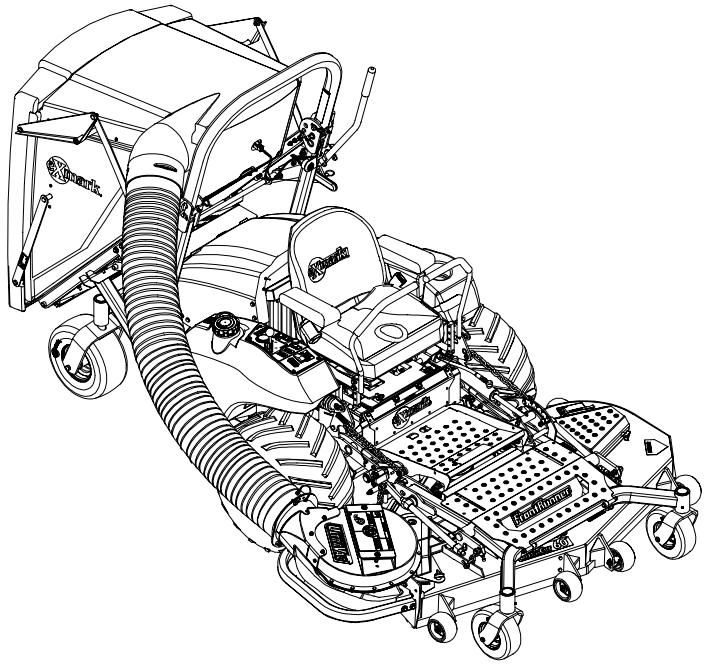
For FrontRunner Ultra Vac
Serial Nos.
600,000 & Higher
(to fit Units 600,000 & Higher)

eXmark® MFG. CO. INC.

PARTS MANUAL



ULTRA VAC™

FRONTRUNNER™ MODEL

OBSOLETE

CONGRATULATIONS on the purchase of your new Exmark equipment. This product has been carefully designed and manufactured to give you a maximum amount of dependability and years of trouble-free operation. If additional information is needed, or should you require trained mechanic service, contact your authorized Exmark equipment dealer or distributor. If you need to order replacement parts from your dealer, always give the model number and serial number of your equipment as well as the part number, description and quantity of the part needed.

The Serial No. plate is located on the right front tube of the hopper assembly. For ease of ordering and reference, we suggest that you record the information requested in the following identification table.

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

Model No. _____

Serial No. _____

Date Purchased _____

Part No. 109-4922 Rev. A

EXMARK PARTS PLUS® PROGRAM

EFFECTIVE DATE: September 1, 1995



Program

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!!

How the Program Works

1. If dealer does not have part in stock for a "down" unit at the time of request by customer, the dealer contacts his distributor by 1:00 p.m., local time, and requests Exmark Parts Plus® shipment of six (6) line items or less.

2. Distributor ships part(s) to dealer or customer, as requested by dealer, same day, overnight UPS Distributor bills dealer for part and freight charges where applicable.

3. If distributor does not have the part(s) in stock to satisfy Exmark Parts Plus® order, he contacts Exmark by 3:00 p.m., central time, with an Exmark Parts Plus® order of six (6) line items or less.

4. If order is received by 3:00 p.m. central time, Exmark ships part(s) direct to dealer or customer, as requested by distributor, same day, overnight UPS Exmark bills the distributor for parts and shipping charges, where applicable.

5. The customer pays for the part and freight if it is shipped under the Exmark Parts Plus® and if it arrives in accordance to the program.

6. Who pays for the part and freight if it fails to arrive overnight in accordance to the program?

   A. Under any circumstance the customer does not pay.

   B. If the part does not arrive overnight due to:

      1. The dealer not submitting the Exmark Parts Plus® order to his Exmark distributor by 1:00 p.m., the dealer pays for the part and freight.

      2. The Distributor being unable to ship the part the same day or not submitting the Exmark Parts Plus® order to Exmark by 3:00 p.m., central time, the Distributor pays for the part and freight.

      3. Exmark being unable to ship the part and the Exmark parts order is received by 3:00 p.m., central time, Exmark pays for the part and freight.

      4. If the part does not arrive overnight due to the shipper (UPS), the shipper pays for the freight and Exmark pays for the part.

OBSOLETE

The following restrictions apply -- The Exmark Parts Plus® Program is available only through participating Exmark Dealers and applies only to orders submitted on this program Monday through Thursday. Parts Plus service is available only in the contiguous 48 United States. UPS has initiated a Saturday delivery program to many areas of the continental United States and can be requested for an overnight shipment on Friday to be delivered Saturday. The next day air charge, plus the Saturday delivery fee will be the responsibility of the purchaser. Exmark Mfg. will assume no responsibility for Saturday delivery shipments. To qualify, all Exmark Parts Plus® orders must be received by Exmark by 3:00 p.m., central time. Orders must be six (6) line items or less. Exclusions from the Exmark Parts Plus® Program are: Any wholegood or accessory in its entirety, engines and engine replacement parts, 5-speed Peerless transmissions and 5-speed transaxles, hydraulic or hydrostatic wheel motors, cutter decks and engine decks or any item exceeding United Parcel Service size and weight restrictions.

Due to UPS restrictions, aerosol spray paint is considered a hazardous material and cannot be shipped via UPS next day or Second Day Air.

Exmark Manufacturing stocks a limited supply of parts for transaxles, pumps and wheel motors. These parts can be ordered for Next Day Air shipment but will not be guaranteed per the Parts Plus Program.

