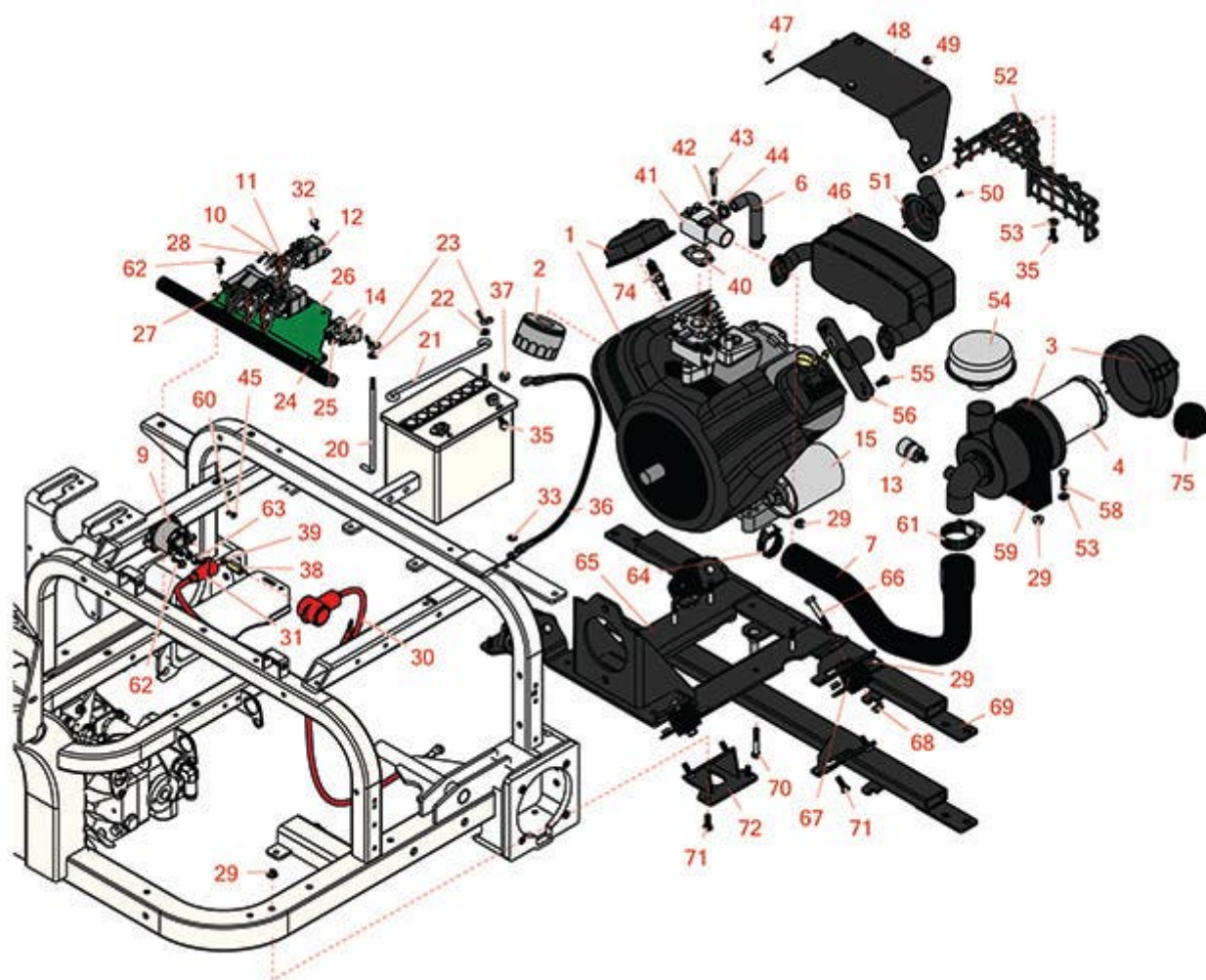




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# Replaces R&R Products Sand Max 416

