



BIG BEAR POWER

GX COMMERCIAL LLC

4301 S VALLEY VIEW BLVD. STE 10 AND 11

LAS VEGAS, NV 89103

725-274-6171

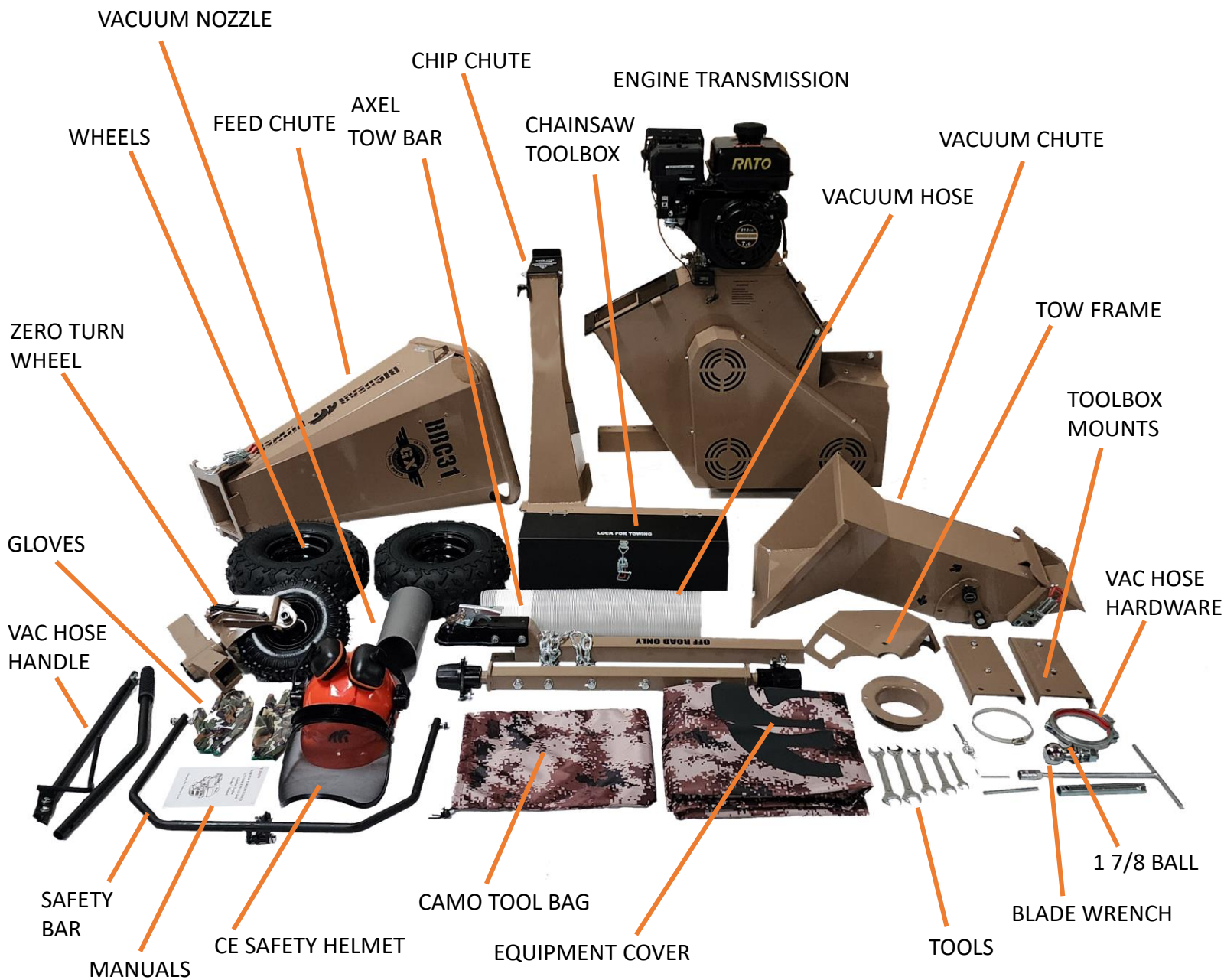
BBC31 ASSEMBLY MANUAL



REVISED 06-23-2024

PRE-DEPLOYMENT

- 1. REMOVE THE TOP AND SIDES FROM THE CRATE**
- 2. LEAVE THE ENGINE TRANSMISSION ON THE PALLET**
- 3. WE RECOMMEND YOU ENLIST A HELPER TO ASSEMBLE THIS MACHINE**



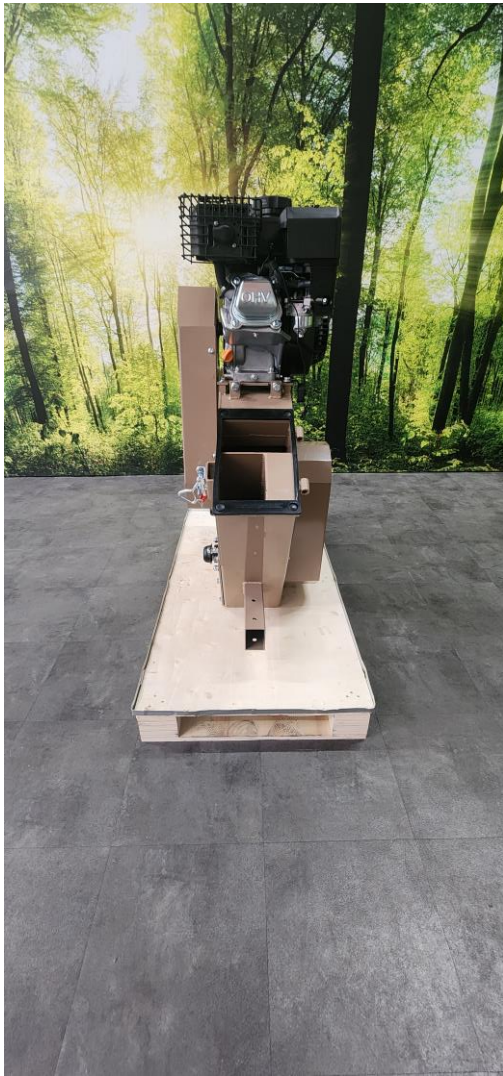
MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 2

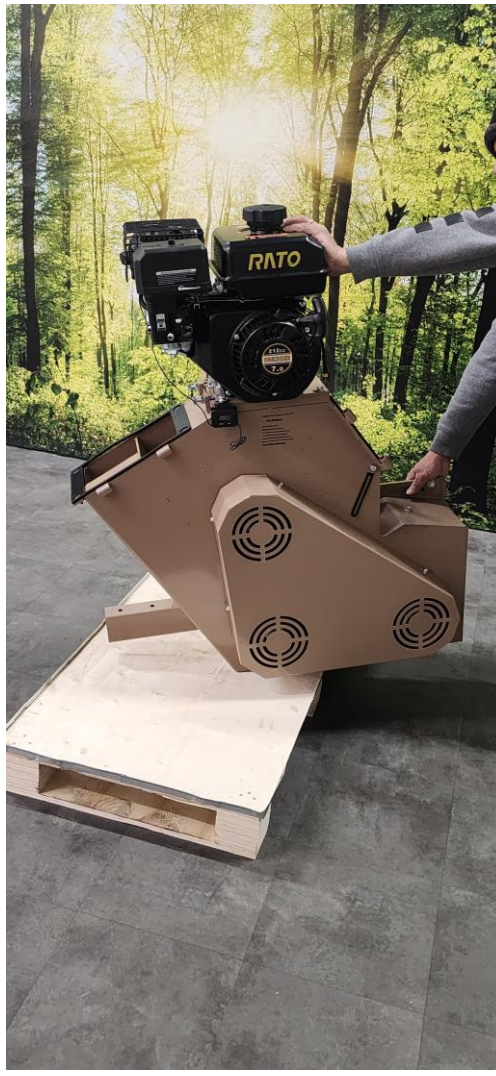
POSITION THE CHIPPER ON THE PALLET

1. REMOVE TOP AND CRATE SIDES AND ALL THE PARTS
2. TURN THE CHIPPER ON THE PALLET AS SHOWN
3. THE CHIPPER WILL HANG OVER THE EDGE OF THE PALLET