WARNING

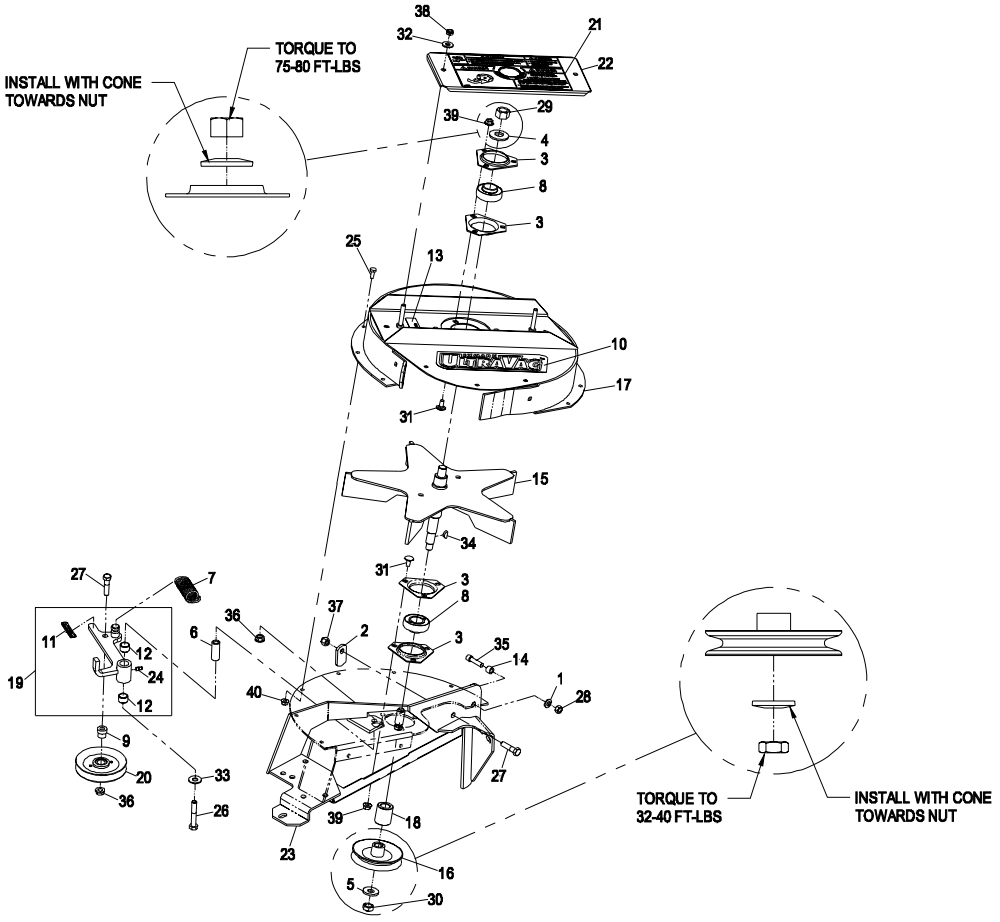
READ OPERATOR'S MANUAL BEFORE
OPERATING OR SERVICING EXMARK EQUIPMENT

TABLE OF CONTENTS

Description	Page
Blower Assembly	3-4
Decals	10
Door Linkage	7
Electrical Diagram	11
Fill Sensor	9
FRCK Kit	8
Hopper Door	5
Hopper and Frame	6

OBSOLETE

BLOWER ASSEMBLY



Item	Part No.	Description	Qty.
1	1-303334	Washer, Spring Disk 5/16	1
2	1-353054	Latch, Grass Catcher	1
3	1-513013	Housing, Flange	4
4	1-513208	Washer, Spring Disk 5/8	1
5	1-513435	Washer, Spring Disk 1/2	1
6	1-603044	Bushing, Idler Pivot	1
7	1-653331	Spring	1
8✚	1-653346	Bearing	2
9	1-653367	Hub, Spacer	1
10	1-653557	Decal, Ultravac	1
11	1-653558	Decal, Hot Sheave	1
12	1-653600	Bearing	2
13	98-5954	Decal-Danger	1
14	103-0126	Bushing	1
15	103-0455	Wld, Impeller	1
16✚	103-0456	Sheave, Blower	1
17	103-3593	Wld, Upper Housing	1
18	103-0460	Spacer	1
19	103-0448	Asm, Idler W/Bearings, Decal, & Zerk	1
20	103-0483	Idler, Inside	1
21	109-5890	Decal, Warning	1

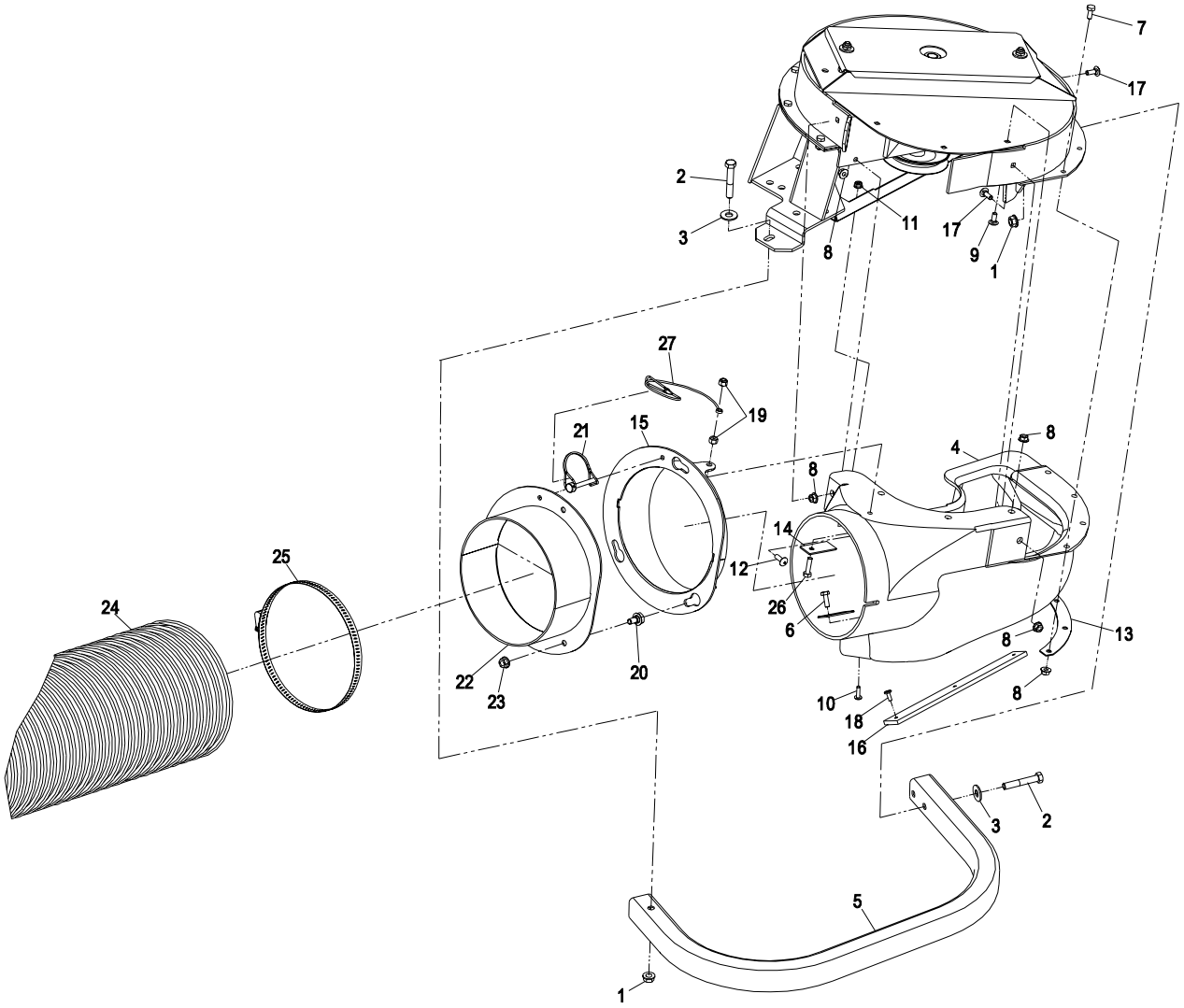
Item	Part No.	Description	Qty.
22	103-3583	Cover, Bearing	1
23	109-1133-03	Wld, Blower Mount	1
24	302-19	Zerk, 1/4-28 Str	1
25	321-3	Screw, HH 1/4-20 x 5/8	6
26	323-11	Screw, HH 3/8-16 x 2 1/4	1
27	323-8	Screw, HH 3/8-16 x 1 1/2	2
28	3217-6	Nut, Hex 5/16-18	1
29	3219-6	Nut, Hex 5/8-18	1
30	3220-5	Nut, Jam 1/2-20	1
31	3230-18	Bolt, Carriage 5/16-18 x 5/8	6
32	3256-3	Washer, 5/16 Std	2
33	3256-4	Washer, 3/8 Std	1
34	3257-32	Key, Woodruff 3/16 x 5/8	1
35	3274-18	Screw, SH 5/16-18 x 1 1/4	1
36	3290-357	Nut, Whizlock 3/8-16	2
37	3296-39	Nut, Nyloc 3/8-16	1
38	3296-47	Nut, Nyloc 5/16-18 Thin	2
39	32128-20	Nut, Whizlock 5/16-18	6
40	32128-33	Nut, Whizlock 1/4-20	6
41	109-5278	Asm, Blower FRUVD	1

