

# NON-REPAIRABLE & LIMITED REPAIR PRODUCTS

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## REPAIR CATEGORY OVERVIEW

All Raven products are grouped into the following three repair categories. Repair categories apply to Raven Repair Centers and Raven Authorized Repair Center partners.

### FULL REPAIR

Full repair services are offered. In some instances, due to the overall cost of the repair, items may be deemed uneconomical to repair.

### LIMITED REPAIR

These products and part numbers have limited repair capability due limited replacement parts and possibly other factors. Raven will not guarantee items can be repaired if returned. If the item cannot be repaired, the customer has the option of either having the item returned at the customer’s expense, or having the item scrapped by Raven.

### NON-REPAIRABLE

No repair services are offered. Items should not be returned for repair.



## FIELD COMPUTER REPAIR STATUS GUIDE

The following photos and associated text serve as a guide to assist with identifying field computers and repair service category.

### CRUIZER

Repair Category can be identified by the type of on/off power switch. Those with a push button power switch will have limited repair capabilities.



Non-Repairable  
Rocker switch



Limited Repair  
Push button

### ENVIZIO PRO

Looking through the vent openings on the top of the Envizio Pro, the photos below provide direction on identifying first and second-generation units. The part number and revision can assist in determining the Repair Category, but the actual build hardware will be the final determination, as shown in the photos.

#### First Generation



Non-Repairable  
Heat Sink can be seen  
through vent openings

#### Second Generation



Limited Repair  
Flat metal can be seen  
through vent openings.

## VIPER PRO

Looking through the vent openings on the top-right side of the Viper Pro, the photos below provide direction on identifying first and second-generation units. The part number and revision can assist in determining the Repair Category, but the actual build hardware will be the final determination, as shown in the photos.

### First Generation



Non-Repairable  
Heat Sink can be seen  
through vent openings.

### Second Generation



Limited Repair  
Flat metal can be seen  
through vent openings.

**NON-REPAIRABLE PRODUCTS LIST**

PART NUMBER	DESCRIPTION
All Part Numbers	VALVES: ON/OFF OR CONTROL - RECTANGULAR BLUE/BLACK COVER
All Part Numbers	SCS/DCS CONTROL SERIAL PORT UPDATE
All Part Numbers	CRUIZER (Rocker Power Switch)
10630130002	G2 AUTOBOOM CONTROLLER
10630159470	FLOWMETER RFM 5
10630159571	RFM55 FLOWMETER
10630159574	FLOWMETER RFM 200 (CAST IRON)
10630159603	SCS 500 CONSOLE
10630159614	SCS700
10630159665	PUMP CAL ASY HIGH VOL JB
10630159665S	CALIBRATED PUMP SS HD JB PUMP
10630159748	SCS710
10630159751	FLOWMETER RFM 200 POLY
10630159769	CONTROL ASSEMBLY SCS 430 MELROE
10630159780	PUMP ASY INJECTION
10630159805	SERVO VALVE
10630159835	RADAR ASSEMBLY
10630159855	MOTOR/PUMP ASY HIGH VOLUME
10630159858	PUMP & MOTOR ASY ULTRA LOW
10630159865	SCS 560 CONSOLE
10630159875	PUMP/MOTOR SHIPPING UL VOLUME
10630159876	PUMP/MOTOR SHIPPING HI VOLUME
10630159897	PUMP ASY RAVEN
10630159898	PUMP CALIBRATED RAVEN
10630159903	SCS 750 CONSOLE
10630159942	SCS 550 CONSOLE
10630159966	RFM400 - FLOWMETER, 4" POLY
10630159987	PUMP/MOTOR RAVEN HIVOL
10630159990	PUMP/MOTOR SS HEAD JB HIGHVOL
10630159991	PUMP/MOTOR SS HD JB LOW
10630159994	PUMP/MOTOR SHIPPING HIVOL
10630159995	PUMP/MOTOR SHIP ULTRALO
10630171017	PUMP/MOTOR LO REV PL
10630171018	PUMP/MOTOR HI REV PLTF
10630171066	METER ASY FLOW RFM-100
10630171130	PUMP ASY RII SPLIT MAN
10630171132	PUMP CAL SPLIT MANIF
10630171140	PUMP/MOT LO W/SPLIT MAN
10630171248	PUMP/MOTOR LOR*AL HIVOL ASY
10630171344	SCS 700 CONSOLE
10630171464	SCS710
10630171468	PUMP/MOTER HIVOL GEAR TOOTH
10630171503	28V SATLOC SPRAY CONTROLLER
10630171623	FLOW METER 100POLY INC PULSE
10630171641	FLOWMETER RFM 100 SATLOC
10630171687	SCS 760 CONSOLE

