

**Z-FORCE  
SPECIFICATION SHEETS  
2003-2013**

<b>2003</b>	<b>Specification Sheet</b>	<b>CC</b>
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<b>Z-Force 15</b>	<b>15 H.P. Kawasaki</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2003</b>
<b>Z-Force 18</b>	<b>18 H.P. Intek</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2003</b>

# MODEL: Z-Force 15

# YEAR: 2003

Factory Model Number: 53AA5D2L100

15 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

### GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	600 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

### GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

### ENGINE SPECS:

Make	Kawasaki
Model Series	FH (Vertical)
Model/Type/Spec	FH451V-AS18
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	15 HP
Peak Torque	Not Available
Displacement	30.1 cu in. (494 mL)
Bore	2.68"
Stroke	2.68"

### ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.016"

### CAPACITIES:

Engine Crankcase	1.9 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

### FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

### ENGINE MAINTENANCE PARTS:

Air Filter	KM-11013-7002
Pre Filter	KM-11013-7001
Oil Filter	KM-49065-7010
Fuel Filter	KM-49019-0014
Spark Plug	759-3331
Armature	KM-21171-7013
Points	Not Applicable
Carb Kit	Not Applicable

### TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-50990
Voltage Regulator	KM-21066-7011
Solenoid	725-3001
Muffler	01008424P
Battery	925-1707D
Relays	01002251
P.T.O. Clutch	917-04127

### ENGINE:

Complete Engine	01008415P
Short Block	Not Available
Mini Block	Not Available

### WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

### BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

### YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 18

# YEAR: 2003

Factory Model Number: 53AA5A5L100

18 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	600 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Briggs & Stratton
Model Series	Intek (Vertical)
Model/Type/Spec	407777-0128
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	18 HP
Peak Torque	Not Available
Displacement	40.0 cu in. (656cc)
Bore	2.97"
Stroke	2.89"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.012"

## CAPACITIES:

Engine Crankcase	1-7/8 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	BS-499486S
Pre Filter	BS-273638S
Oil Filter	BS-492932S
Fuel Filter	BS-691035
Spark Plug	759-3336
Armature	BS-691060
Points	Not Applicable
Carb Kit	BS-797890

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-50990
Voltage Regulator	BS-845907
Solenoid	725-3001
Muffler	01008902
Battery	925-1707D
Relays	01002251
P.T.O. Clutch	917-04127

## ENGINE:

Complete Engine	01008883 N.L.A.
Short Block	BS-698172
Mini Block	Not Available

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 42</b>	<b>18.5 H.P. Intek</b>	<b>Single</b>	<b>Dual Hydro</b>	<b>2004</b>
<b>Z-Force 44</b>	<b>20 H.P. Intek</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2004</b>
<b>Z-Force 48</b>	<b>22 H.P. Intek</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2004</b>

# MODEL: Z-Force 42

# YEAR: 2004

Factory Model Number: 53AA5A5G710

18.5 H.P. Hydro Drive  
Electric P.T.O. / 42" Deck

### GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	835 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

### GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 6.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

### ENGINE SPECS:

Make	Briggs & Stratton
Model Series	Intek (Vertical)
Model/Type/Spec	31P777-0115
No. Of Cylinders	1
Horse Power <small>Rated By Manufacturer</small>	18.5 HP
Peak Torque	Not Available
Displacement	30.59 cu in. (501.2cc)
Bore	3.5625"
Stroke	3.0625"

### ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.004" (0.1016 mm)
Valve Lash (Exhaust)	0.006" (0.1524 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.010"-0.014"

### CAPACITIES:

Engine Crankcase	1-7/8 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

### FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

### ENGINE MAINTENANCE PARTS:

Air Filter	BS-795115
Pre Filter	BS-697015
Oil Filter	BS-492932S
Fuel Filter	BS-691035
Spark Plug	759-3336
Armature	BS-492341
Points	Not Applicable
Carb Kit	BS-697241

### TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-50990
Voltage Regulator	BS-794360
Solenoid	725-3001
Muffler	01009837
Battery	925-1707D
Relay	01002251
P.T.O. Clutch	917-04127

### ENGINE:

Complete Engine	BS-31Q777-0036
Short Block	BS-697762
Mini Block	Not Available

### WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

### BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

### YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 44

YEAR: 2004

Factory Model Number: 53AA5A6L710, 53AA5A6L712

20 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	860 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Briggs & Stratton
Model Series	Intek (Vertical)
Model/Type/Spec	406577-0106
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP
Peak Torque	Not Available
Displacement	40.0 cu in. (656cc)
Bore	2.97"
Stroke	2.89"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.012"