OBSOLETE

Exmark black touch up spray paint – gloss black.

✚ Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade antisieze) on bore of sheave and bearings.

BLOWER ASSEMBLY – (cont.)



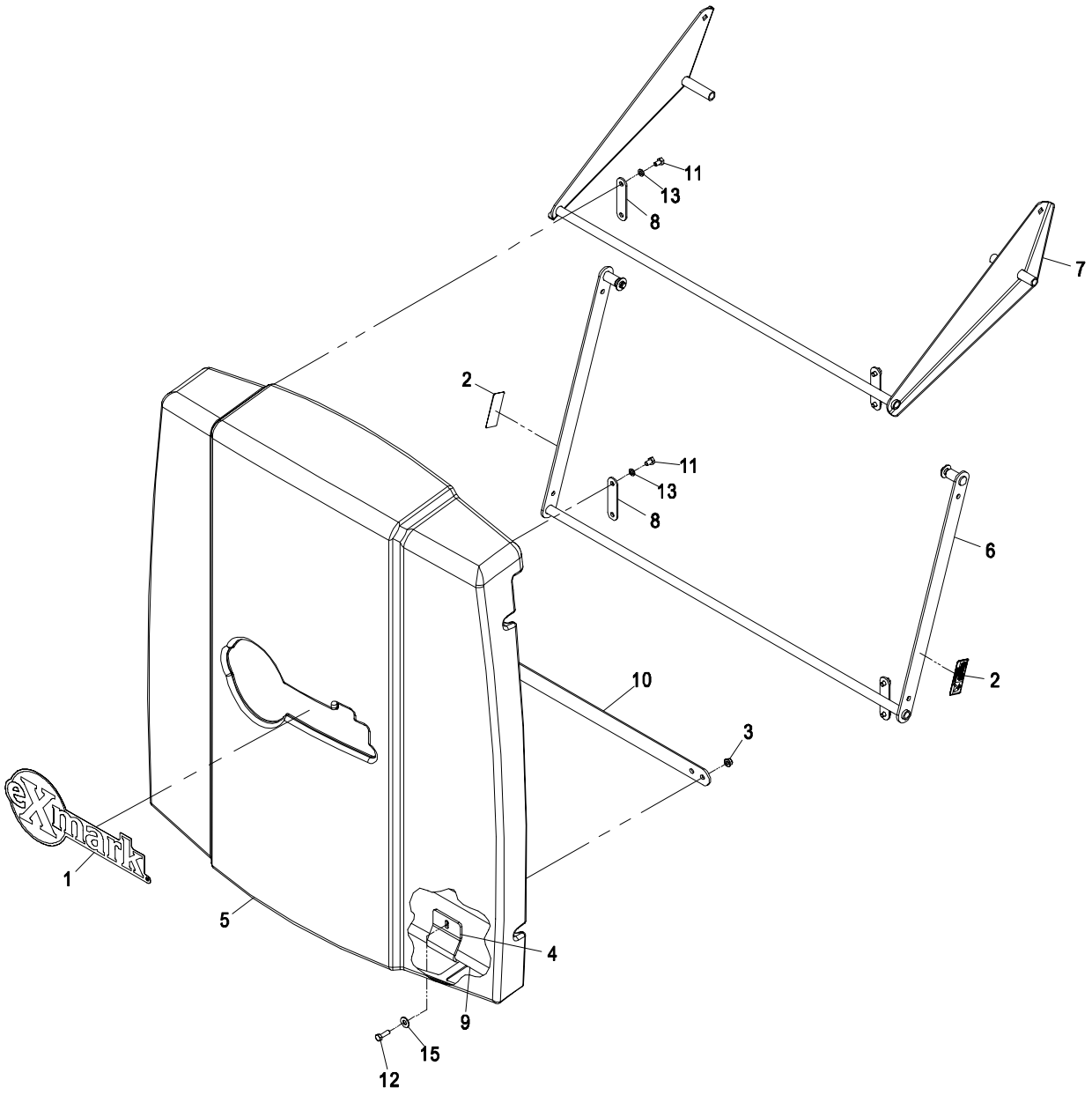
Item	Part No.	Description	Qty.
1	3290-357	Nut, Whizlock 3/8-16	3
2	323-11	Screw, HH 3/8-16 x 2 1/4	3
3	3256-4	Washer, 3/8 Std	3
4▲	103-4759	Chute, Blower	1
5	103-0458-01	Bumper	1
6	321-4	Screw, HH 1/4-20 x 3/4	1
7	321-3	Screw, HH 1/4-20 x 5/8	4
8	32128-33	Nut, Whizlock 1/4-20	11
9	3229-11	Bolt, Carriage 1/4-20 x 5/8	3
10	1-803075	Screw, Truss Head #10-24 X 3/4	3
11	3290-148	Nut, Whizlock #10-24	3
12	1-803076	Screw, PPH 1/4-20 x 3/4	2
13	103-0461-03	Plate, Blower Backing	1
14	103-3093	Plate, Backing	2

