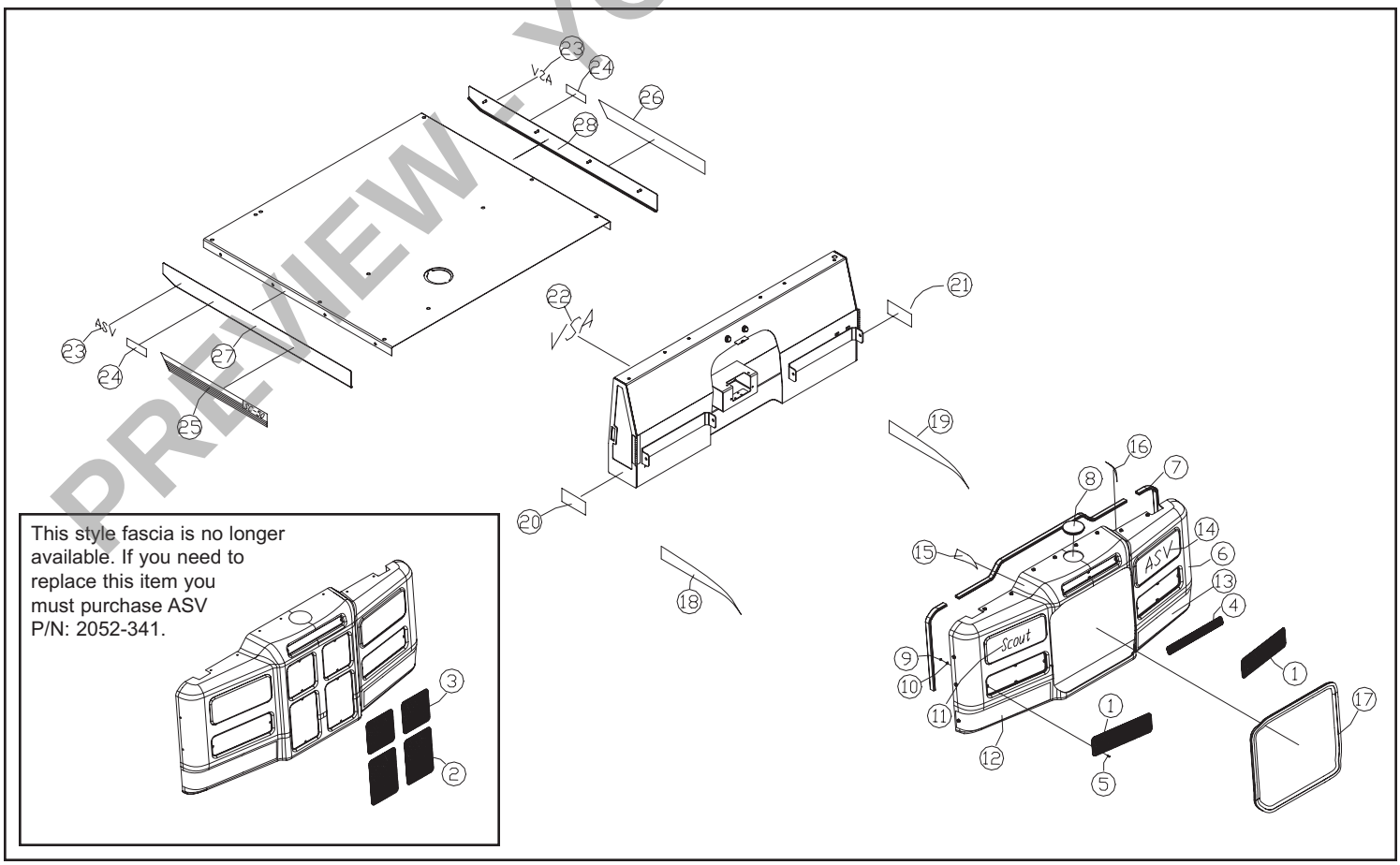
WIRE HARNESSES

ASV P/N:	Description
2051-695	MAIN
2051-743	HEADLIGHTS
2051-744	CARGO LIGHT

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

STANDARD CAB FASCIA (Serial #: CFA 00101-Current)