1



2



3



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 3

INSTALL WHEEL AXLE

- 1. LOCATE THE RING COLLAR PART**
- 2. TIP THE UNIT BACK**
- 3. PLACE THE RING COLLAR FOR SUPPORT AS SHOWN**
- 4. INSTALL THE REAR AXLE WITH THE BOLTS PROVIDED**

1



3



2



4

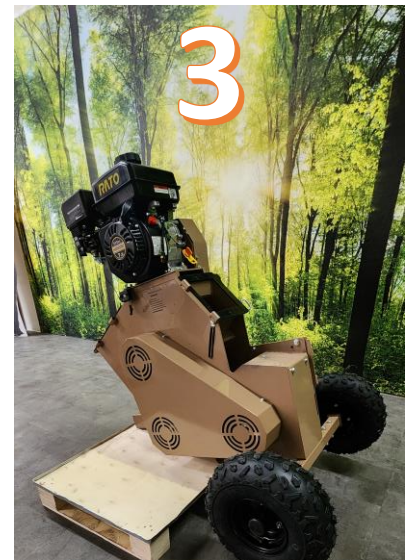


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 4

WHEEL INSTALLATION

1. **PREPARE TO MOUNT THE RIMS**
2. **MOUNT THE RIMS WITH NUTS PROVIDED**
3. **REMOVE THE SUPPORT COLLAR**
4. **LOWER THE MACHINE TIRES TO THE FLOOR**

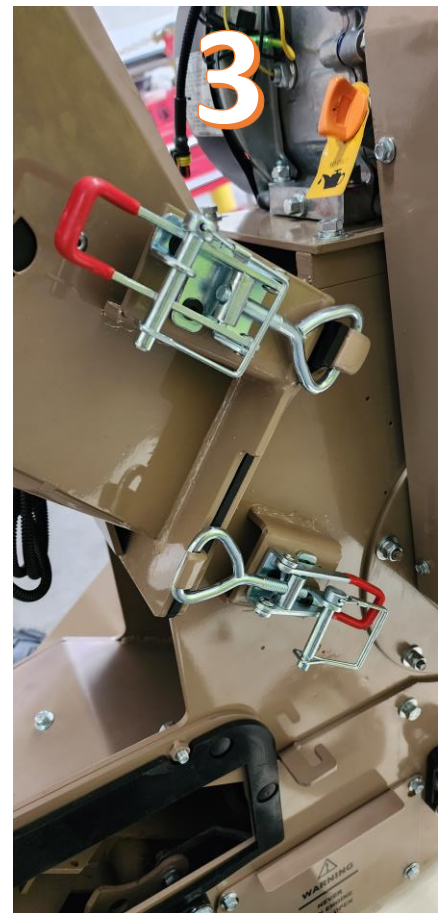


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 5

INSTALL THE MAIN FEED CHUTE

- 1. ALIGN THE HINGES AND SLIDE ON THE CHUTE**
- 2. CLOSE THE FEED CHUTE**
- 3. LATCH BOTH LATCHES AND INSTALL LOCKING PINS**

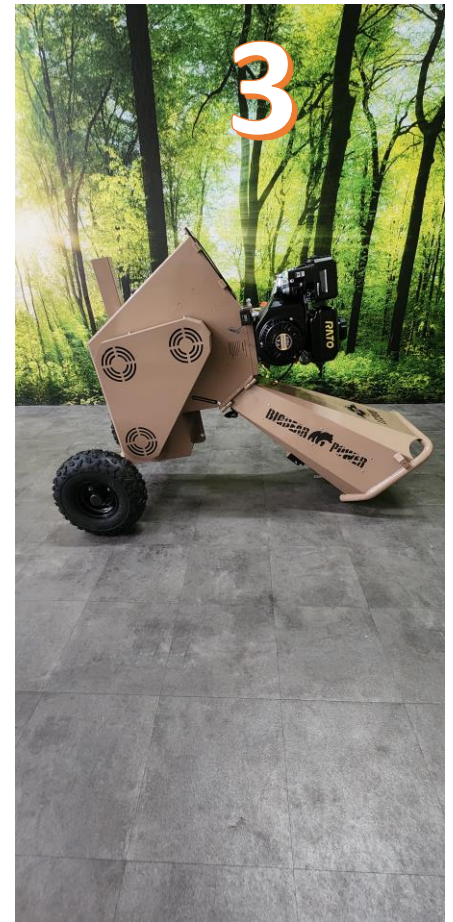


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 6

REPOSITION THE MACHINE

1. **FIRMLY HOLD THE FEED CHUTE BY THE HANDLES**
2. **PULLING BACK AS SHOWN BALANCE THE CHIPPER ON THE REAR WHEELS**
3. **GENTLY LOWER TO THE FLOOR RESTING ON THE FEED CHUTE AND REMOVE THE PALLET FROM THE WORK AREA**



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 7

INSTALL THE FRONT WHEEL

1. PREPARE THE FRONT WHEEL AS SHOWN
2. INSTALL THE TOW ASSEMBLY TUBES TOGETHER AND BOLT
3. INSTALL TOW SHIELD AS SHOWN – TIGHTEN ALL HARDWARE
4. REPOSITION THE MACHINE BACK TO LEVEL AS SHOWN

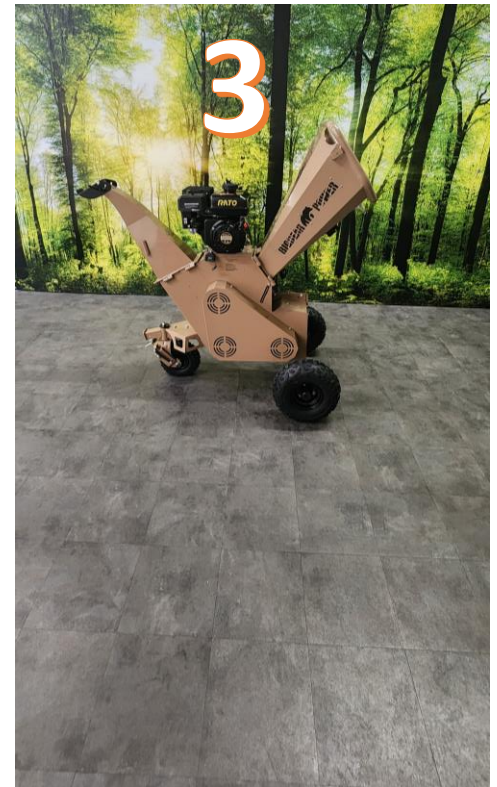


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 8

INSTALL THE CHIP CHUTE

- 1. ALIGN HINGES ON THE CHIP CHUTE AND SLIDE INTO PLACE**
- 2. CLOSE THE CHUTE**
- 3. LATCH AND LOCK THE CHUTE**



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 9

INSTALL SHUT OFF BAR

1. **BOLT THE BLACK BAR TO THE RIGHT OF THE SILVER BAR**
2. **PREPARE THE HARDWARE TO MOUNT THE BAR TO THE CHUTE SIDES**
3. **INSTALL THE SHUT OFF BAR TO THE CHUTE BOTH SIDES**
4. **PRESS BAR TO INSURE BAR LOCKS IN OFF POSITION**