Item	Part No.	Description	Qty.
15	109-4976-03	Wld, FRUVD Blower Adapter	1
16	103-4751-03	Plate, Reinforcement Large	1
17	3229-1	Bolt, Carriage 1/4-20 x 3/4	2
18	114439	Rivet	3
19	3296-42	Nut, Nyloc 1/4-20	3
20	37-8771	Screw, Shoulder 5/16-18 x 5/8	3
21	100-1663	Pin	1
22	109-4973-03	Wld, FRUVD Hose Adapter	1
23	32128-20	Nut, Whizlock 5/16-18	3
24	109-4918	Hose, FRUVD	1
25	VAC11400	Clamp - Hose, 8"	1
26	321-8	Screw, HH 1/4-20 x 1 1/4	1
27	100-9385	Lanyard	1

OBSOLETE

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)
▲ Includes items, 4, 16, & 18

HOPPER DOOR



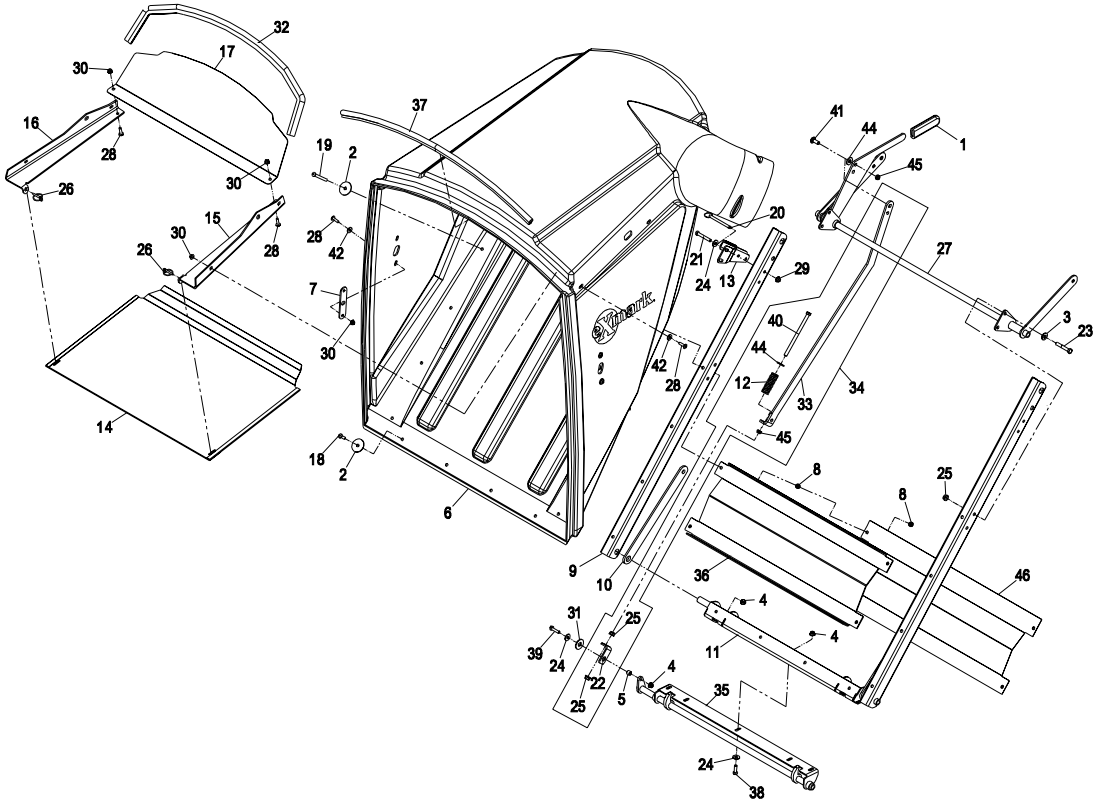
OBSOLETE

Item	Part No.	Description	Qty.
1	103-6024	Decal, Exmark Logo	1
2	103-8444	Decal, Pinch Point	2
3	104-8300	Nut, Nyloc 5/16-18 Flg	2
4	109-5553-03	Plate, FRUVD Door Latch	2
5	109-5267	Door,12 Bushel Hopper	1
6	109-5266	Wld, Fr Door Lower Pivot	1
7	109-4660-03	Wld, Fr Door Upper Pivot	1
8	109-4671-03	Strap, Fr Door Pivot	4

Item	Part No.	Description	Qty.
9	109-5554-03	Tube, FRUVD Door	1
10	109-5561-03	Plate, FRUVD Door Reinforcement	1
11	322-1	Screw, HH 5/16-18 x 1/2	8
12	322-5	Screw, HH 5/16-18 x 1	2
13	3253-4	Washer, Lock 5/16	8
14	3256-26	Washer, 1/2 SAE	2
15	3256-3	Washer, 5/16 Std	2

Exmark black touch up spray paint – gloss black.

HOPPER AND FRAME



Item	Part No.	Description	Qty.
1	1-633268	Grip, Brake Lever	1
2	1-653036	Washer	12
3	98-5975	Washer, Spring Disk 3/8	4
4	104-8300	Nut, Nyloc 5/16-18 Flg	14
5	103-0126	Bushing	1
6	109-5282	Hopper,12 Bushel	1
7	109-4664-03	Plate, Fr Lower Pivot Backing	2
8	3296-47	Nut, Nyloc 5/16-18 Thin	8
9	109-4737-03	Tube, Fr Hopper Frame	1
10	109-4738-03	Link, Fr Hopper Pivot	1
11	109-6043-03	Wld, Fr Hopper Frame	1
12	109-2230	Spring, Compression	1
13	109-4768-03	Bracket, Fr Handle Storage	1
14	109-4805-03	Screen, Fr Hopper	1
15	109-4806-03	Angle, RH Fr Screen Supt	1
16	109-4807-03	Angle, LH Fr Screen Supt	1
17	109-4808-03	Baffle, Fr Hopper Screen	1
18	109-4872	Screw, HSPH 5/16-18 x 1	4
19	109-4873	Screw, HSPH 5/16-18 x 3	8
20	105-1647	Pin, Hitch Cotterless	1
21	322-11	Screw, HH 5/16-18 x 2 1/4	2
22	109-0130	Link, Brake	1
23	323-11	Screw, HH 3/8-16 x 2 1/4	4