**NON-REPAIRABLE PRODUCTS LIST**

PART NUMBER	DESCRIPTION
10630171692	FLOW METER RFM-200/HI PULSE
10630171711	DCS 700 CONSOLE
10630171733	SCS 760
10630171736	DCS 710 CONSOLE
10630171758	CONSOLE ANTI-ICE MONROE
10630171824	FLOWMETER 12VOLT DP RFM 100
10630171826	FLOWMETER 12 VOLT RFM-200 40
10630171837	SCS 760 CONSOLE
10630171848	RFM-400 12V 4" FLOWMETER
10630171913	CONSOLE FMC CAPTURE
10630171916	PUMP/MOTOR ASSY POUNCE SYSTEM
10630171921	INVICTA II 310 RECEIVER
10630171923	INVICTA 210
10630171924	ANTENNA MBA2
10630171952	RGL 500 LIGHTBAR (OBSOLETE METAL CASE AND BOARD)
10630171962	FLOWMETER RFM200 33 PULSE
10630171967	PUMP CAL. FIXED DISPLACEMENT
10630171968	PUMP FIXED DISPLACEMENT
10630171990	MAGMETER ASSEMBLY 4 INCH I.D.
10630171991	MAGMETER ASSEMBLY 6 INCH I.D.
10630172066	MAGMETER ASSEMBLY 3 INCH I.D.
10630172101	PATCH ANTENNA
10630172115	RGL500T LIGHTBAR
10630172116	INVICTA 110 RECEIVER
10630172123	FLOWMETER, FLOW MAX 220
10630172143	RADAR ASSEMBLY
10630172216	VIPER II (REV A AND B)
10630172270	PUMP/MOTOR HV
10630172280	INVICTA II 115 RECEIVER
10630172301	PUMP CALIBRATED SS RAVEN
10630172302	PUMP ASSY SS RAVEN
10630172304	PUMP/MOTOR ASSY DIRECT DRIVE
10630172352	PUMP ENCL UL VOL SIDEKICK INJ
10630172353	PUMP ADJ STROKE SIDEKICK
10630172354	PUMP CAL ADJ STROKE SIDEKICK
10630172355	PUMP/MOTOR UL VOL SIDEKICK
10630172366	RPR 100S
10630172373	NODE CAN CONTROL SINGLE PRODCT
10630172379	CONSOLE VIPER CASE IH
10630172382	FLOWMETER RFM 100 HP DTM
10630172383	FLOWMETER RFM200HP W/RSTR DTM
10630172384	FLOWMETER RFM 200 DTM
10630172385	NODE CAN CONTROL SINGLE PRODUCT 12V FLOW
10630172386	NODE CAN CONTROL SINGLE PROD 12V FLOW HIGH CURRENT PWM
10630172396	RPR 100S AG LEADER
10630172407	FLOWMETER RFM-200 PACKARD