1



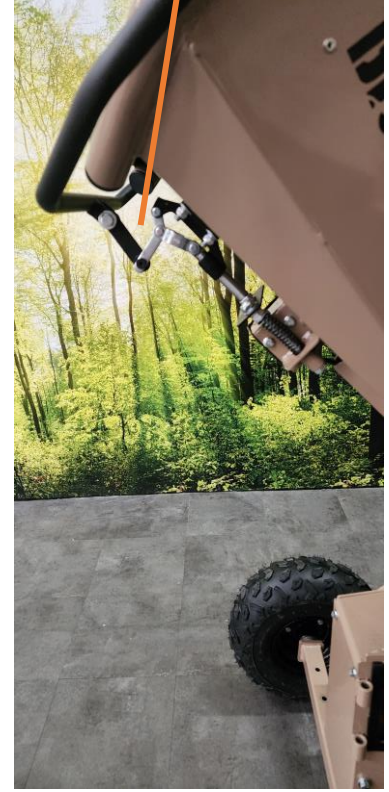
2



3



4

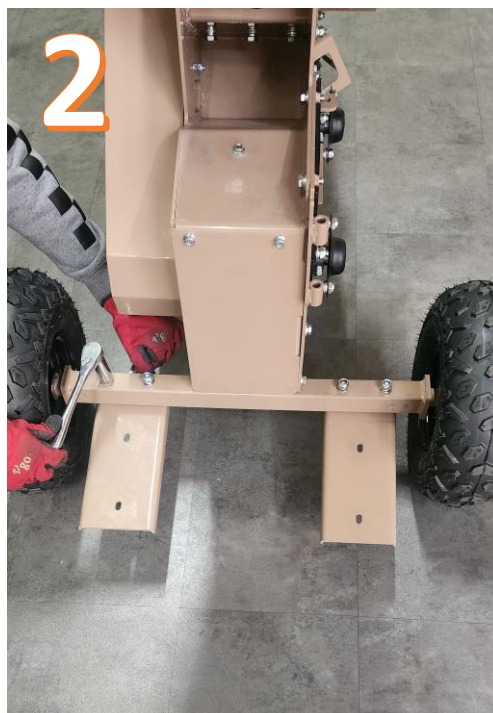


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 10

INSTALL THE TOOLBOX

1. PREPARE THE TOOLBOX MOUNTS AS SHOWN
2. INSTALL AND TIGHTEN THE MOUNTS
3. INSTALL THE TOOLBOX WITH HARDWARE AS SHOWN
4. CLOSE LATCH AND PIN LOCK THE TOOLBOX



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 11

INSTALL THE VACUUM SIDE CHUTE

1. **ALIGN THE VACUUM CHUTE HINGES AND SLIDE INTO PLACE**
2. **CLOSE CHUTE, LATCH AND PIN LOCK**
3. **HAVE CAUTION IN NEXT STEP NOT TO DROP ANY HARDWARE INTO THE CUTTING DRUMS OR CHUTE TRANSMISSION**

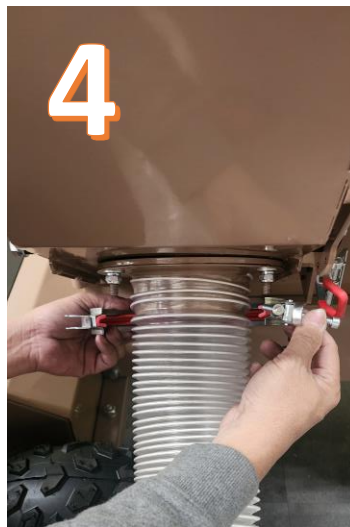


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 12

INSTALL VACUUM HOSE

1. REMOVE THE COVER PLATE AND KEEP IF NEEDED IN THE FUTURE
2. INSTALL HOSE COLLAR AS SHOWN
3. INSTALL HOSE FULLY ONTO THE COLLAR TUBE
4. SECURE THE HOSE WITH THE HOSE CLAMP AND ADJUST TO SEAL TIGHT
5. ENSURE ALL BOLTS ARE TIGHT

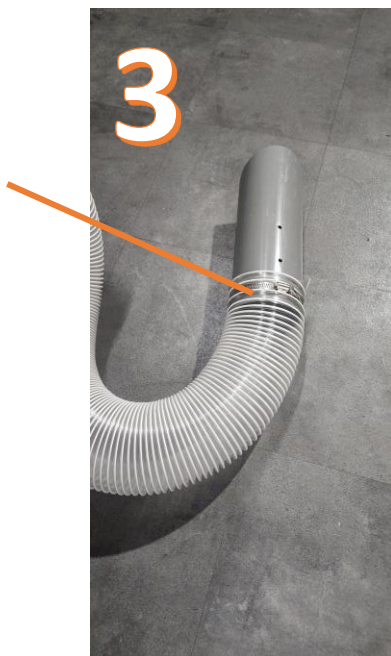


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 13

INSTALL HOSE HANDLE AND NOZZLE

1. PREPARE THE HANDLE FOR ASSEMBLY
2. BOLT THE HANDLE TOGETHER AS SHOWN
3. INSTALL THE NOZZLE ONTO THE VACUUM HOSE AND SECURE WITH BAND
4. BOLT HANDLE TO THE NOZZLE AS SHOWN



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 14

HOSE HANDLE INSTALLATION

1. **LOOP THE HOSE OVER THE CHIP CHUTE AS SHOWN**
2. **LOCATE THE MOUNTING ROD ON THE HANDLE**
3. **INSERT HANDLE ROD INTO THE MOUNTING TUBE ON THE CHIP CHUTE**