REF. NO.	PART NUMBER	QTY.	DESCRIPTION
1	2051-741	2	WLMT SCREEN INTAKE LARGE
2	2051-737	2	WLMT SCREEN EXHAUST LARGE
3	2051-735	2	WLMT SCREEN EXHAUST SMALL
4	2051-739	1	WLMT SCREEN INTAKE SMALL
5	2051-557	14	SCREW #8 SELF TAPPING
6	2051-166	1	SHROUD FRONT
7	2051-474	1	TRIM H-CHANNEL
8	2051-690	1	GROMMET BLIND
9	8041-801	14	NUT,HEX,NYLOCK, 6-32
10	0302-965	14	WASHER,RIVET,#7
11	2051-874	1	DECAL SCOUT FRONT WHITE
12	2051-875	1	DECAL STRIPE RH FRONT
13	2051-877	1	DECAL STRIPE LH FRONT
14	2051-876	1	DECAL ASV LOGO BK 11"
15	2051-881	1	DECAL SM SWOOSH RH FRONT
16	2051-883	1	DECAL SM SWOOSH LH FRONT
17	2052-288	1	SEAL FRONT SHROUD
18	2051-873	1	DECAL SWOOSH RH
19	2051-878	1	DECAL SWOOSH LH
20	2051-872	1	DECAL STRIPE RH MIDDLE
21	2051-880	1	DECAL STRIPE LH MIDDLE
22	2051-882	1	DECAL ASV LOGO WHITE 24" BK BORDER
23	2051-870	2	DECAL ASV LOGO BK 9"
24	2045-467	2	DECAL WARNING TRACKS
25	2051-871	1	DECAL SC50 STRIPE RH REAR
26	2051-879	1	DECAL SC50 STRIPE LH REAR
27	2051-747	1	WLMT PLATE SIDE BED RH
28	2051-746	1	WLMT PLATE SIDE BED LH



This style fascia is no longer available. If you need to replace this item you must purchase ASV P/N: 2052-341.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Table of Contents

1. Product Safety
- Chapter Overview 1-1
- Safety Messages 1-1
- Information Messages 1-1
- Basic Precautions 1-1
  - Safety Labels 1-1
  - Protective Equipment 1-2
  - Entering and Exiting 1-2
  - Lifting 1-2
  - Hot Fluids and Components 1-2
  - Corrosion Inhibitor 1-2
  - Batteries 1-2
  - Pressurized Items 1-2
- Repair 1-3
- Work Tools 1-3
- Asbestos Information 1-4
- Machine Labels and Decals 1-4
  - Product Identification Number 1-4
  - Engine Serial Number 1-4
  - Machine Label and Decal Examples 1-5

2. Technical Specifications
- Specifications (SC-50) 2-1
  - Engine 2-1
  - Transmission 2-1
    - Drive Pumps 2-1
    - Charge Pump 2-1
- Drive Motors 2-1
- Steering Control (valve) 2-1
- Motion Control (forward/reverse) 2-1
- Auxiliary Pump 2-1
- Auxiliary Hydraulic Control Valve 2-1
- Oil Cooler 2-1
- Critical Torque Specifications 2-1
- Service Tools 2-1

3. Circuit Diagrams
- Chapter Overview 3-1
- Hydraulic Charge Circuit 3-1
- Hydraulic Auxiliary Circuit 3-2
- Hydraulic Drive Circuit 3-3
- Steering Control Valve 3-4
- Auxiliary Control Block 3-5
- Brake/2-speed Control Block 3-6
- Pilot Generation Block 3-7
- Shuttle Block 3-8
- Directional Control Valve 3-9

4. Maintenance
- Chapter Overview 4-1
- Personal Safety 4-1
- Dump Box Brace 4-1
- Jacking Procedure 4-2
- Radiator/Oil Cooler (cleaning) 4-2
- Engine & Chassis (cleaning) 4-2
- Maintenance Schedule 4-3
- Air Cleaner 4-4
- Fuel Filter 4-5
- Water Separator 4-5
- Fuse Panel 4-5
- Accessory Belts 4-5
- Engine Oil/Filter Change 4-6
- Engine Oil Specifications 4-7
- Engine Oil Level Check 4-7
- Hydraulic Fluid/Filter Change 4-8
- Undercarriages 4-9
- Grease Fittings 4-9
- Track Tension 4-9
- Track Removal 4-10
- Track Installation 4-12
- Drive Sprocket Rollers 4-14

5. Machine Controls and Instrumentation
- Chapter Overview 5-1
- Machine Controls 5-1
  - Steering Control 5-1
  - Directional Speed Control 5-1
  - Throttle 5-1
  - Attachment Control 5-1
- Instrumentation 5-1
- Switches 5-2
  - Switch Panels 5-2

6. Operator Enclosure
- Chapter Overview 6-1
- Personal Safety 6-1
- Machine Preparation 6-1
- Removal & Installation 6-1
  - Seat 6-1
  - Seat Switch 6-2
  - Switches 6-2
  - Front Fascia 6-3
  - Gauges & Hour Meter 6-3
  - Engine Cover 6-4
  - Steering Wheel & Mechanism 6-4
  - Dash Panel 6-6

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. Product Safety

Chapter Overview

This chapter contains product safety information for the SC-50 Utility Vehicle. Read and understand all product safety information before attempting to service any Rubber Track Utility Vehicle.