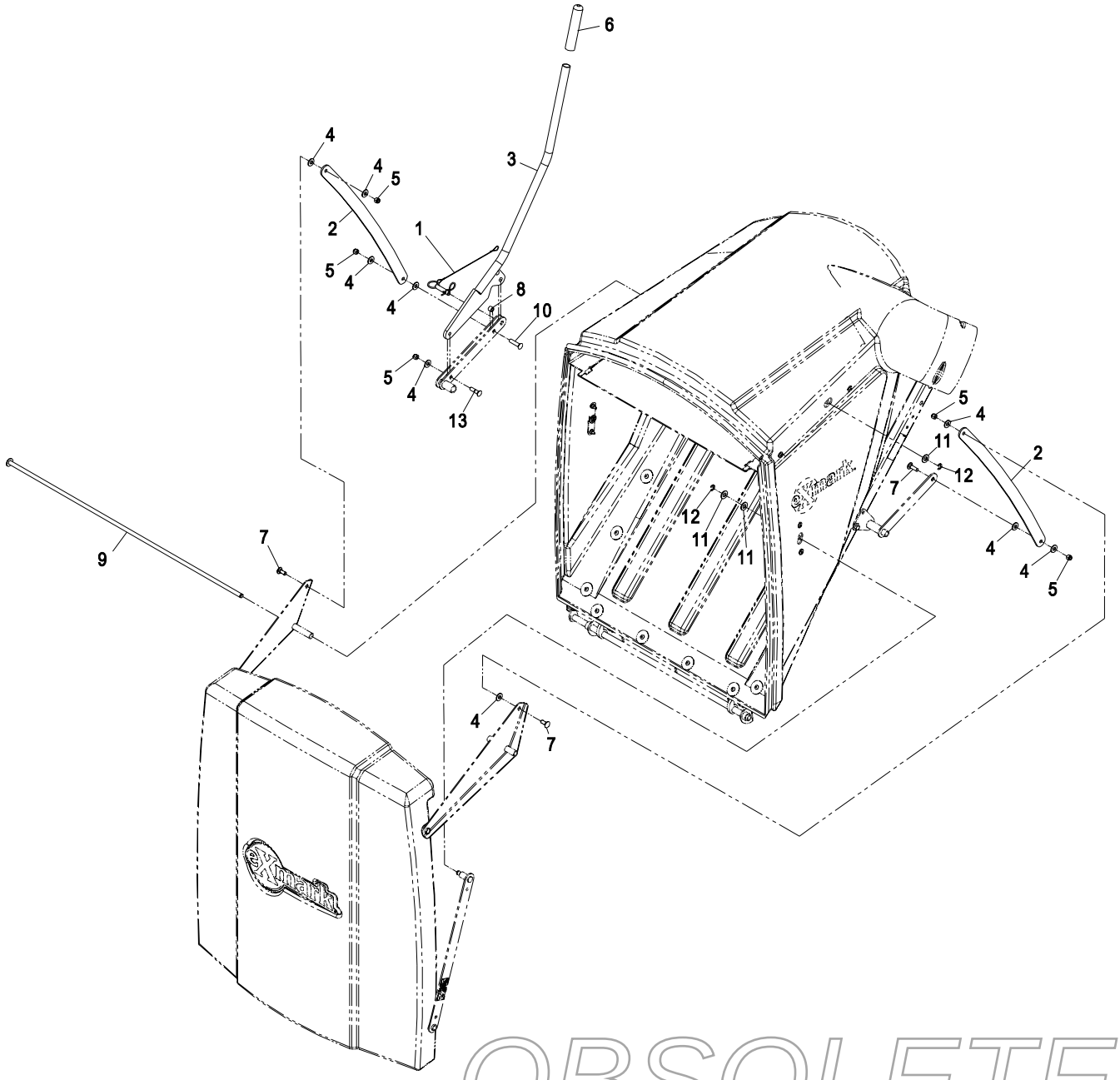
Item	Part No.	Description	Qty.
24	3256-3	Washer, 5/16 Std	8
25	3290-357	Nut, Whizlock 3/8-16	6
26	3290-495	Pin-Klik	2
27	109-4667-03	Wld ,Fr Door Handle	1
28	32105-32	Screw, Truss HD 1/4-20 x 1	10
29	32128-20	Nut, Whizlock 5/16-18	2
30	32128-33	Nut, Whizlock 1/4-20	10
31	3256-6	Washer-Flat, .563X1.375	1
32	109-5852	Seal, Trim 38.00	1
33	109-5545-03	Link, Fruvd Latch	1
34	109-5546	Asm, Fruvd Latch Link	1
35	109-5552-03	Wld, Fruvd Latch	1
36	109-6006-03	Shield, Heat	1
37	109-5854	Seal, Side Trim 34.50 X .19	1
38	322-5	Screw, HH 5/16-18 x 1	5
39	322-6	Screw, HH 5/16-18 x 1 1/4	1
40	323-58	Bolt, HH 3/8-16 x 6 Tap	1
41	3231-22	Bolt, Carriage 3/8-16 x 1	1
42	3256-2	Washer, 1/4 Std	8
43	3256-26	Washer, 1/2 SAE	2
44	3256-4	Washer, 3/8 Std	2
45	3296-59	Nut, Nyloc 3/8-16 Thin	2
46	109-6007-03	Shield ,Heat	1

OBSOLETE

Exmark black touch up spray paint – gloss black

✚ Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade antisieze) on shaft under pivot tubes.