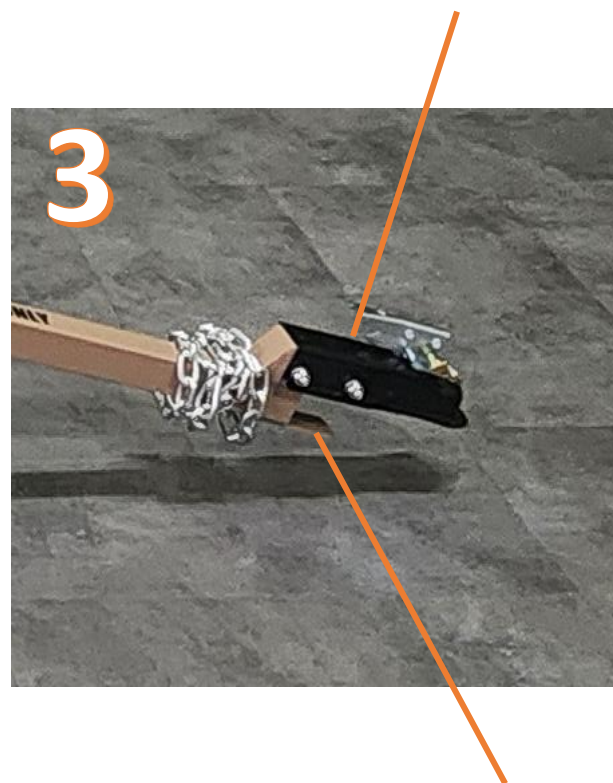
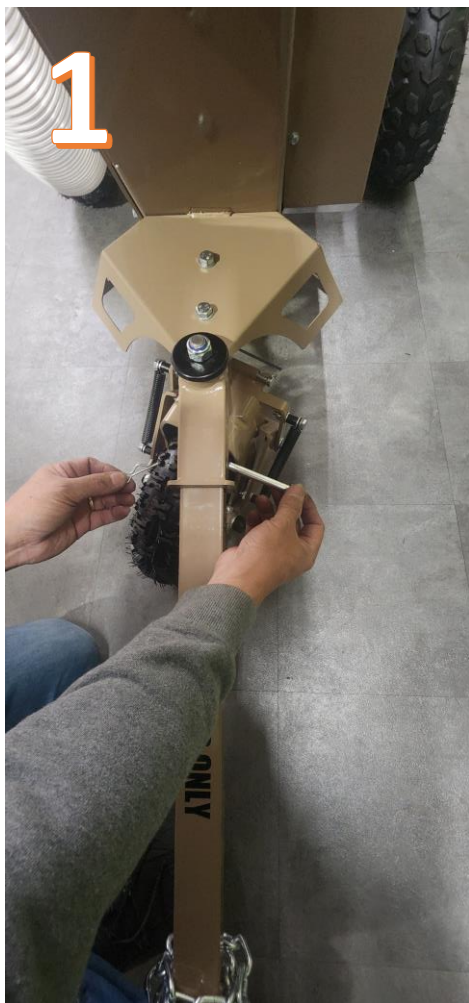


MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 15

INSTALL THE TOW BAR

1. **SLIDE THE TOW BAR INTO THE TOW TUBE AND PIN**
2. **CHECK ALL MACHINE HARDWARE FOR TIGHT ASSEMBLY**
3. **OPTIONAL – REMOVE 1/7/8 COUPLER TO USE PIN HITCH ON LAWN MOWER**



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

STEP 16

CONNECT THE ELECTRICAL

- 1. CONNECT THE ELECTRICAL WIRE FROM THE SHUT OFF SWITCH TO THE ENGINE.**
- 2. CHECK THE SHUT OFF SWICTH OPERATION BEFORE EACH USE – FOR YOUR OWN AND OTHERS SAFETY DO NOT USE THE CHIPPER IF THE SAFETY SHUT OFF IS NOT WORKING PROPERLY**



MISSING PARTS? CALL 725-274-6171 GX COMMERCIAL PARTS DEPT

FINISH LINE

CONGRATULATIONS ON A GREAT JOB ASSEMBLING !

- 1. CHECK YOUR BOLTS ON YOUR CHIPPER BEFORE EACH USE**
- 2. CHECK YOUR OSHA COMPLIANT SAFETY SHUT OFF BAR BEFORE EACH OPERATION**
- 3. USE 10W-30 .6L FOR YOUR ENGINE OIL API SERVICE LEVEL SJ**
- 4. CHECK YOUR OIL LEVEL ON LEVEL GROUND, REINSERT THE DIP STICK WITHOUT SCREWING IT IN TO CHECK THE OIL LEVEL. CHANGE YOUR OIL AFTER FIRST 20 HOURS. THEN EVERY 250 HOURS THEREAFTER.**
- 5. USE ONLY BIGBEAR OEM PARTS. ONLY BIGBEAR HIGH PERFORMANCE TORNADIC BLADES FIT BIGBEAR CHIPPERS. CALL 725-274-6171 FOR PARTS IN LAS VEGAS, NV.**
- 6. USE HIGH GRADE GASOLINE IN THIS ENGINE**
- 7. REPLACE YOUR BLADES AND DRIVE BELTS ONCE PER YEAR**
- 8. ALL DRUM BEARINGS AND WHEEL BEARINGS ARE PREPACKED AT FACTORY, GREASE ONCE PER YEAR WITH AXEL AND BEARING GREASE.**
- 9. FOLLOW YOUR MAINTENANCE SCHEDULE IN THE ENGINE MANUAL AND KEEP RECORDS**
- 10. THE INTENDED USE OF THIS CHIPPER IS TO CHIP TREES GRASS AND LEAVES ONLY.**
- 11. TOW YOUR MACHINE AT 25MPH MAX AND SLOW TO 10MPH FOR TURNING**
- 12. FOLLOW ALL THE SAFETY RULES RECOMMENDED BY OSHA AND THE SAFETY WARNINGS ON THIS EQUIPMENT.**
- 13. DO NOT MODIFY THIS EQUIPMENT IN ANY WAY**
- 14. KEEP THOSE AROUND YOU A SAFE DISTANCE WHEN RUNNING THIS MACHINE**
- 15. DO NOT OPERATE THIS CHIPPER UNDER THE INFLUENCE OF MEDS DRUGS OR ALCOHOL**
- 16. WEAR PROTECTIVE SAFETY HEAD GEAR, LONG PANTS, WORK BOOTS, GLOVES**