<b>NON-REPAIRABLE PRODUCTS LIST</b>	
<b>PART NUMBER</b>	<b>DESCRIPTION</b>
10630172428	PUMP MOTOR ASSY 3/4IN INJ PUMP
10630172454	CONTROLLER ASSY SMARTRAX (SHORT BOX)
10630172460	NODE CAN CONTROL SINGLE PROD CASE IH
10630172475	PUMP/MOTOR ASSY ULTRA LOVOL
10630172483	CONSOLE SIDEKICK RATIO RATE
10630172500	MOTOR/TACH DD 3/4IN PUMP
10630172510	PUMP/MOTOR 1-40 OZ/MIN
10630172517	BOOM CONTROL 7BOOM PARALLEL BUS
10630172527	MOTOR/TACH ASSEMBLY
10630172547	RPR 410
10630172590	RPR 100G
10630172598	ENVIZIO
10630172604	PUMP/MOTOR 3/4" INJ PUMP REMAN
10630172608	RPR 100G AG LEADER
10630172637	INVICTA 210
10630172675	CONTROLLER SMARTRAX INV MOUNT (SHORT BOX)
10630172676B	PUMP MOTOR ASSY.5-40OZ/MIN JD
10630172682	MAGMETER 200
10630172762	QUICKTRAX MDU (MECHANICAL DRIVE UNIT)
10630172789	ENVIZIO PLUS
10630172790	CONVERTER
10630172793	CONVERTER
10630172821	RPR RECEIVER 310
10630172826	CONSOLE VIPER AGCO FINAL ASSY
10630172828	SMARTBOOM CNTRL BOX
10630172865	CONSOLE ENVIZIO PRO W/GPS 2USB
10630172879	CONSOLE VPRO – REV C AND BELOW
10630172896	NODE CAN CONTROL SINGLE PROD 12 V FLOW
10630172921	MTR/TACH ASSY 3/4IN LV PUMP JD
10630172926	CONSOLE VPRO AGCO – REV C AND BELOW
10630172927	CONSOLE VIPER PRO CASE IH
10630172951	CONSOLE VIPER PRO AUTOFARM
10630172959	CONSOLE ENVIZIO PRO W/GPS 4 USB
10630172970	BASE STATION MOBILE AUTOFARM
10630172974	CONSOLE ENVIZIO PRO E-DIF
10630172990	NODE CAN CONTROL SINGLE PROD HIGH CURRENT CASE IH
10630173014	CONSOLE ENVIZIO PRO AUTOFARM, 2USB
10630173018	CONSOLE ENVIZIO PRO L-DIF, 2USB
10630173027	MAGMETER ASSEMBLY 6 INCH I.D.
10630173028	MAGMETER ASSEMBLY 4 INCH I.D.
10630173029	MAGMETER ASSEMBLY 3 INCH I.D.
10630173031	NODE CAN CNTRL SMRTRX 3D
10630173042	NODE CAN CONTROL SMARTRAX
10630173051	SMARTSTEER MDU
10630173053	CNSL VPRO SEED HAWK – REV C AND BELOW
10630173061	VIPER PRO CASE IH

## NON-REPAIRABLE PRODUCTS LIST

PART NUMBER	DESCRIPTION
10630173074	NODE SMARTSTEER 3D
10630173075	NODE SMARTSTEER
10630173145	NODE CAN CONTROL SMARTRAX BUHLER
10630173151	VIPER PRO PARADYME
10630173315	CONSOLE EPRO II VERSATILE
10630173322	NODE UATI
10630173349	NODE ET SINGLE PRODUCT CONTROL
10630173350	NODE ET SMARTRAX 3D
10630173352	NODE AGTRON BLOCKAGE
10630173352	NODE AGTRON BLOCKAGE
10630173359	FLOWMETER AGCO RFM 100
10630173360	FLOWMETER AGCO RFM 200
10630173369	FLOWMETER AGCO RFM 200 (CAST IRON)
10630173370	CONSOLE VIPER PRO ET
10630173381	NODE CAN CNTRL SNGL PRODUCT ET
10630173400	RFM200 W/O THRDS AGCO
10630173661	RFM 100 HP DTM LESS HDWE
10633001005	NODE CAN CNTRL PLNTR AUXILIARY
10633001006	NODE PLNTR/SDR AUX CNTRL
10633001009	NODE CAN CNTRL DRLL OMNSD LVL1
11170196001	QUICKTRAX KIT
11170196002	QUICKTRAX KIT
11170196003	SMART STEER MDU2 KIT
11179001024	QUICKTRAX KIT
11179001027	QUICKTRAX KIT
1HE07503000	HEMISPHERE AUTOMATE CONTROLLER
1JD0AA68362	PUMP INJECTION UL VOL
1JD0AA70271	PUMP/VALVE ASSY PLANTER JD
1JD0AA70881	PUMP/VLV PLNTR JD 32 - 36 ROW

