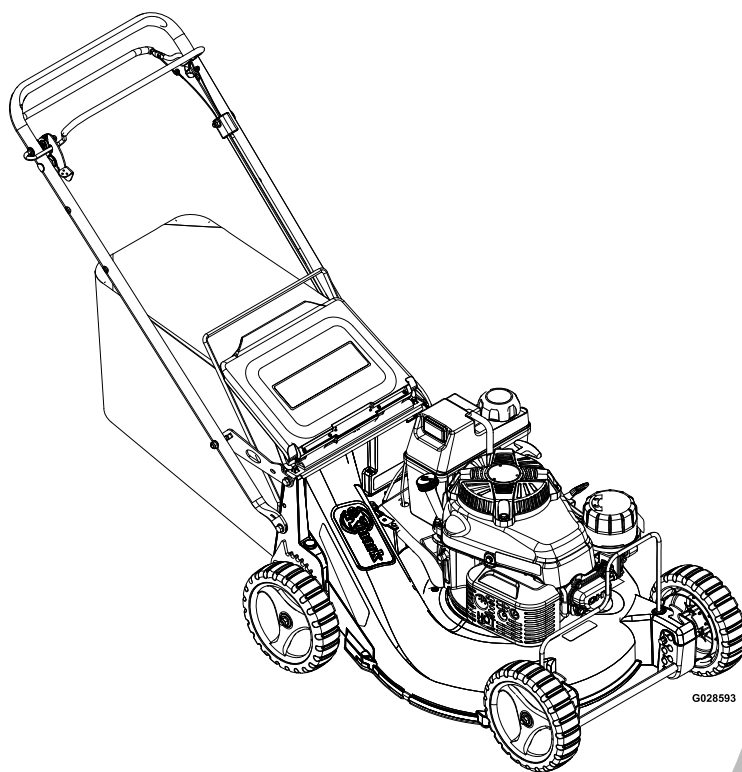




# COMMERCIAL 21

Model No. ECS180GKA21000—Serial No. 316000000 and Up

Picture below may not reflect actual product.



# Parts Manual

# Ordering Replacement Parts

To order replacement parts, please supply the part number, the quantity, and the description of each part desired.

## Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

## Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form a:b. The a represents the reference number of the entire service assembly and the b represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part individually. Reference numbers of this type appear in illustration and in parts lists.

## Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

# List of Abbreviations

|                                              |                                                |                                          |
|----------------------------------------------|------------------------------------------------|------------------------------------------|
| <b>AR:</b> as required                       | <b>HLH:</b> hex lag head                       | <b>PTH:</b> phillips truss head          |
| <b>ASM:</b> assembly                         | <b>HOC:</b> height-of-cut                      | <b>PTO:</b> power-take-off               |
| <b>BBC:</b> blade brake control              | <b>HP:</b> high pressure                       | <b>RH:</b> right hand                    |
| <b>BHTF:</b> button head thread forming      | <b>HSBH:</b> hex socket button head            | <b>ROPS:</b> roll-over protection system |
| <b>CARR:</b> carriage                        | <b>HSFH:</b> hex socket flat head              | <b>RRB:</b> rear roller brush            |
| <b>CCW:</b> counter clockwise                | <b>HSH:</b> hex socket head                    | <b>SFH:</b> slotted fillister head       |
| <b>CW:</b> clockwise                         | <b>HWH:</b> hex washer head                    | <b>SHH:</b> slotted hex head             |
| <b>DEG:</b> degrees                          | <b>HWHTF:</b> hex washer head thread forming   | <b>SHWH:</b> slotted hex washer head     |
| <b>DPA:</b> Dual Point Adjustment            | <b>HYD:</b> hydraulic                          | <b>SPH:</b> slotted pan head             |
| <b>ECM:</b> electronic control module        | <b>LH:</b> left hand                           | <b>SQH:</b> square head                  |
| <b>EXT:</b> external                         | <b>LP:</b> low pressure                        | <b>SRH:</b> slotted round head           |
| <b>FH:</b> flat head                         | <b>LPG:</b> Liquefied Petroleum Gas            | <b>STD:</b> standard                     |
| <b>GA:</b> gauge                             | <b>NI:</b> nylon insert                        | <b>TAP:</b> self tapping                 |
| <b>HD:</b> heavy-duty                        | <b>NPTF:</b> national pipe thread fine         | <b>TTH:</b> torx truss head              |
| <b>HF:</b> hex flange                        | <b>PFH:</b> phillips flat head                 |                                          |
| <b>HH:</b> hex head                          | <b>PPH:</b> phillips pan head                  |                                          |
| <b>HHF:</b> hex head flange                  | <b>PPHTF:</b> phillips pan head thread forming |                                          |
| <b>HHFTF:</b> hex head flange thread forming | <b>PRH:</b> phillips round head                |                                          |
| <b>HJ:</b> hex jam                           |                                                |                                          |

# Touch Up Paint

Exmark black touch up spray paint – gloss black.