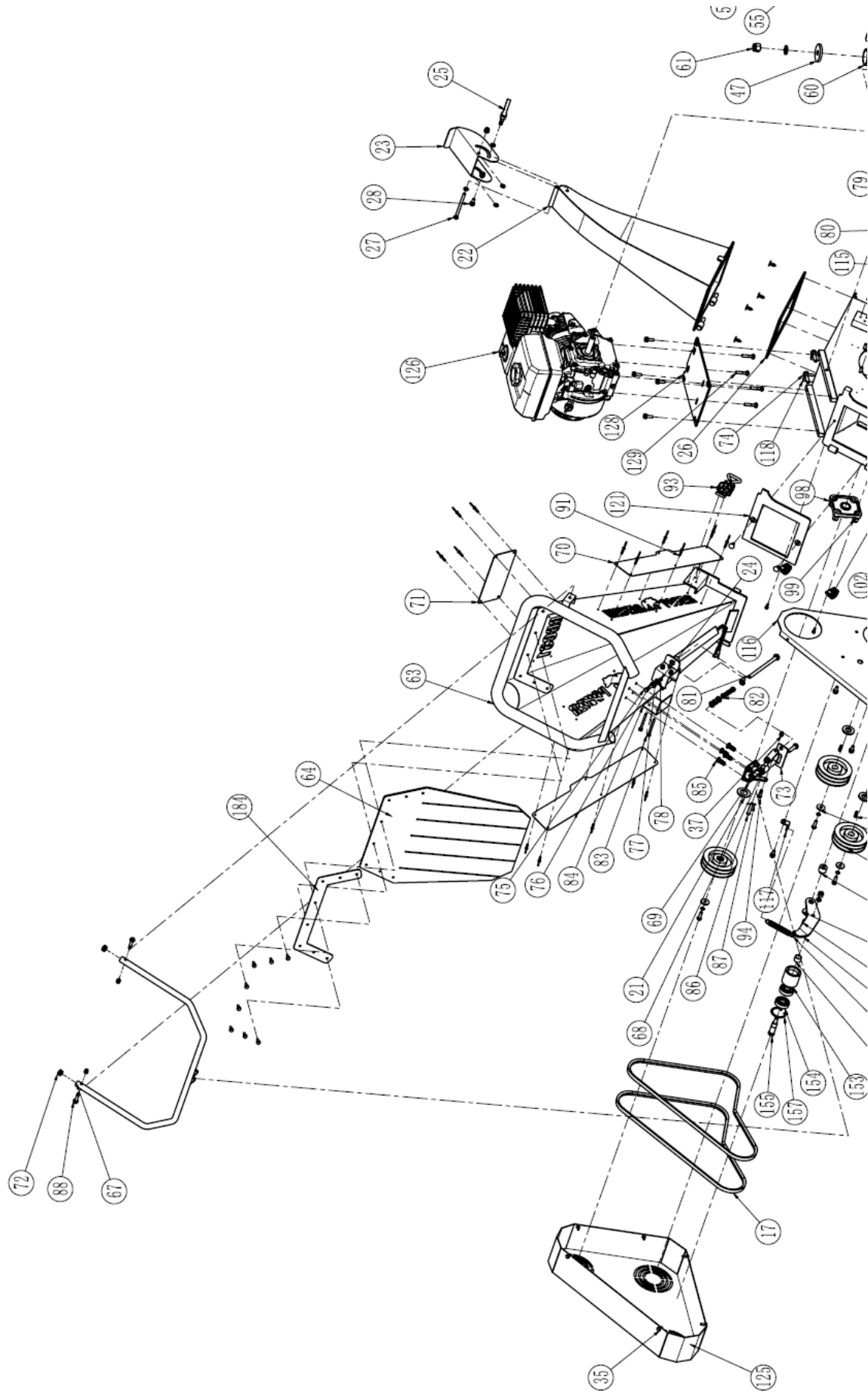
BBC31 PARTS LIST

NO	NAME	QTY		NO	NAME	QTY
1	Blade plate	1		91	Aluminum rivet 5	22
2	L blade	4		92	countersunk screw	15
3	Triangle knife spacer	6		93	D pin 6	5
4	Wind disc spacer	4		94	Shoulder bolt 8*12	1
5	cutter axis	2		95	Drum cover plate	1
6	Key 6*6*50	2		96	Bearing with seat UCFU205	2
7	Spring 8	68		97	Bolt M12*38	8
8	Washer M8	89		98	Washer M12	8
9	Lock nut M8	35		99	Spring washer 12	8
10	Bolt M8*25	35		100	Lock nut M12	8
11	Cutter pulley	2		101	Bearing with seat UCFU204	4
12	Big washer M8	9		102	Spring washer 10	26
13	Key 6*6*25	2		103	Bearing seat cover	2
14	Cutter pulley spacer	2		104	Leaf disk cover	1
15	Reverse cutter	1		105	cleaning port cover	1
16	triangle-tip knife	2		106	Infeed leaf cushion blocking	1
17	Belt A-1372	2		107	Bolt M10*55	4
18	Drum	1		108	Tow bar	1
19	Bolt M10*25	6		109	1-7/8 tow hitcher	1
20	Drum pulley	2		110	Bolt ,10*80	4
21	Washer26*45*3	5		111	Pin 9	1
22	Discharge chute	1		112	Pin ring	1
23	guide cap	1		113	Pin wireA	1
24	Plastic washer8	3		114	Bolt M10*70	1
25	Quick release bolt M8*20	1		115	Front foot decoration large board	1
26	Dischargecushioning pad	1		116	Belt cover inner	1
27	Bolt M8*105	1		117	Spring fixing block	1
28	Bolt M8*20	4		118	Main frame	1
29	Plastic nail	9		119	Limited block	1
30	Hose	1		120	Bolt M10*25	1
31	Pvc tube	1		121	Feed chute shock pad	1
32	Ring 110	1		122	Iron cable tie	2
33	Handle pipe	1		123	WAsher M5	8
34	Hanger	1		124	Spring washer 5	7
35	Washer M6	32		125	Three-wheel belt cover	1
36	Spring 6	12		126	Engine	1
37	Lock nut M6	9		127	Clutch	1
38	Handle pipe upper	1		128	Engine fixing plate	1
39	Bolt M6*25	2		129	square neck bolts with large head	4
40	Hoop 110 with buckle	1		130	Belt A-1016	2
41	wheel front support	1		131	Key 4.78 4.78 50	1
42	Bearing 6204	2		132	Clutch outer spacer	1
43	front wheel support spacer inner	1		133	Belt cover inner plate	1
44	Tire 4.1-4	1		134	Belt cover	1
45	front wheel support spacer out	2		135	Belt cover inner plate	1
46	Washer M16	3		136	Infeed leaf chute	1
47	Front wheel axle cover	1		137	close over	1
48	Bolt M16*160	1		138	Rotating sleeve spacer	2
49	Reverse clamp block fixing seat	1		139	Handle	1
50	Clamp block fixing seat	1		140	Suction tube flange	1
51	Clamp block	1		141	Stability spacer	2
52	Reverse fixing block on seat	1		142	Stainless steel plunger M16*1.5	1
53	Fixing block on seat	1		143	infeed leaf Baffle	1
54	Bolt M5*16	5		144	Suction mouth seal plate	1
55	Bolt M8*40	4		145	Bolt M10*30	1
56	Spring fixed spacer	4		146	Rear frame	1
57	tension spring	3		147	Tire145/70-6	2
58	Nut M5	2		148	Flange	2
59	D pin9*90	2		149	Bearing 6005	4
60	Front wheel fixing	1		150	Seal 47	4
61	Lock nut M16	2		151	Slotted nut M24*1.5	2
62	Spring washer 16	1		152	Bolt M10*65	2
63	Infeed chute	1		153	Belt Tensioner	1
64	Inlet rubber	1		154	Bearing 6303	2
65	Pressing buckle seat	4		155	Tensioner pole	1
66	Pressing ring	4		156	Tensioner spacer 22	1
67	emergency stop switch bar	1		157	inner lock ring 47	1
68	Drive arm	1		158	Tensioner fixing block	1
69	304E Quick clip	1		159	fixed block support seat	1
70	Logo Letter bottom plate	2		160	Big washer M10	1
71	BBC bottom plate	1		161	Bolt M10*50	1
72	Plastic plug 19	2		162	Battery box	1
73	emergency stop switch limited plate	1		163	Battery	1
74	Nut M10	4		164	Battery base	1
75	Bolt M8*30	1		165	Bolt M5*20	1
76	Plastic washer 10	1		166	Lock nut M5	4
77	Insulated step mat	1		167	Tool box	1
78	Infeed chute wire	1		168	stainless steel hinge cover	2
79	Washer M10	52		169	Tool box cover	1
80	Lock nut M10	27		170	Press buckle 4001	1
81	Bolt M10*160	1		171	Press buckle hook	1
82	13 16 115 Compression spring	1		172	Tool box fixation	2
83	Bolt M6*70	2		173	Tool box front plate	1
84	Contact cover plate	1		174	stainless steel hinge bottom	2
85	Hexagonal Bolt M8*25	4		175	Bolt M8*60	4
86	Axis pin 8*45	1		176	Aluminum rivet 4	16
87	Pin 2.3*45	1		177	Hexagonal Bolt M6*30	1
88	Shoulder bolt 8*25	2		178	B Pin	1
89	Bolt M6*16	21		179	Blade	2
90	Bolt M10*40	15		180	Nut M16	1
				181	Nut M8	6
				182	Bolt M8*25	2
				183	Handle sleeve	1
				184	Inlet rubber Layer	1
				185	Bolted welded	1