<b>LIMITED REPAIR PRODUCTS LIST</b>	
<b>PART NUMBER</b>	<b>DESCRIPTION</b>
All part numbers	CRUIZER II (Push Button Power Switch)
10630159531	SCS440 WITH 9V BATTERY BACKUP
10630159747	CONSOLE 6 BOOM SCS 450
10630159849	CONSOLE SCS 440 JOHN DEERE
10630159931	CONSOLE ASSEMBLY 6 BOOM SCS431 MELROE
10630159938	CONSOLE 6 BOOM SCS 460
10630171115	CONSOLE ASY SCS 330
10630171183	CONSOLE ASY 440 SERIAL INTERFACE
10630171214	CONSOLE ASY 810 FLOW MAX
10630171236	CONSOLE ASSY SCS 440 TORO PRO
10630171249	CONSOLE ASY 460 SER INTERFACE
10630171269	CONSOLE SCS 440 HAHN
10630171291	CONSOLE 4 BOOM SCS 330
10630171357	MONITOR ASY FLOW MAX 110
10630171412	CONSOLE 440 GOLD ACRES
10630171419	CONSOLE 440 PORTUGUESE SER POR
10630171442	CONSOLE ASY SCS 450 PORT
10630171446	CONSOLE ASSY GVM SCS 460
10630171704	CONSOLE BOOM LIGHT SCS 460 SERIAL INTERFACE
10630171855	CONSOLE DLA-336
10630171922	MBA-4 ANTENNA
10630171942	CONSOLE GOLD ACRES SCS 440 DUAL BOOM
10630171953	SWITCHBOX RGL 500/600 TO RAVEN
10630171954	SWITCHBOX RGL500/600 UNIVERSAL
10630171964	CONSOLE SCS SIDEKICK DIRECT INJECTION
10630172008	CONSOLE DCS 410
10630172200	CONSOLE SCS 440 TORO CTRL 28 DISP
10630172281	CONSOLE SCS 4400
10630172320	CONSOLE ASSY SCS 4000 CAN
10630172328	CONSOLE SCS 4600 CASE IH
10630172343	CONSOLE SCS 4600
10630172346	LIGHTBAR RGL 600
10630172348	LIGHTBAR RGL 600T
10630172368	SWITCHBOX WIRELESS REMOTE LIGHTBAR
10630172429	CONSOLE DCS410 6BOOM TYLER ICE
10630172466	CONSOLE SCS 460 SERIAL INTERFACE PORTUGUESE
10630172480	ANTENNA MBA-3
10630172488	CONSOLE SCS 4400 PORTUGUESE/SP
10630172493	CONSOLE 4400 PORT/SPAN CASE IH
10630172549	LIGHTBAR RGL 600IC
10630172551	CONSOLE TIER CONTROL SCS 4400
10630172554	CONSOLE SCS 4600 HAGIE
10630172563	CONSOLE TOP AIR SCS 450
10630172563	CONSOLE TOP AIR SCS 450
10630172568	LIGHTBAR RGL600 SPANISH/PORT