## Parts

Traction Unit  
Engine



| Item No                                                                                                                                 | R&R Part No.   | OEM Part No.                                                                                                                                                                                                         | Description              | Qty Req | Order Quantity |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|----------------|
| <b>Engines</b>                                                                                                                          |                |                                                                                                                                                                                                                      |                          |         |                |
| 1                                                                                                                                       | RS3054470588G1 | R108-2942,<br>R117-2731,<br>R117-2732,<br>R120-3402,<br>R98-0930,<br>RS3034470480,<br>RS3034471180,<br>RS303447118000,<br>RS3034471180E2,<br>RS3054470178E1,<br>RS3054470178G2,<br>RS3054470265G2,<br>RS3054470285G2 | B-S Engine 16 Hp         | 1       |                |
| <b>Filters</b>                                                                                                                          |                |                                                                                                                                                                                                                      |                          |         |                |
| 2                                                                                                                                       | RS492932S      | R107-7817,<br>RS492056                                                                                                                                                                                               | B-S Filter-Oil           | 1       |                |
| <i>Detail Description: Oil Filter. Smaller Version of 491056 (Ht. 2-1/4"). For Extended Life Series Version, Use 696854/5076D/4206:</i> |                |                                                                                                                                                                                                                      |                          |         |                |
| 2                                                                                                                                       | RRF10602       |                                                                                                                                                                                                                      | SilverGuard Oil Filter   | 1       |                |
| 3                                                                                                                                       | R93-2190       |                                                                                                                                                                                                                      | Air Cleaner Assy         | 1       |                |
| 4                                                                                                                                       | R108-3811      |                                                                                                                                                                                                                      | Element - Air Cleaner    | 1       |                |
| <b>Hoses</b>                                                                                                                            |                |                                                                                                                                                                                                                      |                          |         |                |
| 6                                                                                                                                       | R110-0268      |                                                                                                                                                                                                                      | Hose-Adaptor, Carburetor | 1       |                |
| 7                                                                                                                                       | R108-8401      |                                                                                                                                                                                                                      | Hose-Air                 | 1       |                |
| <b>Gauges and Controls</b>                                                                                                              |                |                                                                                                                                                                                                                      |                          |         |                |
| 9                                                                                                                                       | R28-4210       |                                                                                                                                                                                                                      | Solenoid                 | 1       |                |
| 10                                                                                                                                      | R150812        | R109355,<br>R218-581                                                                                                                                                                                                 | Fuse - 15 Amp            | 3       |                |
| 11                                                                                                                                      | R218-578       | R95-2438                                                                                                                                                                                                             | Fuse - 10 Amp            | 1       |                |

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# Replaces R&R Products Sand Max 416

## Parts

*Traction Unit  
Engine*



| Item No | R&R Part No. | OEM Part No. | Description                      | Qty Req | Order Quantity |
|---------|--------------|--------------|----------------------------------|---------|----------------|
| 12      | R99-7430     |              | Relay - 30 Amp                   | 3       |                |
| 13      | R93-9164     |              | Indicator - Service - Air Filter | 1       |                |
| 14      | R100-4918    |              | Diode                            | 2       |                |
| 15      | RS691564     |              | B-S Motor-Starter                | 1       |                |

### Other Parts Available

|    |            |                                                                            |                                      |    |  |
|----|------------|----------------------------------------------------------------------------|--------------------------------------|----|--|
| 20 | R100-6435  | R56-7720                                                                   | Post - Battery - Stainless           | 2  |  |
| 21 | R100-6434  |                                                                            | Rod - Battery                        | 1  |  |
| 22 | R3256-22   | R09061,<br>R24-9-BD,<br>R3-1032,<br>R93-0954,<br>R93-0989                  | Washer - Flat 1/4 Yellow             | 2  |  |
| 23 | R09030     | R32103-1,<br>R32103-12,<br>R32103-22                                       | Nut - Wing 1/4                       | 2  |  |
| 24 | R108-6883  |                                                                            | Harness-Wire                         | 1  |  |
| 25 | R301504    | R32127-24,<br>R32146-17,<br>R3296-16,<br>R3296-42,<br>R915661P,<br>RM40333 | Locknut - ESNA 1/4-20                | 3  |  |
| 26 | R110-3322G |                                                                            | Bracket-Relay - Green                | 1  |  |
| 27 | R3296-2    | R32127-10,<br>R9157404                                                     | Nut - #10 Lock                       | 2  |  |
| 28 | R3250-13   |                                                                            | Screw-Pph                            | 2  |  |
| 29 | R104-8300  | R119-4041                                                                  | Locknut - 5/16-18 Flanged Y/Zinc     | 18 |  |
| 30 | R110-3314  |                                                                            | Cable-Positive - Battery to Solenoid | 1  |  |