DOOR LINKAGE



OBSOLETE

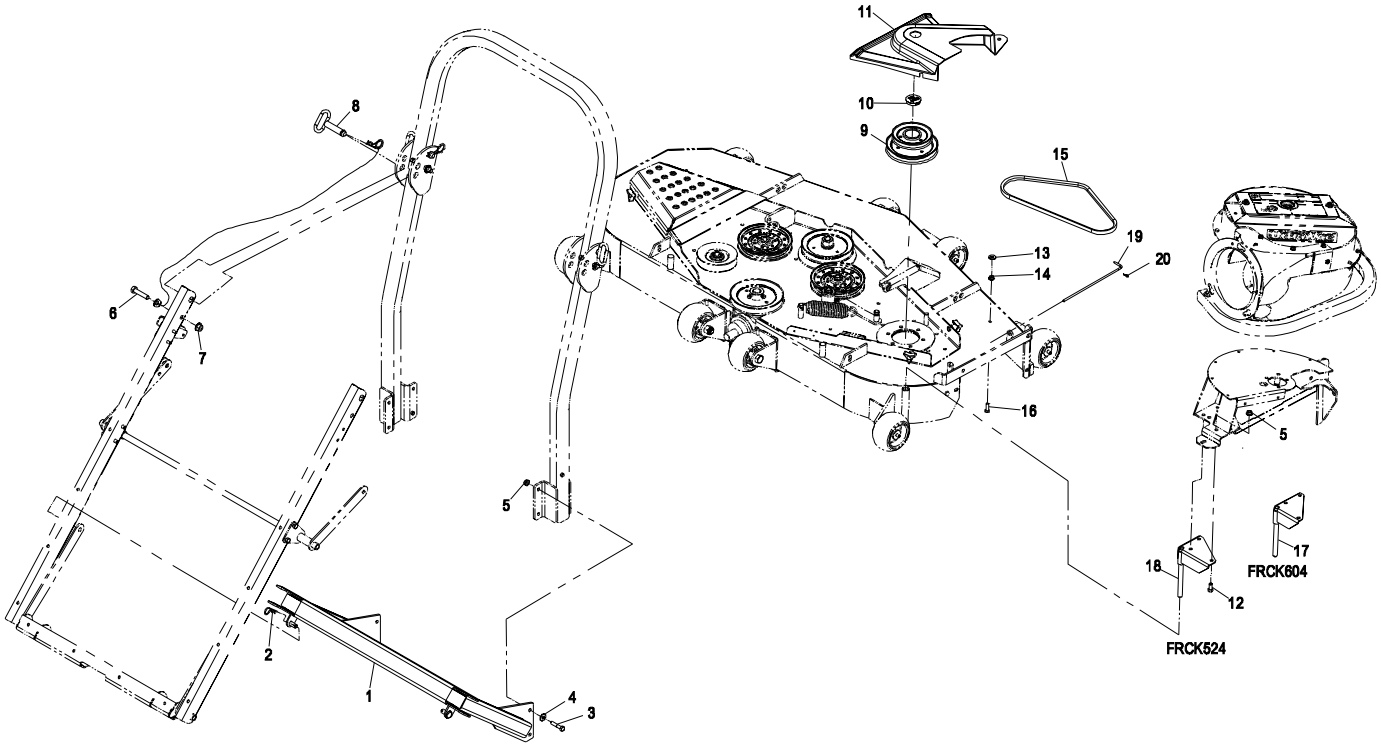
Item	Part No.	Description	Qty.
1	1-633097	Pin-Hitch W/Laynard	1
2	109-4665-03	Link, Fr Door Connect	2
3	109-4680-03	Wld, Fr Door Handle	1
4	3256-4	Washer, 3/8 Std	10
5	3296-39	Nut, Nyloc 3/8-16	6
6	109-5282	Grip, Handle	1
7	3231-22	Bolt, Carriage 3/8-16 x 1	3

Item	Part No.	Description	Qty.
8	103-1918	Bushing	1
9✚	109-4709	Pin, Fr Upper Door Pivot	1
10	3231-29	Bolt, Carriage 3/8-16 x 1 3/4	1
11	3256-26	Washer, 1/2 SAE	6
12	32120-47	Ring, Retaining	4
13	3231-4	Bolt, Carriage 3/8-16 x 1 1/2	1

Exmark black touch up spray paint – gloss black

✚ Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade antisieze) on upper pivot pin.

FRCK KIT



Item	Part No.	Description	Qty.
1✚	109-4748-03	Wld, Hopper Support	1
2✚	1-806005	Hairpin, Cotter	2
3✚	323-9	Screw, HH 3/8-16 x 1 3/4	4
4✚	98-5975	Washer, Spring Disk 3/8	4
5✚	3290-357	Nut, Whizlock 3/8-16	7
6✚	325-9	Screw, HH 1/2-13 x 2 1/4	2
7✚	32128-23	Nut, Hex 1/2-13 Side Lock	2
8✚	103-4553	Asm, Rops Fold Pin	2
9	103-2792	Jackshaft, 60"	1
	103-2797	Jackshaft, 52"	1
10	103-1279	Plug, Black Nylon 1.75	1

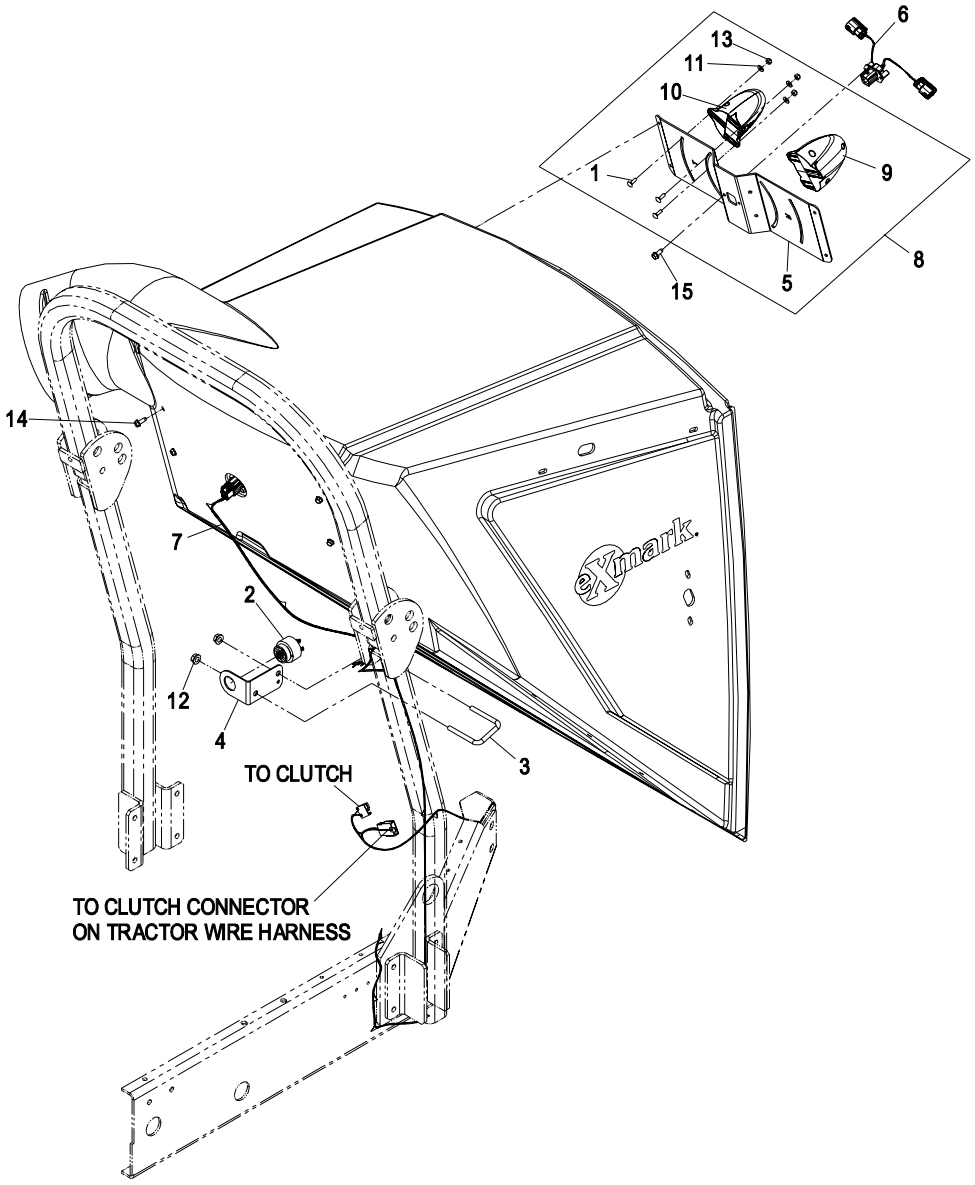
Item	Part No.	Description	Qty.
11	109-4847	Cover, Belt 60"	1
	109-4846	Cover, Belt 52"	1
12	323-4	Screw, HH 3/8-16 x 3/4	3
13	3256-3	Washer, 5/16 Std	1
14	32128-20	Nut, Whizlock 5/16-18	1
15	103-0866	Belt, Blower Drive 60"	1
	109-4948	Belt, Blower Drive 52"	1
16	322-5	Screw, HH 5/16-18 x 1	1
17	103-0445-03	Wld, Mount Pin 60"	1
18	109-4841-03	Wld, Mount Pin 52"	1
19	109-3458	Pin, Chute Pivot	1
20	1-806003	Pin, Hair	1