<b>LIMITED REPAIR PRODUCTS LIST</b>	
<b>PART NUMBER</b>	<b>DESCRIPTION</b>
10630172582	LIGHTBAR RGL 600IC-T
10630172583	CONSOLE SCS 4000 PORTUGUESE
10630172585	CONSOLE SCS 4600 SPANISH/PORT
10630172596	LIGHTBAR RGL600IC SPAN/PORT
10630172651	ANTENNA MBA-6
10630172719	PHOENIX 200 AGCO ONLY
10630172740	RECEIVER PHOENIX 200 HELIX
10630172756	RECEIVER, MGPS PHOENIX 300
10630172756X	RECEIVER, MGPS PHOENIX 300
10630172784	CONTROLLER ASSY SMARTRAX II (LONG BOX)
10630172784X	CONTROLLER ASSY SMARTRAX II (LONG BOX - CURRENT COMP)
10630172865	CONSOLE ENVIZIO PRO W/GPS 2USB
10630172871	RECEIVER, PHOENIX 300, MGPS, INVERTED MOUNT
10630172873	CNTRL ASSY RVS MNT SMARTRAX II (LONG BOX)
10630172873X	CNTRL ASSY RVS MNT SMARTRAX II (LONG BOX - CURRENT COMP)
10630172879	CONSOLE VIPER PRO - REV D AND HIGHER
10630172898	CONSOLE 6-BOOM SCS460 GVM SERIAL INTERFACE
10630172913	CONSOLE SCS 4070
10630172926	CONSOLE VIPER PRO AGCO - REV D AND HIGHER
10630172927	CONSOLE VIPER PRO CASE IH
10630172939	CONSOLE ENVIZIO PRO W/O GPS
10630172953	LIGHTBAR RGL 600IC EAME AGCO
10630172959	CONSOLE ENVIZIO PRO W/GPS 4 USB PORTS
10630172974	CONSOLE ENVIZIO PRO E-DIF
10630173053	CONSOLE VIPER PRO SEED HAWK -REV D AND HIGHER
10630173076	CONSOLE SCS 450 SPANISH JD CE
10630173077	CONSOLE SCS 450 PORTUGUESE JD CE
10630173078	CONSOLE SCS 450 GERMAN JD CE
10630173079	CONSOLE SCS 450 FRENCH JD CE
10630173096	CONSOLE SCS 450 ENGLISH JD
10630173099	SMARTBOOM CONTROLLER - JOHN DEERE
10630173237	CONSOLE SCS 440 TORO CTRL XP 28 DP
10630173238	CONSOLE SCS 450 CE
10630173258	CONSOLE ENVIZIO PRO OEM V2
10630173301	CONSOLE ENVIZIO PRO II VERSATILE
10630173370	CONSOLE VIPER PRO ET
10630173371	CONSOLE ENVIZIO PRO ET OEM V2
10630173378	CONSOLE TOP AIR SCS 4400
10630173425	CONSOLE VIPER PRO ET
10630173426	ENVIZIO PRO II ETXDC ET
10630173431	CONSOLE VIPER PRO CASE IH ETX-DC
10630173477	CNSL SCS 4600 NO DATALOG
10630173511	CONSOLE ENVIZIO PRO XL
10630173517	CONSOLE ENVIZIO PRO II SCALEABLE GPS
10630173518	CONSOLE VIPER PRO VERSATILE
10630173537	CONSOLE ENVIZIO PRO II VERSATILE SCALEABLE

<b>LIMITED REPAIR PRODUCTS LIST</b>	
<b>PART NUMBER</b>	<b>DESCRIPTION</b>
10630173564	CONSOLE ENVIZIO PRO II SCALABLE GPS ET
10630173689	PHOENIX 200 RECEIVER
10630173760	CONSOLE SCS 460 GVM 28
10630173975	CONSOLE SCS 5000 CAN CASE IH