## CAPACITIES:

Engine Crankcase	1-7/8 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	BS-499486S
Pre Filter	BS-273638S
Oil Filter	BS-492932S
Fuel Filter	BS-691035
Spark Plug	759-3336
Armature	BS-691060
Points	Not Applicable
Carb Kit	BS-699814

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-50990
Voltage Regulator	BS-845907
Solenoid	725-3001
Muffler	01008902
Battery	925-1707D
Relay	01002251
P.T.O. Clutch	917-04127

## ENGINE:

Complete Engine	BS-445577-3037
Short Block	BS-698172
Mini Block	Not Available

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 48

YEAR: 2004

Factory Model Number: 53AA5A7M710, 53AA5A7M712

22 H.P. Hydro Drive  
Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	875 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 9.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Briggs & Stratton
Model Series	Intek (Vertical)
Model/Type/Spec	407577-0110
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	22 HP
Peak Torque	Not Available
Displacement	40.0 cu in. (656cc)
Bore	2.97"
Stroke	2.89"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.012"

## CAPACITIES:

Engine Crankcase	1-7/8 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	BS-499486S
Pre Filter	BS-273638S
Oil Filter	BS-492932S
Fuel Filter	BS-691035
Spark Plug	759-3336
Armature	BS-691060
Points	Not Applicable
Carb Kit	BS-699814

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-50990
Voltage Regulator	BS-845907
Solenoid	725-3001
Muffler	01008902
Battery	925-1707D
Relay	01002251
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	BS-445577-3037
Short Block	BS-698172
Mini Block	Not Available

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.



<b>Z-Force 44</b>	<b>20 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2005</b>
<b>Z-Force 50</b>	<b>23 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2005</b>

# MODEL: Z-Force 44

# YEAR: 2005-2006

Factory Model Number: 53AA5B6L710, 53AA5B6L712, 53AA5B6L709

20 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	860 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV20S-65610
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	33.3 ft. lbs. @ 2,200 R.P.M
Displacement	38.0 cu in. (624cc)
Bore	3.03"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	Not Applicable
Voltage Regulator	KH-41-403-10-S
Solenoid	KH-25-435-06-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-65610 (N.L.A.)
Short Block	KH-24-522-398
Mini Block	KH-24-782-24

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 50

# YEAR: 2005-2006

Factory Model Number: 53AA5B7P710, 53AA5B7P712, 53AA5B7P709

23 H.P. Hydro Drive  
Electric P.T.O. / 50" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	875 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 9.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV23S-75592
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	40.2 ft. lbs. @ 2,400 R.P.M
Displacement	41.0 cu in. (674cc)
Bore	3.15"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	Not Applicable
Voltage Regulator	KH-41-403-10-S
Solenoid (Delco)	KH-25-435-06-S
Solenoid (Nippondenso)	KH-25-098-11-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-75592
Short Block	KH-24-522-393
Mini Block	KH-24-782-14

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 44</b>	<b>20 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2006</b>
<b>Z-Force 48</b>	<b>20 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2006</b>
<b>Z-Force 50</b>	<b>23 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2006</b>
<b>Z-Force 60</b>	<b>23 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2006</b>
<b>Z-Force 60</b>	<b>23 H.P. Kawasaki</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2006</b>

# MODEL: Z-Force 44

# YEAR: 2005-2006

Factory Model Number: 53AA5B6L710, 53AA5B6L712, 53AA5B6L709

20 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	860 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV20S-65610
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	33.3 ft. lbs. @ 2,200 R.P.M
Displacement	38.0 cu in. (624cc)
Bore	3.03"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	Not Applicable
Voltage Regulator	KH-41-403-10-S
Solenoid	KH-25-435-06-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-65610 (N.L.A.)
Short Block	KH-24-522-398
Mini Block	KH-24-782-24

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 48

YEAR: 2006

Factory Model Number: 53AA5B6V710

20 H.P. Hydro Drive  
Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	684 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	20" x 8.0"-8"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV20S-65610
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	33.3 ft. lbs. @ 2,200 R.P.M
Displacement	38.0 cu in. (624cc)
Bore	3.03"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	Not Applicable
Voltage Regulator	KH-41-403-10-S
Solenoid	KH-25-435-06-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-65610 (N.L.A.)
Short Block	KH-24-522-398
Mini Block	KH-24-782-24