OBSOLETE

Exmark black touch up spray paint – gloss black.

✚ Not included in FRCK Kit, comes as part of Hopper Assembly.

FILL SENSOR



OBSOLETE

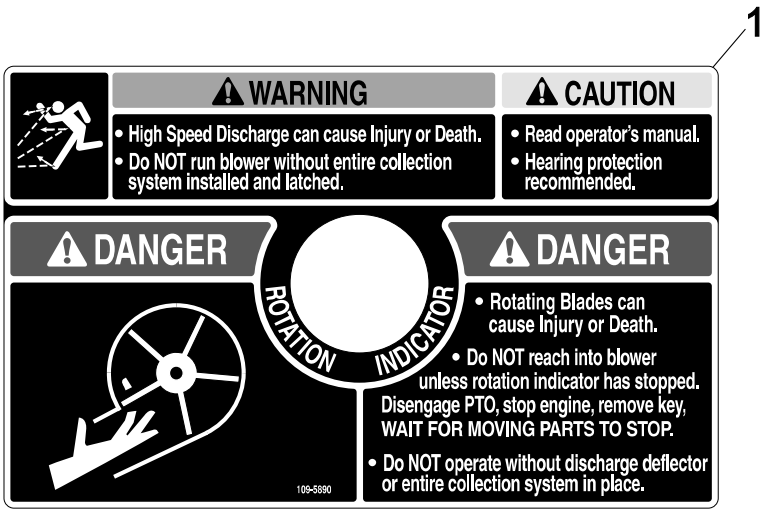
Item	Part No.	Description	Qty.
1	1-807533	Bolt, Carriage #10-24 x 5/8	6
2	103-0205	Alarm, Dual Tone 12VDC	1
3	109-2394	U-Bolt, 3/8-16 X 1.0	1
4	109-5304-03	Bracket, Alarm Mounting	1
5	109-5308-03	Plate, Fill Sensor Mounting	1
6◆	109-5338	Harness, Hopper	1
7◆	109-5340	Harness, Tractor	1
8	109-5342	Asm, Sensor Plate	1

Item	Part No.	Description	Qty.
9	110-8016	Asm-Sensor, Bag (Rx)	1
10	110-8018	Asm-Sensor, Bag (Tx)	1
11	3256-14	Washer, #10 Std	6
12	3290-357	Nut, Whizlock 3/8-16	2
13	3296-2	Nut, Nyloc #10-24	6
14	32144-10	Screw, HWH 1/4-20 x .62	4
15	3290-500	Screw, PPH #10-24 x 5/8	2

Exmark black touch up spray paint – gloss black.

◆ Use dielectric grease on all wiring harness connectors.