Exmark red touch up paint (spray paint – P/N 1-850337 - .6 oz liquid bottle – P/N 103-9140).

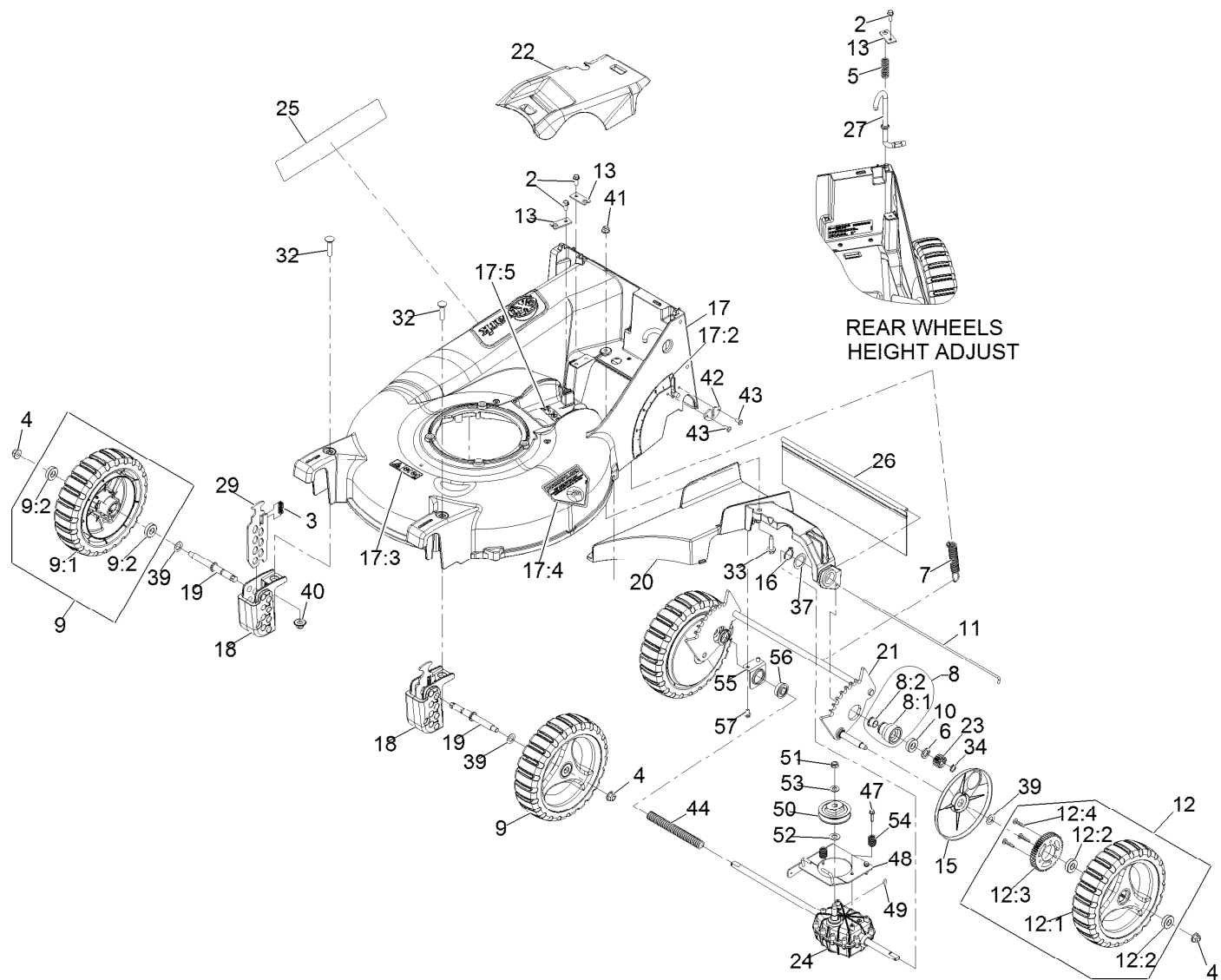


If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

## Contents

|                               |    |
|-------------------------------|----|
| Deck and Wheel Assembly ..... | 4  |
| Bag and Door Assembly .....   | 6  |
| Handle Assembly .....         | 8  |
| Blade Assembly .....          | 10 |
| Engine Assembly .....         | 12 |