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 50

# YEAR: 2005-2006

Factory Model Number: 53AA5B7P710, 53AA5B7P712, 53AA5B7P709

23 H.P. Hydro Drive  
Electric P.T.O. / 50" Deck

## GENERAL INFO:

Length (Over-All)	69.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	875 lbs. (Ship. Wt.)
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	45.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 9.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV23S-75592
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	40.2 ft. lbs. @ 2,400 R.P.M
Displacement	41.0 cu in. (674cc)
Bore	3.15"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	Not Applicable
Voltage Regulator	KH-41-403-10-S
Solenoid (Delco)	KH-25-435-06-S
Solenoid (Nippondenso)	KH-25-098-11-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-75592
Short Block	KH-24-522-393
Mini Block	KH-24-782-14

## WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 60

# YEAR: 2006

Factory Model Number: 53AA5BBJ710

23 H.P. Hydro Drive  
Electric P.T.O. / 60" Deck

### GENERAL INFO:

Length (Over-All)	78.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	834 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

### GENERAL INFO:

Wheelbase	43.5"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 5"-6"
Rear Wheel Tire Size	23" x 9.5"-12"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

### ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV23S-75592
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	40.2 ft. lbs. @ 2,400 R.P.M
Displacement	41.0 cu in. (674cc)
Bore	3.15"
Stroke	2.64"

### ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

### CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

### FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

### ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

### TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid (Delco)	KH-25-435-06-S
Solenoid (Nippondenso)	KH-25-098-11-S
Muffler	01006566
Battery	925-1707D
P.T.O. Clutch	759-04211

### ENGINE:

Complete Engine	KH-PA-75592
Short Block	KH-24-522-393
Mini Block	KH-24-782-14

### WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

### BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

### YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.



# MODEL: Z-Force 60

# YEAR: 2006

Factory Model Number: 53AA5DBJ709

23 H.P. Hydro Drive  
Electric P.T.O. / 60" Deck

### GENERAL INFO:

Length (Over-All)	78.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	834 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

### GENERAL INFO:

Wheelbase	43.5"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 5"-6"
Rear Wheel Tire Size	23" x 9.5"-12"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

### ENGINE SPECS:

Make	Kawasaki
Model Series	FH (Vertical)
Model/Type/Spec	FH680V-GS07
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP
Peak Torque	Not Available
Displacement	41.19 cu in. (675 mL)
Bore	2.96"
Stroke	2.99"

### ENGINE SPECS:

Idle Speed	1550 R.P.M.
Max. Speed (No Load)	3600 R.P.M.
Max. Speed (Full Load)	3500 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.016"

### CAPACITIES:

Engine Crankcase	1.9 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

### FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

### ENGINE MAINTENANCE PARTS:

Air Filter	KM-11013-7024
Pre Filter	KM-11013-7009
Oil Filter	KM-49065-7010
Fuel Filter	KM-49019-0014
Spark Plug	KM-BPR4ES
Armature	KM-21171-7034
Points	Not Applicable
Carb Kit	Not Applicable

### TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KM-21066-7011
Solenoid	925-3001
Muffler	01009299
Battery	925-1707D
P.T.O. Clutch	02002160P

### ENGINE:

Complete Engine	02001993P
Short Block	Not Available
Mini Block	Not Available

### WARRANTY:

Limited Residential	2 Year
Engine	2 Year
Commercial	1 Year

### BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

### YELLOW POWDERED PAINT CODE -0716

Yellow Paint (11.5 oz. Aerosol)	759-3940
Yellow Paint (Quart)	759-3945
Yellow Paint (.6 oz. Bottle)	759-04055

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 44</b>	<b>20 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2007</b>
<b>Z-Force 50</b>	<b>23 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2007</b>
<b>Z-Force 60</b>	<b>23 H.P. Kawasaki</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2007</b>
<b>Z-Force 60</b>	<b>23 H.P. Command</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2007</b>
<b>Z-Force 60</b>	<b>23 H.P. Kawasaki</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2007</b>

# MODEL: Z-Force 44

YEAR: 2007

Factory Model Number: 17AH3AGL710, 17AH3AGL709

20 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	53.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	602 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV20S-65610
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	33.3 ft. lbs. @ 2,200 R.P.M
Displacement	38.0 cu in. (624cc)
Bore	3.03"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	KH-25-435-06-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-65610 (N.L.A.)
Short Block	KH-24-522-398
Mini Block	KH-24-782-24

## WARRANTY:

Limited Residential	3 Year / 150 Hrs.
Engine	3 Year / 150 Hrs.
P.T.O. Clutch	3 Year / 150 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 50

YEAR: 2007

Factory Model Number: 17AH3AGP710, 17AH3AGP709

23 H.P. Hydro Drive  
Electric P.T.O. / 50" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	60.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	622 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 9.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV23S-75592
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	40.2 ft. lbs. @ 2,400 R.P.M
Displacement	41.0 cu in. (674cc)
Bore	3.15"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid (Delco)	KH-25-435-06-S
Solenoid (Nippondenso)	KH-25-098-11-S
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-PA-75592
Short Block	KH-24-522-393
Mini Block	KH-24-782-14