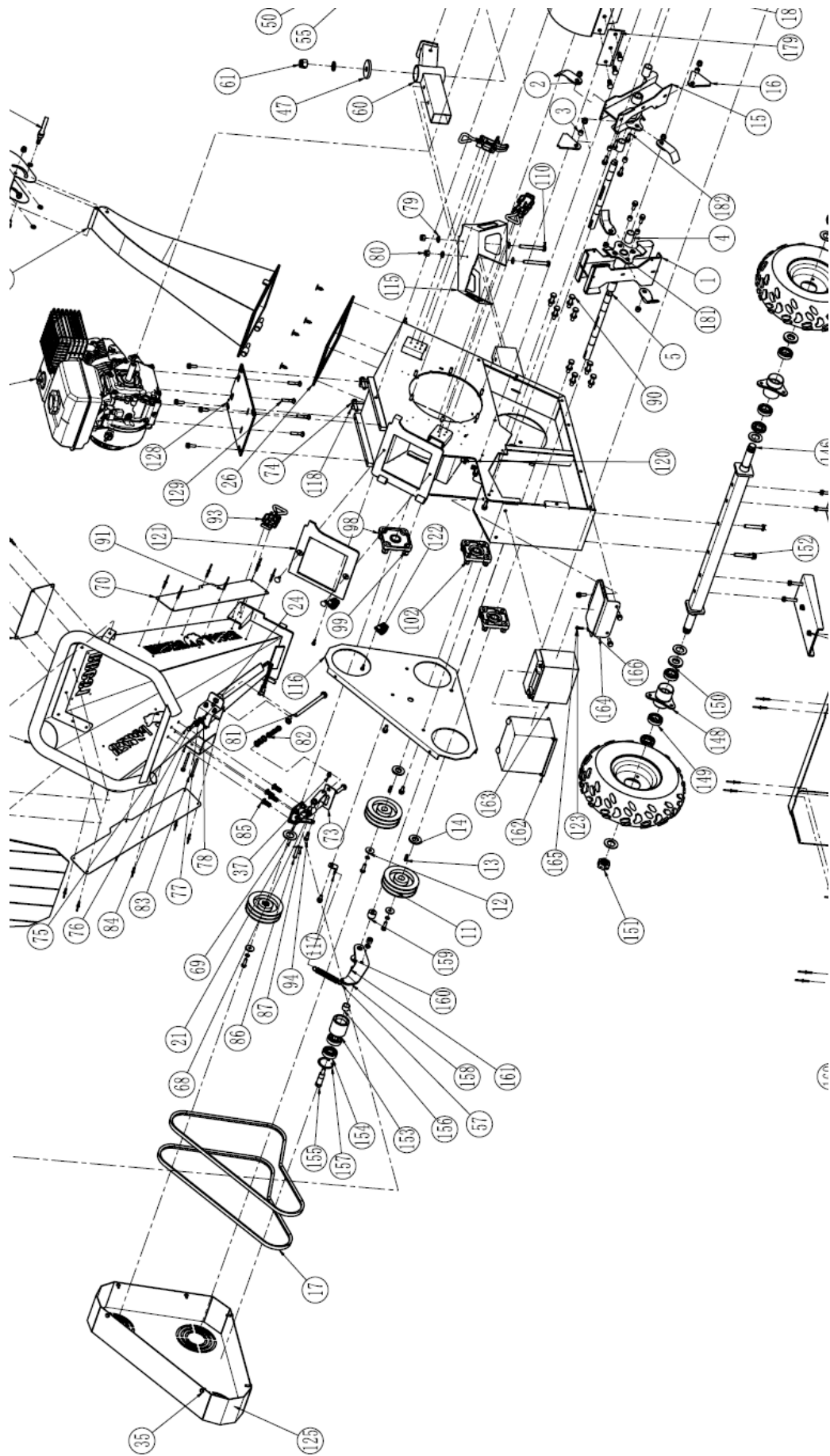
BBC31 PARTS DRAWING



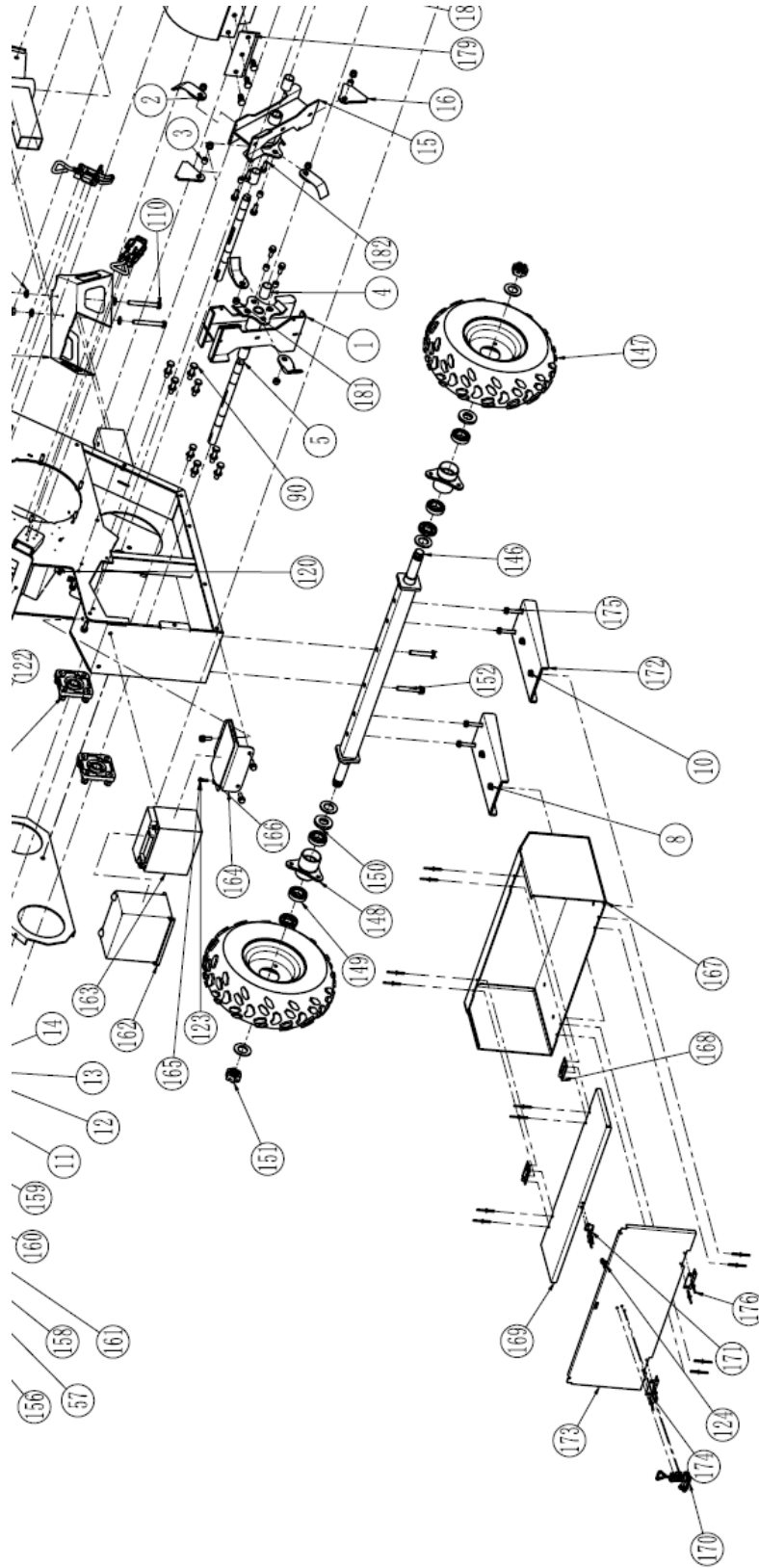
BBC31 PARTS DRAWING



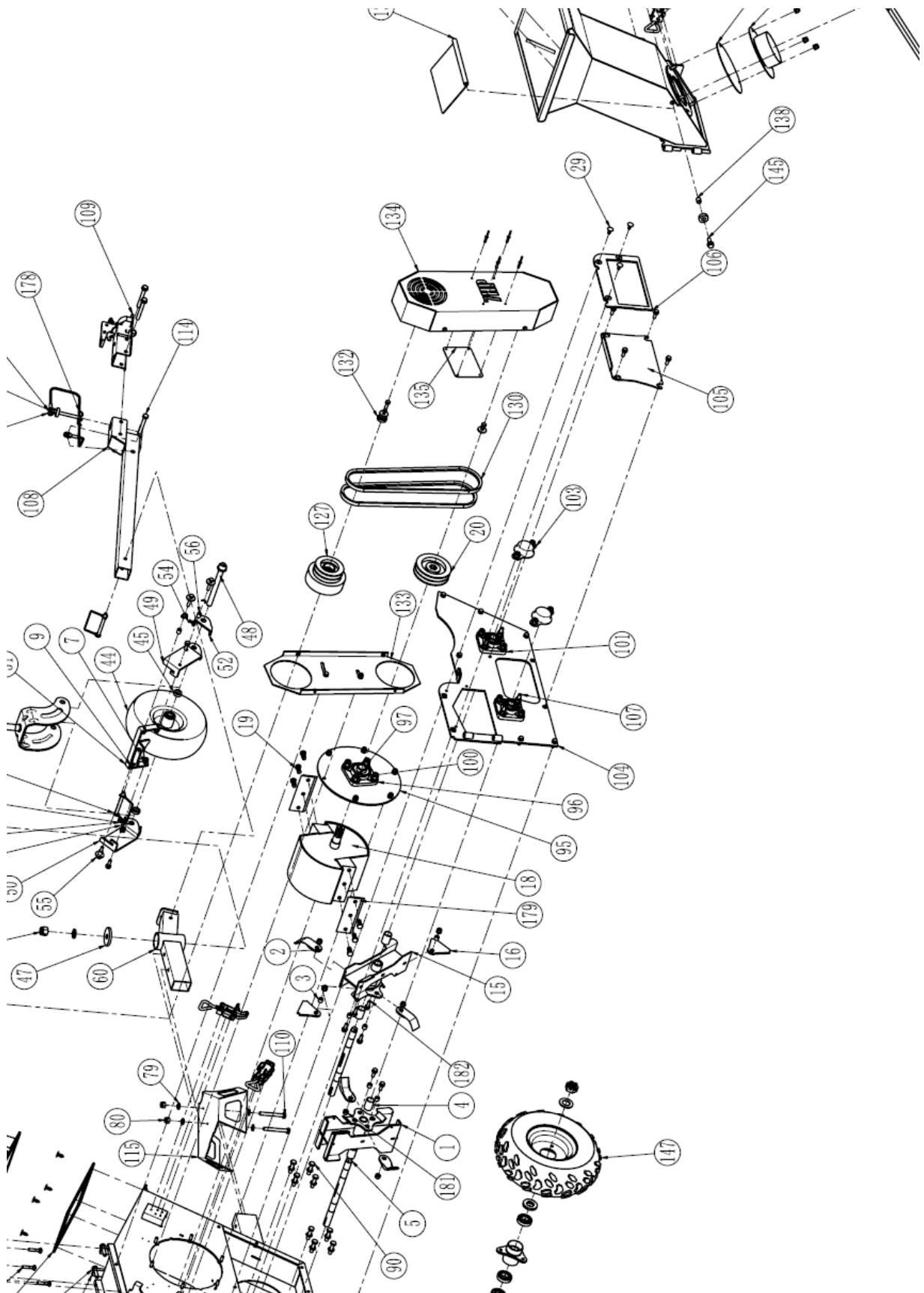
BBC31 PARTS DRAWING



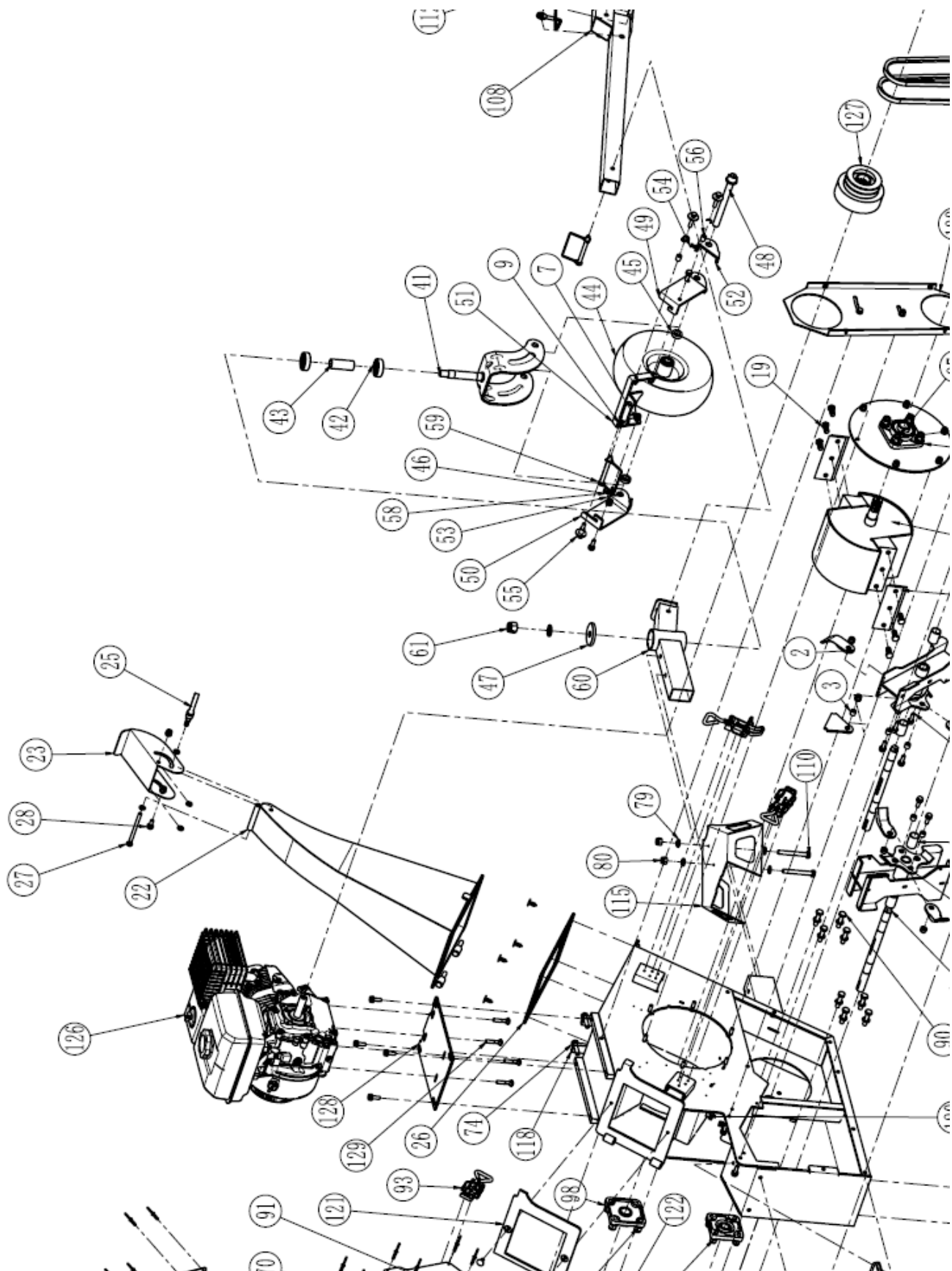
BBC31 PARTS DRAWING



BBC31 PARTS DRAWING

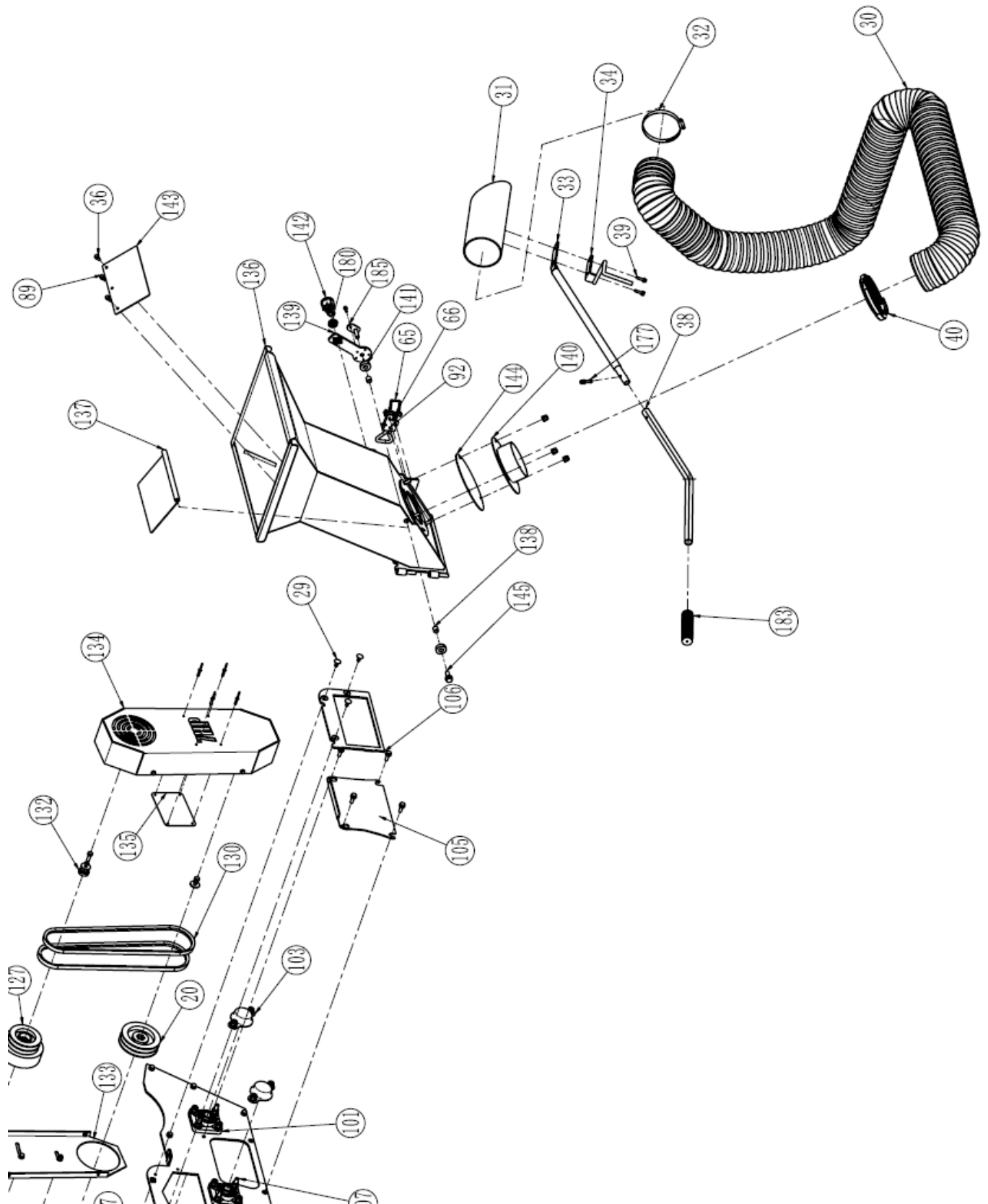


BBC31 PARTS DRAWING



This exploded perspective view illustrates the assembly of a mechanical device. The components are numbered as follows: 2, 16, 179, 18, 95, 96, 97, 99, 100, 103, 127, 132, 133, 134, 135, 136, 137, 139, 142, 143, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942,

BBC31 PARTS DRAWING





BIG BEAR POWER

GX COMMERCIAL LLC
4301 S VALLEY VIEW BLVD. STE 10 AND 11
LAS VEGAS, NV 89103

EXTENDED 5YR LIMITED WARRANTY

- GX COMMERCIAL LLC WARRANTS THIS WOODCHIPPER FOR MANUFACTURES DEFECTS FOR 5 YEARS BOTH ENGINE AND CHASSIS AS FOLLOWS.
- GX COMMERCIAL LLC WILL PROVIDE PARTS AND LABOR WITHIN THE FIRST 30 DAYS AT NO COST TO THE ORIGINAL PURCHASER. GX COMMERCIAL LLC WILL REPAIR OR REPLACE AT OUR OPTION THE DEFECTIVE EQUIPMENT.
- AFTER 30 DAYS GX COMMERCIAL LLC WILL PROVIDE TO THE ORIGINAL PURCHASER FOR 5 YEARS REPLACEMENT PARTS FOR DEFECTIVE PARTS INCLUDING ENGINE AND ALL CHASSIS COMPONENTS.
- ITEMS NOT COVERED BY THIS WARRANTY AFTER 30 DAYS ARE REPAIR LABOR, BLADES, BELTS, TIRES, CUTTING BARS, NUTS AND BOLT HARDWARE AND BATTERIES.
- CUSTOMER ACCEPTED FREIGHT DAMAGE IS NOT COVERED BY WARRANTY.
- MINOR SCRATCH AND DENTS FROM SHIPPING IS NOT COVERED.
- RATO ENGINES ARE 1 YEAR WARRANTY, A 4 YEAR OEM COMMERCIAL EXTENDED WARRANTY IS INCLUDED AT NO EXTRA COST. GX COMMERCIAL LLC WILL REPAIR OR REPLACE RATO ENGINES AT OUR CHOICE FROM 5 YEARS FROM PURCHASE DATE. WARRANTY NOT TRANFERABLE.
- THIS EXTENDED WARRANTY APPLIES TO BOTH RESIDENTIAL AND COMMERCIAL USE OF THE EQUIPMENTS BASED ON PROPER MAINTENACE AND RECORDS OF PROVEN REGULAR SCHEDULED OIL CHANGES, FILTERS AND SPARK PLUG MAINTENACE. NON-INTENDED USE OR MISUSE OF EQUIPMENT IS NOT COVERED.
- DEFECTIVE EQUIPMENT UNDER WARRANTY IS REQUIRED TO BE REPAIRED BY A LICENCED MECHANIC. PARTS WILL BE SENT TO THE REPAIR SHOP OF THE CUSTOMERS CHOICE AT NO COST DURING THE WARRANTY PERIOD.