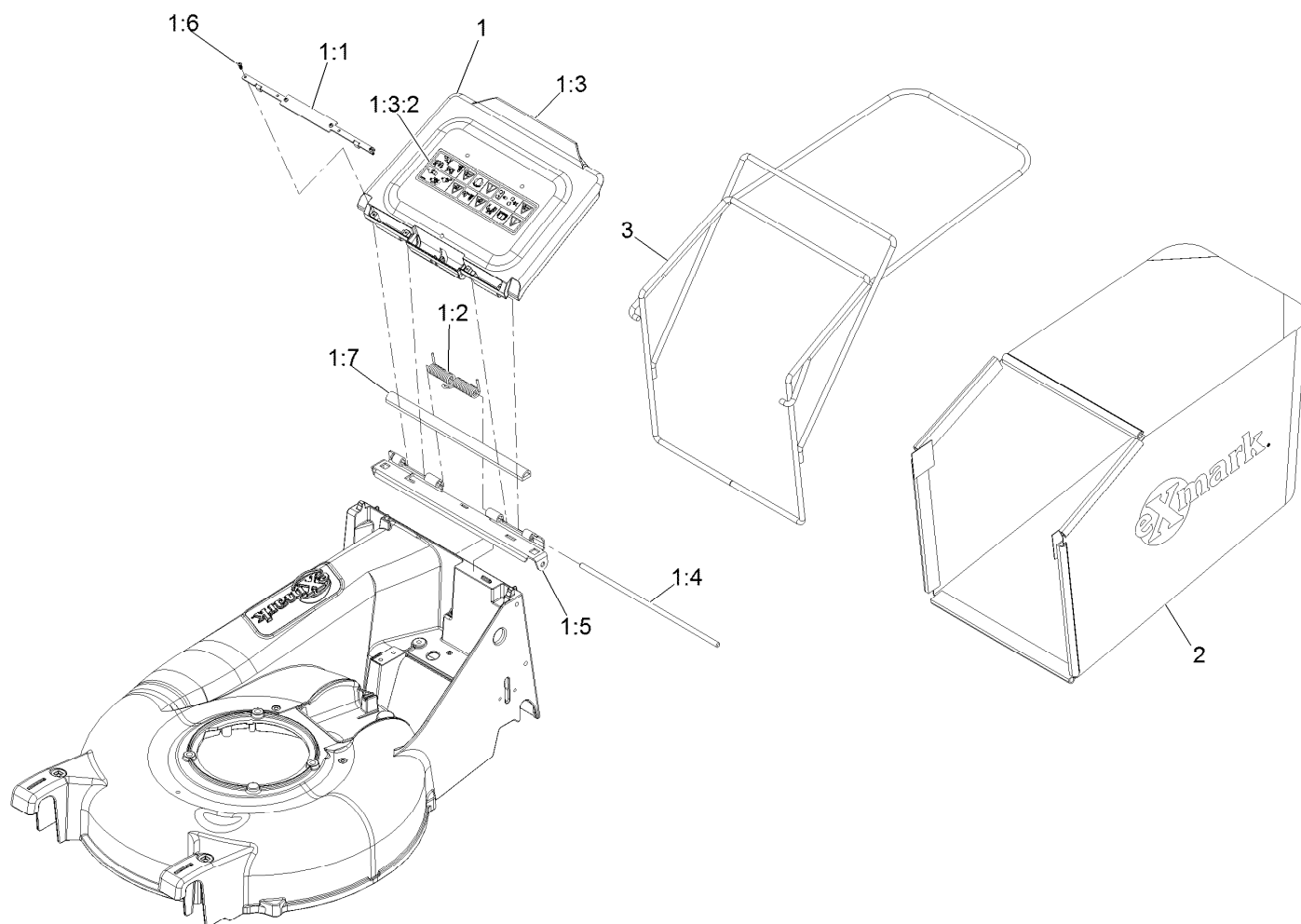
## Deck and Wheel Assembly



## Deck and Wheel Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>                | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>            |
|-------------|--------------------|-------------|-----------------------------------|-------------|--------------------|-------------|-------------------------------|
| 2           | 32144-85           | 2           | Screw-HWH 1/4-20 X .62            | 21          | 109-9312           | 1           | Wld,Rear Axle P21             |
| 3           | 109-7258           | 2           | Spring-Compression                | 22          | 109-9324           | 1           | Cover,Belt                    |
| 4           | 104-8301           | 4           | Nut-Nyloc 3/8-16 Flg              | 23          | 110-9417           | 2           | Gear-Pinion, 15T              |
| 5           | 109-7694           | 1           | Spring-Compression                | 24          | 116-9906           | 1           | Transmission-HD, 4.5/1        |
| 6           | 108-5059           | 2           | Spacer-Bushing                    | 25          | 126-6885           | 1           | Decal-Comm 21 S-Series        |
| 7           | 109-7692           | 1           | Spring-Extension                  | 26          | 116-0252           | 1           | Shield-Trailing P21           |
| 8           | 116-6172           | 2           | Housing ASM                       | 27          | 116-0329           | 1           | Rod-Height Adj P21            |
| 8:1         | 116-6171           | 1           | Housing-Bearing                   | 29          | 109-9292           | 2           | Plate, Front Height           |
| 8:2         | 116-4279           | 1           | Bearing-Flange                    | 32          | 109-8449           | 2           | Bolt-Carriage 3/8-16 X 1 1/2  |
| 9           | 109-8016           | 2           | Wheel And Tire ASM                | 33          | 32144-49           | 1           | Screw-HWH 5/16-18 1 1/4<br>Tf |
| 9:1         | 109-8033           | 1           | 9-Inch Wheel ASM                  | 34          | 32151-61           | 2           | Ring-Retaining                |
| 9:2         | 109-8020           | 2           | Bearing-Ball                      | 37          | 74-1810            | 2           | Washer                        |
| 10          | 109-8020           | 2           | Bearing-Ball                      | 39          | 36-4780            | 4           | Washer                        |
| 11          | 109-8025           | 1           | Rod,Shield                        | 40          | 109-6658           | 2           | Nut-Nyloc 3/8-16 Flg          |