Safety Messages

Safety messages are included in this document to serve as warnings of potentially dangerous conditions. Failure to follow their instructions could result in injury or death.

These messages are identified by the headings:
!DANGER!….!WARNING!….!CAUTION!.

The messages are to be understood as:
Attention! Your Safety Is Involved!

The information that follows each heading describes the potential hazard and the precautions necessary to protect yourself and others from injury. Instructions may be 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 also included in this document to supplement the instructions and photographs in each chapter. These messages are identified by the labels **NOTICE** or **Note**.

NOTICE

This label is used to alert service personnel of a situation that could lead to equipment or machine damage.

Note: This label is used to provide important additional information, further explanation, comments or to stress the importance of a topic.

The person(s) in charge of servicing a Rubber Track Utility Vehicle may be unfamiliar with many of the systems on the machine. This makes it especially important to use caution when performing service tasks. Familiarize yourself with the affected system(s) and components before attempting any type of maintenance or service.

It is not possible to anticipate every potential hazard. The safety messages included in this document and displayed on the machine are not all-inclusive. They are intended to make you aware of potential risks and encourage a safe approach to performing service work. If you use a tool, procedure, work method or operating technique that is not specifically recommended by ASV, you must satisfy yourself that it is safe for you and others. You must also ensure that the machine will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

Basic Precautions

!WARNING!

Improper or incomplete maintenance/repair of a Rubber Track Utility Vehicle can be dangerous and may result in machine damage, injury or even death.

Do not attempt to perform any type of repair or maintenance on a Rubber Track Utility Vehicle until you have read and fully understood this manual.

Refer to the Operator's manual for instructions regarding proper machine operation techniques before operating any Rubber Track Utility Vehicle.

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

Safety Labels

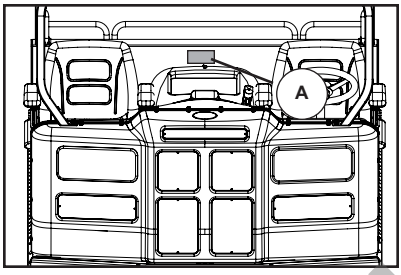
Safety labels are displayed in various places throughout the machine to serve as warnings of potentially dangerous conditions. Read and understand all "Safety" labels before attempting to operate, maintain or repair the machine. Replace any damaged, illegible or missing labels as necessary.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Serial Numbers

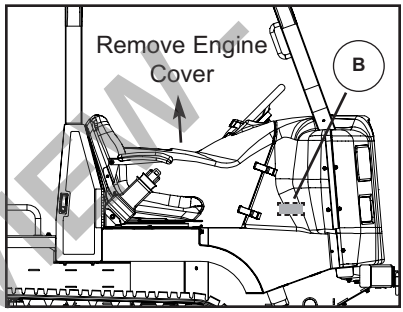
Product ID Number (A)

The machine PIN is located between the seats on the rear wall of the cab interior. This number must be provided when contacting your dealer regarding parts, service, warranty or accessories. Warranty claims will not be processed unless the machine PIN is provided.



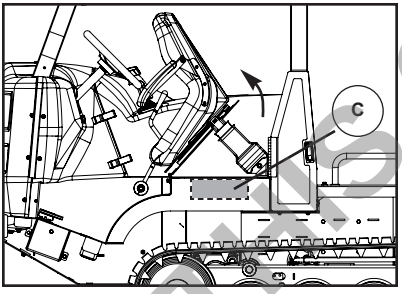
Engine Serial Number (B)

The engine serial number is located on the right side of the engine near the front, just above the injection pump.



Manual Storage (C)

The machine manuals are stored in the compartment located beneath the driver's seat.



REVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Repair

!WARNING!

Accidental machine starting can cause injury or even death to personnel working on a Rubber Track Utility Vehicle.

As a precaution, disconnect the battery cables from the battery terminals, tape the battery clamps and remove the key from the ignition switch prior to performing any service work on a Rubber Track Utility Vehicle.

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

1. Disconnect the battery and discharge any capacitor before beginning work on a machine. Attach a **Do Not Operate** tag in the cab to alert any operator that service is in progress.

2. If possible, make all repairs with the machine parked on a level, hard surface. Use blocks to prevent the machine from rolling while working on or under the machine.

3. Do not work on or under any machine that is supported only by a hydraulic jack or hoist. Always use some sort of mechanical support to ensure that the machine will not fall. ASV jack stands work well to support the machine while performing maintenance or repair work.

4. Make sure the work area around the machine is safe and make yourself aware of any hazardous conditions that may exist. If the engine needs to be started inside an enclosure, make sure that the engine's exhaust is properly vented.

5. Be sure all protective devices including guards and shields are properly installed and functioning correctly before beginning any service task. If a guard or shield must be removed to perform the repair work, use extra caution.