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# Replaces R&R Products Sand Max 416

## Parts

*Traction Unit  
Engine*



| Item No | R&R Part No. | OEM Part No.                                                                                                                                                   | Description                          | Qty Req | Order Quantity |
|---------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|----------------|
| 31      | R110-3315    |                                                                                                                                                                | Cable-Positive - Solenoid to Starter | 1       |                |
| 32      | R400106      | R321-3,<br>R513315,<br>R908002P                                                                                                                                | Bolt - Hex HD 1/4-20 x 5/8           | 3       |                |
| 33      | R3255-8      |                                                                                                                                                                | Washer - Lock 5/16 Ext               | 1       |                |
| 35      | R322-3       | R01-150-1420,<br>R01-178-0506,<br>R09109,<br>R20-24-AD,<br>R20-24-AGD,<br>R48-9270,<br>R513339,<br>R908017P,<br>RB311201                                       | Bolt - Hex HD 5/16-18 x 3/4          | 5       |                |
| 36      | R105-0836    |                                                                                                                                                                | Cable-Battery - Black                | 1       |                |
| 37      | R443106      | 3218-2,<br>443106,<br>R01-188-0518,<br>R09003,<br>R22-12-AJD,<br>R32111-4,<br>R3217-4,<br>R3217-6,<br>R513295,<br>R513412,<br>R915112P,<br>R915978,<br>R915979 | Nut - 5/16-18 Y/Zinc Plated          | 2       |                |
| 38      | R110-3380    |                                                                                                                                                                | Nut-Standoff                         | 1       |                |

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# Replaces R&R Products Sand Max 416

## Parts

*Traction Unit  
Engine*



| Item No | R&R Part No.      | OEM Part No.                                                                                                                                                   | Description                              | Qty Req | Order Quantity |
|---------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|----------------|
| 39      | <b>R3253-4</b>    | R01-166-0110,<br>R01-166-0510,<br>R09053,<br>R23-10-GD,<br>R24-7170,<br>R30-8520,<br>R42-9850,<br>R48-9350,<br>R48-9360,<br>R48-9570,<br>R68-9420,<br>R99-7577 | Washer - Lock 5/16 Zinc                  | 2       |                |
| 40      | <b>RS844931</b>   | R692081                                                                                                                                                        | B-S Gasket-Air Cleaner                   | 1       |                |
| 41      | <b>R108-2829</b>  |                                                                                                                                                                | Adaptor-Carbureto                        | 1       |                |
| 42      | <b>R43-5930</b>   | R01-176-0030                                                                                                                                                   | Washer - Lock M6                         | 4       |                |
| 43      | <b>R33103-045</b> |                                                                                                                                                                | Bolt - M6 x 1.0 x 45 Flange H/D Zinc 8.8 | 4       |                |
| 44      | <b>R2412-36</b>   | R2210-87,<br>R31-9140,<br>R93-5818,<br>R99-0772                                                                                                                | Clamp - Hose 1/2                         | 2       |                |
| 45      | <b>R3218-13</b>   |                                                                                                                                                                | Nut-Jam, Brass                           | 1       |                |
| 46      | <b>R114-0628</b>  | R108-7964                                                                                                                                                      | Muffler - Dual Inlet                     | 1       |                |
| 47      | <b>R33103-012</b> |                                                                                                                                                                | Bolt - Flanged Hx HD                     | 3       |                |
| 48      | <b>R105-8523</b>  | R88-8380,<br>R95-5827,<br>R95-5827-03                                                                                                                          | Shield - Muffler                         | 1       |                |
| 49      | <b>R445795</b>    | R30-4020,<br>R32128-25,<br>R444794                                                                                                                             | Nut - 5/16-18 Flanged                    | 3       |                |
| 50      | <b>R150291</b>    | R32144-87                                                                                                                                                      | Screw - 8 x 1/2 Sheet Metal              | 4       |                |
| 51      | <b>R119-2459</b>  | R110-1306                                                                                                                                                      | Tailpipe                                 | 1       |                |

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# Replaces R&R Products Sand Max 416

## Parts

*Traction Unit  
Engine*



| Item No | R&R Part No.        | OEM Part No.                                                                                                                                                                     | Description                             | Qty Req | Order Quantity |
|---------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------|----------------|
| 52      | <b>R110-6348-03</b> |                                                                                                                                                                                  | Shield - Exhaust                        | 1       |                |
| 53      | <b>R453009</b>      | 3256-3,<br>R01-166-0400,<br>R24-10-BD,<br>R24-9-AD,<br>R24H1136,<br>R32-9650,<br>R3256-2,<br>R3256-23,<br>R3256-67,<br>R3290-217,<br>R3556-3,<br>R4-2390,<br>R452006,<br>R7-0152 | Washer - Flat 5/16 SAE                  | 5       |                |
| 54      | <b>R46-7510</b>     |                                                                                                                                                                                  | Hood-Inlet- Air                         | 1       |                |
| 55      | <b>R3210-2</b>      |                                                                                                                                                                                  | Bolt - Hx HD 5/16-24 x 5/8              | 2       |                |
| 56      | <b>R95-0632-03</b>  | R95-0632                                                                                                                                                                         | Cover Assy                              | 1       |                |
| 58      | <b>R400190</b>      | R01-150-0720,<br>R01-178-0510,<br>R30-8680,<br>R322-6,<br>R513343                                                                                                                | Bolt - Hex HD 5/16-18 x 1-1/4<br>GR5    | 2       |                |
| 59      | <b>R95-5806</b>     |                                                                                                                                                                                  | Bracket-Mounting                        | 1       |                |
| 60      | <b>R3254-1</b>      | R19-0820,<br>R33-7-FHD                                                                                                                                                           | Washer- Lock - Int                      | 2       |                |
| 61      | <b>RG132</b>        |                                                                                                                                                                                  | Clamp - Hose 1.56-2.5 Box/10            | 1       |                |
| 62      | <b>R32144-10</b>    | R32140-81,<br>R32144-3,<br>R34-140-AMVD                                                                                                                                          | Bolt - 1/4-20 x 3/4 Serrated Hx<br>Wshr | 4       |                |

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# Replaces R&R Products Sand Max 416

## Parts

*Traction Unit  
Engine*



| Item No | R&R Part No. | OEM Part No.                                                                                       | Description                    | Qty Req | Order Quantity |
|---------|--------------|----------------------------------------------------------------------------------------------------|--------------------------------|---------|----------------|
| 63      | R444312      | R22-9-BJD,<br>R26-2360,<br>R26-4370,<br>R3219-12,<br>R3219-14,<br>R48-9280,<br>R513287,<br>R915561 | Nut - 10-32                    | 2       |                |
| 64      | R2412-3      | R99-0782                                                                                           | Clamp - Hose - 1 1/16-2        | 1       |                |
| 65      | R108-2809-03 | R108-2809                                                                                          | Engine Support Assy            | 1       |                |
| 66      | R323-11      | R01-150-1440,<br>R01-178-0618,<br>R20-52-AD,<br>R3224-7                                            | Bolt - 3/8-16 x 2 1/4 GR5      | 4       |                |
| 67      | R83-1030     | R108-6879,<br>R121-9076,<br>R83-1031,<br>RZS484148                                                 | Mount - Engine                 | 4       |                |
| 68      | R104-8301    | R109-6658,<br>R133-7570                                                                            | Locknut - 3/8-16 Nylon Flanged | 4       |                |
| 69      | R108-2819B   |                                                                                                    | Engine Mount Assy              | 1       |                |
| 70      | R322-10      | R20-30-AD,<br>R24-7180,<br>R3223-6,<br>R513347                                                     | Bolt - Hex HD 5/16-18 x 2      | 4       |                |
| 71      | R322-4       | R3290-115,<br>R908018P                                                                             | Bolt - Hex HD 5/16-18 x 7/8    | 12      |                |
| 72      | R108-8474B   |                                                                                                    | Front Mount Assy               | 2       |                |
| 74      | RN7938       | R130-8380,<br>R491055,<br>RN1716,<br>RN1736                                                        | NGK Spark Plug - BKR5E         | 2       |                |

*Detail Description: Replaces Champion RC12YC:*

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# Replaces R&R Products Sand Max 416 Parts

*Traction Unit  
Engine*



| Item<br>No | R&R<br>Part No. | OEM<br>Part No. | Description      | Qty<br>Req | Order<br>Quantity |
|------------|-----------------|-----------------|------------------|------------|-------------------|
| 75         | R87-9400        | R94-1414        | Valve - Vacuator | 1          |                   |

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