| 12          | 109-8032           | 2           | ASM,Rear Wheel 9"                 | 41          | 104-8300           | 1           | Nut-Nyloc 5/16-18 Flg         |
| 12:1        | 109-8033           | 1           | 9-Inch Wheel ASM                  | 42          | 116-2221           | 1           | Plate,Wear                    |
| 12:2        | 109-8020           | 2           | Bearing-Ball                      | 43          | 114439             | 2           | Rivet                         |
| 12:3        | 109-7264           | 1           | Gear                              | 44          | 126-2335           | 1           | Cover-Shaft-Drive             |
| 12:4        | 27-6260            | 3           | Screw-Drive                       | 47          | 27-0220            | 3           | Screw-Special                 |
| 13          | 109-8441           | 2           | Bracket,Mount                     | 48          | 116-3539-03        | 1           | Transmission Plate ASM        |
| 15          | 109-9287           | 2           | Cover,Gear                        | 49          | 3257-1             | 1           | Key-Woodruff 1/8 X 1/2        |
| 16          | 32151-36           | 2           | Ring-Retaining                    | 50          | 39-6740            | 1           | Pulley                        |
| 17          | 116-2006           | 1           | Deck W/Decals                     | 51          | 3296-5             | 1           | Nut-Nyloc 3/8-24 Thin         |
| 17:2        | 116-1922           | 1           | Decal-Height Of Cut               | 52          | 36-4792            | 1           | Washer-Thrust                 |
| 17:3        | 130-9670           | 1           | Decal-Warning, Blade              | 53          | 3256-45            | 1           | Washer-Flat                   |
| 17:4        | 94-8072            | 1           | Decal-Danger                      | 54          | 116-1438           | 2           | Spring,Compression            |
| 17:5        | 119-0217           | 1           | Decal-Danger                      | 55          | 120-7008           | 1           | Mount-Bearing                 |
| 18          | 109-9302           | 2           | Block,Front Quadrant              | 56          | 104-8699           | 1           | Bearing-Ball                  |
| 19          | 116-0994           | 2           | Axle-Wheel                        | 57          | 9266714            | 2           | Screw-HWH 1/4-20 X .50        |
| 20          | 116-9646-01        | 1           | Bracket-Transmission And<br>Chute |             |                    |             |                               |

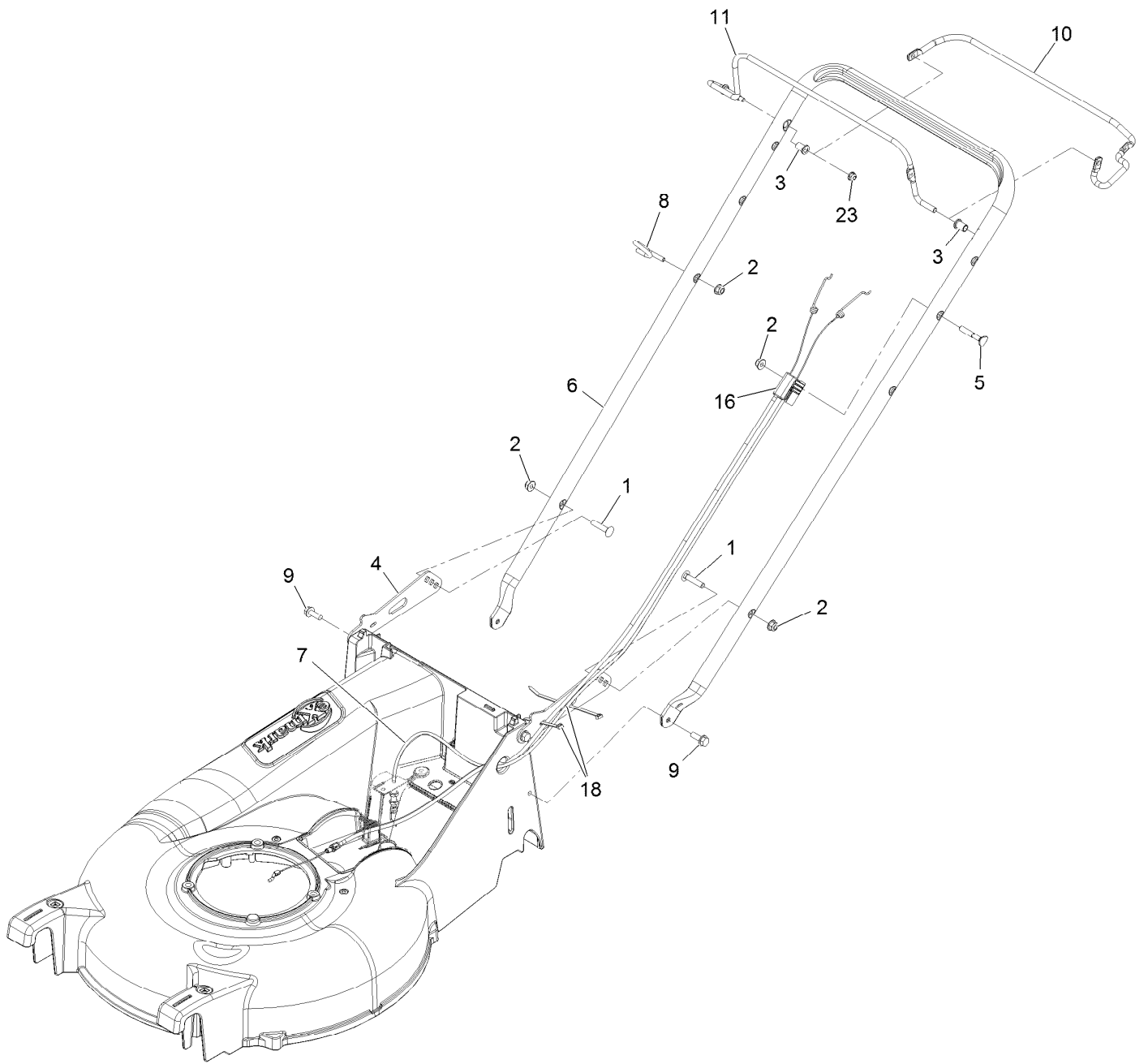
# Bag and Door Assembly



## Bag and Door Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       |
|-------------|--------------------|-------------|---------------------|-------------|--------------------|-------------|--------------------------|
| 1           | 126-6086           | 1           | Door ASM            | 1:5         | 126-2636-03        | 1           | Bracket-Door Pivot       |
| 1:1         | 126-2628-03        | 1           | Plate, Door Cover   | 1:6         | 363-1596           | 4           | Screw-PPHTF #6-19 X 7/16 |
| 1:2         | 126-2627           | 1           | Spring-Plastic Door | 1:7         | 126-5438           | 1           | Seal-Epdm Foam Bulb      |
| 1:3         | 126-4200           | 1           | ASM-Door & Decal    | 2           | 126-2630           | 1           | Bag-21 Grass             |
| 1:3:2       | 116-7583           | 1           | Decal-Warning       | 3           | 126-2631-03        | 1           | Wld-Bag Frame            |
| 1:4         | 126-2635           | 1           | Pin-Door Pivot      |             |                    |             |                          |

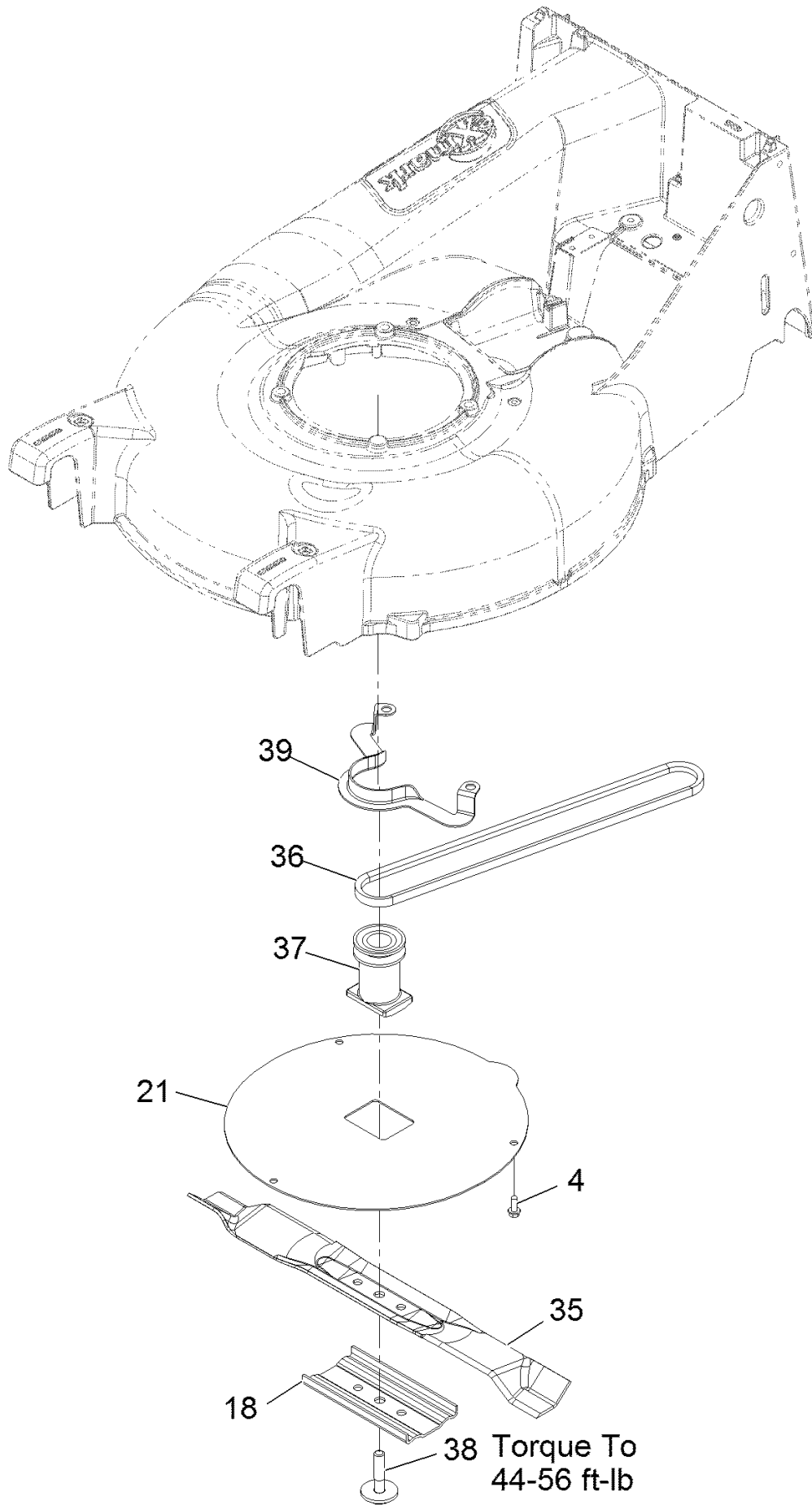
# Handle Assembly



## Handle Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>            | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>             |
|-------------|--------------------|-------------|-------------------------------|-------------|--------------------|-------------|--------------------------------|
| 1           | 33-5790            | 2           | Bolt-Carriage 5/16-18 X 1 1/2 | 8           | 116-1056           | 1           | Guide,Rope                     |
| 2           | 104-8300           | 4           | Nut-Nyloc 5/16-18 Flg         | 9           | 32144-41           | 4           | Screw-HWH 3/8-16 X 7/8 Taptite |
| 3           | 116-1478           | 2           | Bushing-Handlebar             | 10          | 116-7797           | 1           | Bail-Drive                     |
| 4           | 109-9323-03        | 2           | Bracket,Handlebar             | 11          | 116-2252           | 1           | Bail,Opc/BBC                   |
| 5           | 112-8876           | 1           | Bolt-Carriage 5/16-18 X 2     | 16          | 116-0905           | 1           | Cable-Zone Kawasaki            |
| 6           | 116-0119-03        | 1           | Handlebar-P21                 | 18          | 614249             | 2           | Tie-Cable                      |
| 7           | 116-9701           | 1           | Cable, Drive                  | 23          | 104-7201           | 1           | Nut-Nyloc 1/4-20 Flg           |

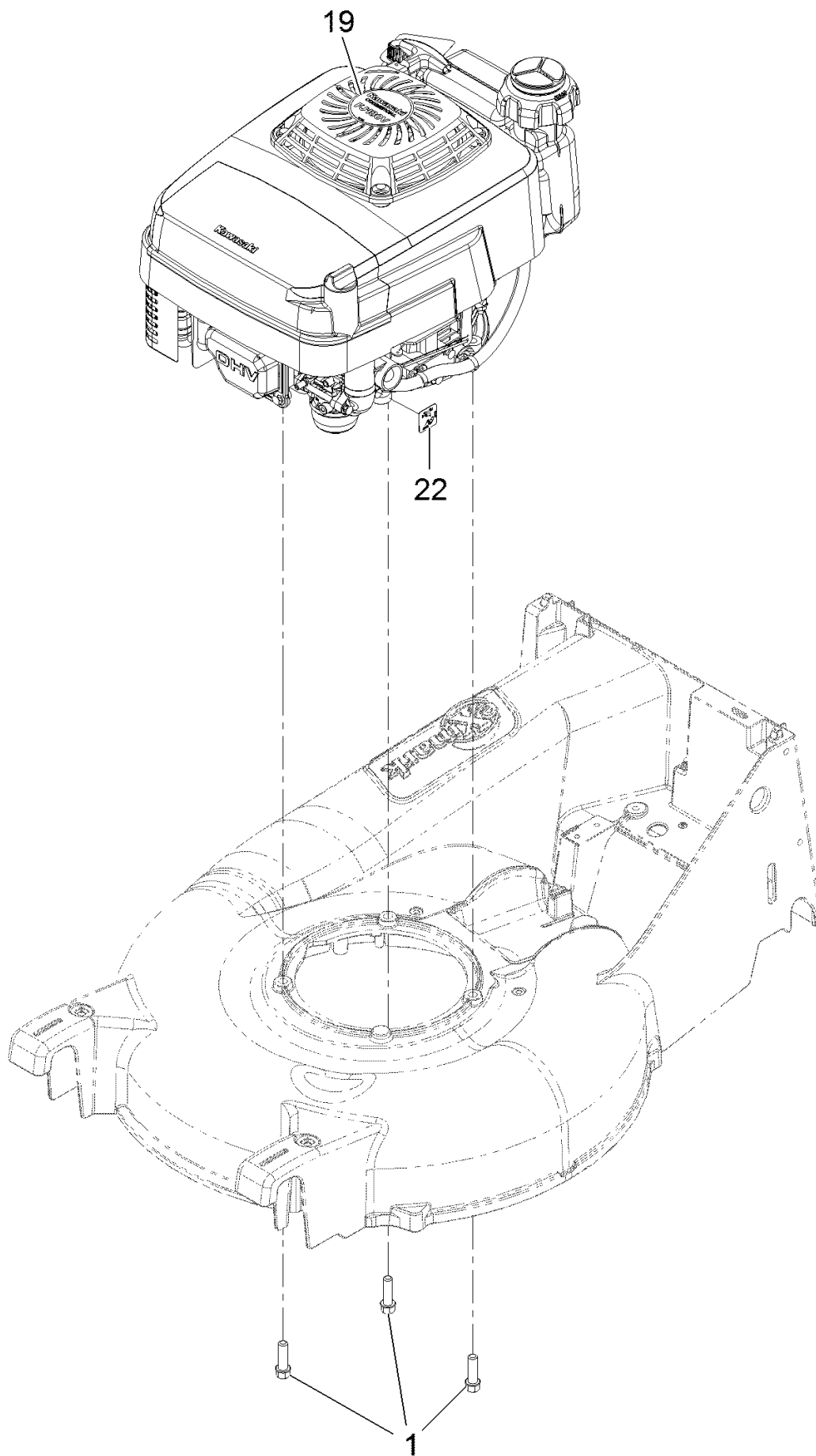
# Blade Assembly



## Blade Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|-------------------------|-------------|--------------------|-------------|--------------------|
| 4           | 32144-85           | 3           | Screw-HWH 1/4-20 X .62  | 36          | 109-7299           | 1           | Belt,3L P21 Drive  |
| 18          | 108-3766-03        | 1           | Support-Blade           | 37          | 109-7257           | 1           | Blade-Adapter      |
| 21          | 116-3503-03        | 1           | Cover-As                | 38          | 116-0005           | 1           | Bolt-Blade, Sem    |
| 35          | 116-4500           | 1           | Blade-Medium Lift, 20.5 | 39          | 108-8110-03        | 1           | Guide-Belt         |

# Engine Assembly



## Engine Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>                  |
|-------------|--------------------|-------------|-------------------------------------|
| 1           | 95-1727            | 3           | Screw-HWH 3/8-16 X 1 1/4<br>Taptite |
| 19          | 107-4201           | 1           | Decal-Recoil                        |
| 22          | 125-8403           | 1           | Decal-Primer                        |

**Notes:**



# MAXIMIZE THE PERFORMANCE OF YOUR EXMARK MACHINE.



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Exmark now offers a family of engine oil viscosities to perform well in any environment. Each viscosity has the same synthetic formulation to give you what you need in punishing conditions. We designed each grade to the highest quality, making it ideal even for diesel applications. Coupled with Exmark Premium Fuel Treatment, we have the performance products to make your machine hum.

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## EXMARK ACCESSORIES AND OPTIONS\*