6. Always use the appropriate tools for the work to be performed. Tools should be in good condition and you should understand how to use them properly before performing any service work.

7. When replacing fasteners, use parts of equivalent grade and size. Do not use a lesser quality fastener if replacements are necessary.

8. Be prepared to stop an engine if it has been recently overhauled or the fuel system has been recently serviced. If the engine has not been assembled correctly, or if the fuel settings are not correct, the engine can possibly overspeed and cause bodily injury, death or property damage. Be prepared to shut off the fuel and air supply to the engine in order to stop the engine.

9. Be careful when removing cover plates. Gradually back off the last two bolts or nuts located on opposite sides of the cover. Then, pry the cover loose to relieve any spring or other pressure before removing the last two nuts or bolts completely.

10. Repairs requiring welding should be performed only by personnel adequately trained and knowledgeable in welding procedures and with the guidance of appropriate reference information. Determine the type of metal being welded and select the correct welding procedure and filler material to provide a weld that is as strong or stronger than the original weld.

11. Take precautions to avoid damaging wiring during removal and installation operations. Carefully route wires so that they will not contact sharp corners, objects or hot surfaces during operation.

12. When performing service that requires the dump box (if equipped) to be in the raised position, always utilize the dump box brace to mechanically support its weight.

13. Relieve hydraulic system pressure by relaxing all hydraulic actuators prior to attempting any hydraulic maintenance or repair.

14. Always tighten connections to the correct torque specification. Make sure that all shields, clamps and guards are installed correctly to avoid excessive heat, vibration or unwanted contact between parts during operation. Shields that protect exhaust components from oil spray in event of a line, tube or seal failure must be correctly installed.

15. Do not operate a machine if any rotating part is damaged or contacts other parts during operation. Any high speed rotating component that has been damaged or altered should be checked for balance before use. Make sure all protective devices, including guards and shields, are properly installed and functioning correctly before starting the engine or operating the machine.

Work Tools (Attachments)

Only use work tools that are recommended by ASV.

Make sure that all necessary guards and protective equipment are in place and functioning prior to operating any work tool.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

11. Engine

Chapter Overview

This chapter provides procedures for the removal and installation of the engine and associated components. If there is an issue that requires troubleshooting, refer to Chapter 15, Troubleshooting.

Personal Safety

!WARNING!

Improper or incomplete maintenance/repair of a Rubber Track Utility Vehicle can be dangerous and may result in machine damage, injury or even death.

Do not attempt to perform repair or maintenance on a Rubber Track Utility Vehicle until you have read and fully understood the information in this manual.

Refer to the Operation and Maintenance manual for instructions regarding proper machine operation techniques before operating any Rubber Track Utility Vehicle.

Machine Preparation

!WARNING!

Accidental machine starting can cause injury or even death to personnel working on a Rubber Track Utility Vehicle.

As a precaution, disconnect the battery cables from the battery terminals, tape the battery clamps and remove the key from the ignition switch prior to performing any service work on a Rubber Track Utility Vehicle.

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

Prior to performing any type of service work on a Rubber Track Utility Vehicle, read and understand Chapter 1 (Product Safety) for personal safety information.

Removal and Installation

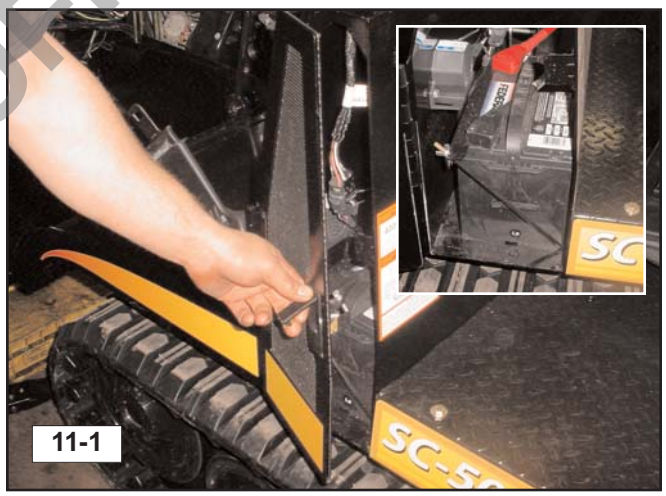
Removal and installation procedures are provided for the following engine related components.

- Battery
- Exhaust
- Air Cleaner Housing
- Engine

Note: Procedures are provided for only those engine associated components listed above. However, exploded parts diagrams exist in the SC-50 parts manuals to serve as visual aids in the assembly and disassembly of other system components.

Battery

Removal



1. Open the access door to the rear console on the driver's side of the machine. (fig. 11-1)



2. Disconnect the battery terminals from the battery and lay them aside. (fig. 11-2)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 204 pages

The full manual includes:

- All 204 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

ASV SC-50 Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual