

# 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                                |
| 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                              |
| 10630172428 | PUMP MOTOR ASSY 3/4IN INJ PUMP                         |

## NON-REPAIRABLE PRODUCTS LIST

| PART NUMBER  | DESCRIPTION                                       |
|--------------|---|
| 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                                 |
| 10630173074  | NODE SMARTSTEER 3D                                |

**NON-REPAIRABLE PRODUCTS LIST**

| PART NUMBER | DESCRIPTION                        |
|-------------|------------------------------------|
| 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                |



**LIMITED REPAIR PRODUCTS LIST**

| PART NUMBER  | DESCRIPTION  |
|--------------|--|
| 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           |