### MID-MOUNT RIDING ACCESSORIES AND OPTIONS

|                                    |                                 |
|------------------------------------|---------------------------------|
| CUSTOM RIDE SEAT SUSPENSION SYSTEM | OPERATOR CONTROLLED DISCHARGE   |
| FULL SUSPENSION SEAT               | SUN SHADE                       |
| DECK LIFT ASSIST KIT               | TRASH CONTAINER                 |
| HITCH KIT                          | TURF STRIPER                    |
| LIGHT KIT                          | ULTRA VAC COLLECTION SYSTEM     |
| 12V POWER PORT                     | ULTRA VAC QUICK DISPOSAL SYSTEM |
| MICRO-MULCH SYSTEM                 |                                 |

### OUT-FRONT RIDING ACCESSORIES AND OPTIONS

|                                    |                                 |
|------------------------------------|---------------------------------|
| CUSTOM RIDE SEAT SUSPENSION SYSTEM | SNOW BLADE                      |
| DUAL-TAIL WHEEL                    | SNOWBLOWER                      |
| FLOOR PAN EXTENDER                 | SUN SHADE                       |
| HITCH KIT                          | TRASH CONTAINER                 |
| LIGHT KIT                          | ULTRA VAC COLLECTION SYSTEM     |
| MICRO-MULCH SYSTEM                 | ULTRA VAC QUICK DISPOSAL SYSTEM |
| ROLL OVER PROTECTION SYSTEM (ROPS) | WEATHER CAB                     |

### WALK-BEHIND ACCESSORIES AND OPTIONS

|                    |              |
|--------------------|--------------|
| GRASS CATCHER      | TURF STRIPER |
| MICRO-MULCH SYSTEM | STANDON      |

\*Some accessories and options not available for some models.

Place Model No. and Serial No.  
Label Here (Included in the Literature  
Pack) or Fill in Below

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

Engine Model No. and Spec. No. \_\_\_\_\_

Engine Serial No. (E/No) \_\_\_\_\_

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