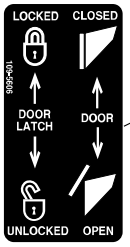
DECALS

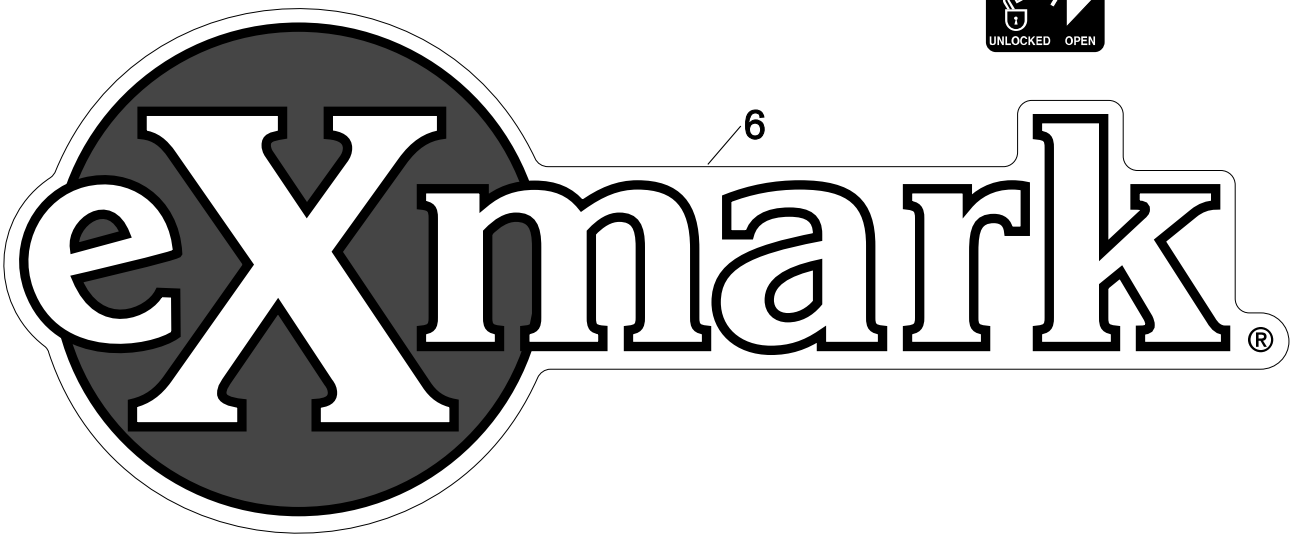












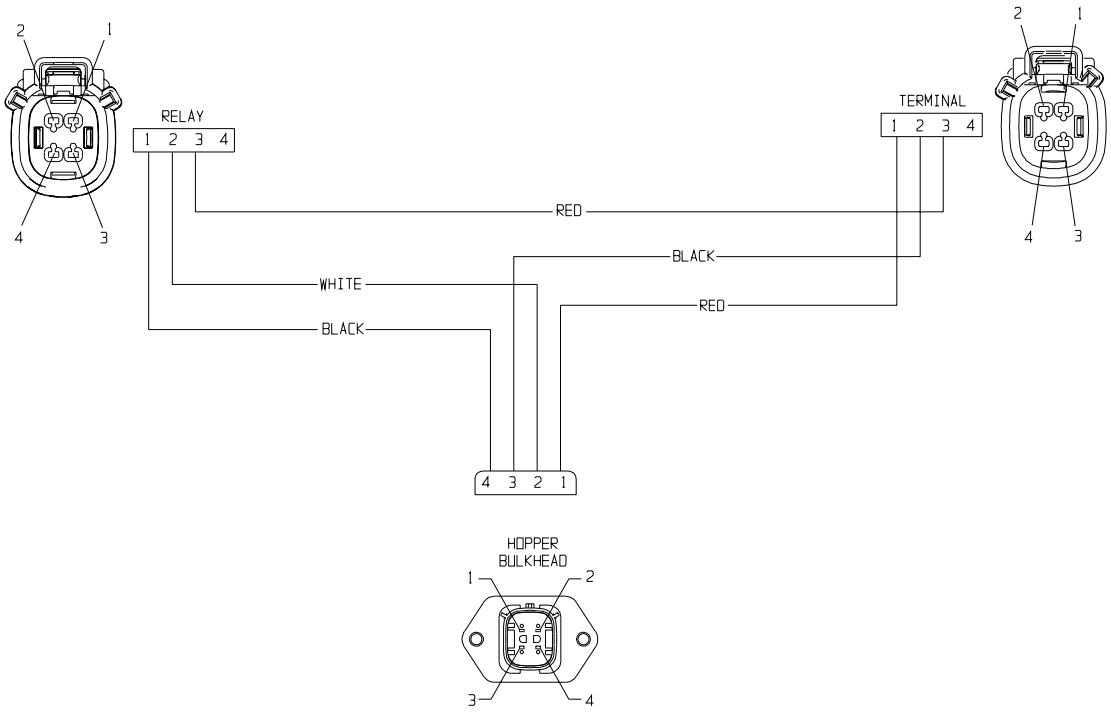
OBSOLETE

Item	Part No.	Description	Qty.
1	109-5890	Decal, Warning	1
2	103-8444	Decal, Pinch Point	2
3	98-5954	Decal, Missing Cover	1
4	1-653558	Decal, Hot Sheave	1

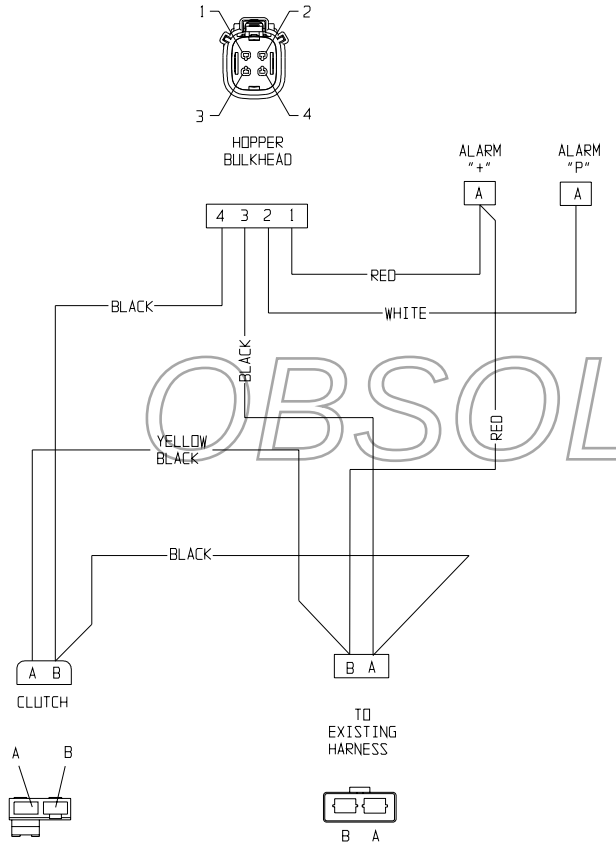
Item	Part No.	Description	Qty.
5	109-5606	Decal, FRUVD Door Operation	1
6	103-6024	Decal, Exmark	1
	109-5691	Kit, Decal	

ELECTRICAL DIAGRAM

HOPPER HARNESS



TRACTOR HARNESS



OBSOLETE

NOTES

OBSOLETE

NOTES

OBSOLETE

SERVICE RECORD

Date	Description of Work Done	Service Done By

OBSOLETE

SEE EXMARK'S COMPLETE LINE OF ACCESSORIES

RIDING ACCESSORIES

CUSTOM RIDE SEAT SUSPENSION SYSTEM
DECK LIFT ASSIST KIT
HITCH KIT
LIGHT KIT
MICRO-MULCH SYSTEM
ROLL OVER PROTECTION SYSTEM (ROPS)
SNOW BLADE
SUN SHADE
TRASH CONTAINER
TURF STRIPER
ULTRA VAC COLLECTION SYSTEM
ULTRA VAC QUICK DISPOSAL SYSTEM

WALK BEHIND ACCESSORIES

GRASS CATCHER
MICRO-MULCH SYSTEM
STEERABLE SULKY
SULKY HITCH KIT
TURF STRIPER

OBSOLETE

Check us out on the Web:
www.exmark.com

© 2006
ALL RIGHTS RESERVED

EXMARK MFG. CO. INC.
INDUSTRIAL PARK BOX 808
BEATRICE, NE 68310

PART NO. 109-4922 Rev. A
(402) 223-6300
FAX (402) 223-5489

PRINTED IN U.S.A.

eXmark® MFG. CO.