## WARRANTY:

Limited Residential	3 Year / 150 Hrs.
Engine	3 Year / 150 Hrs.
P.T.O. Clutch	3 Year / 150 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 60

YEAR: 2007

Factory Model Number: 53AA5DBJ709

23 H.P. Hydro Drive  
Electric P.T.O. / 60" Deck

## GENERAL INFO:

Length (Over-All)	78.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	834 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.5"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 5"-6"
Rear Wheel Tire Size	23" x 9.5"-12"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kawasaki
Model Series	FH (Vertical)
Model/Type/Spec	FH680V-GS07
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP
Peak Torque	Not Available
Displacement	41.19 cu in. (675 mL)
Bore	2.96"
Stroke	2.99"

## ENGINE SPECS:

Idle Speed	1550 R.P.M.
Max. Speed (No Load)	3600 R.P.M.
Max. Speed (Full Load)	3500 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.016"

## CAPACITIES:

Engine Crankcase	1.9 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KM-11013-7024
Pre Filter	KM-11013-7009
Oil Filter	KM-49065-7010
Fuel Filter	KM-49019-0014
Spark Plug	KM-BPR4ES
Armature	KM-21171-7034
Points	Not Applicable
Carb Kit	Not Applicable

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KM-21066-7011
Solenoid	925-3001
Muffler	01009299
Battery	925-1707D
P.T.O. Clutch	02002160P

## ENGINE:

Complete Engine	02001993P
Short Block	Not Available
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 150 Hrs.
Engine	3 Year / 150 Hrs.
P.T.O. Clutch	3 Year / 150 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 60

YEAR: 2007

Factory Model Number: 53AA5BBJ710

23 H.P. Hydro Drive  
Electric P.T.O. / 60" Deck

## GENERAL INFO:

Length (Over-All)	78.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	834 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.5"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 5"-6"
Rear Wheel Tire Size	23" x 9.5"-12"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Command (Vertical)
Model/Type/Spec	CV23S-75592
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	40.2 ft. lbs. @ 2,400 R.P.M
Displacement	41.0 cu in. (674cc)
Bore	3.15"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M
Valve Lash (Intake)	Hydraulic
Valve Lash (Exhaust)	Hydraulic
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-24-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-24-050-13-S
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid (Delco)	KH-25-435-06-S
Solenoid (Nippondenso)	KH-25-098-11-S
Muffler	01006566
Battery	925-1707D
P.T.O. Clutch	759-04211

## ENGINE:

Complete Engine	KH-PA-75592
Short Block	KH-24-522-393
Mini Block	KH-24-782-14

## WARRANTY:

Limited Residential	3 Year / 150 Hrs.
Engine	3 Year / 150 Hrs.
P.T.O. Clutch	3 Year / 150 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 60

YEAR: 2007

Factory Model Number: 17AI3AGJ710, 17AI3AGJ709

23 H.P. Hydro Drive  
Electric P.T.O. / 60" Deck

## GENERAL INFO:

Length (Over-All)	78.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	834 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.5"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 6"-5"
Rear Wheel Tire Size	20" x 10.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-4.0 mph

## ENGINE SPECS:

Make	Kawasaki
Model Series	FH (Vertical)
Model/Type/Spec	FH680V-GS07
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP
Peak Torque	Not Available
Displacement	41.19 cu in. (675 mL)
Bore	2.96"
Stroke	2.99"

## ENGINE SPECS:

Idle Speed	1550 R.P.M.
Max. Speed (No Load)	3600 R.P.M.
Max. Speed (Full Load)	3500 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.008"-0.016"

## CAPACITIES:

Engine Crankcase	1.9 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 30	737-3029
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KM-11013-7024
Pre Filter	KM-11013-7009
Oil Filter	KM-49065-7010
Fuel Filter	KM-49019-0014
Spark Plug	KM-BPR4ES
Armature	KM-21171-7034
Points	Not Applicable
Carb Kit	Not Applicable

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KM-21066-7011
Solenoid	925-3001
Muffler	02003472
Battery	925-1707D
P.T.O. Clutch	02002160P

## ENGINE:

Complete Engine	02001993P
Short Block	Not Available
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 150 Hrs.
Engine	3 Year / 150 Hrs.
P.T.O. Clutch	3 Year / 150 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 44</b>	<b>20 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2008</b>
<b>Z-Force 48 FAB</b>	<b>23 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2008</b>
<b>Z-Force 48 FAB</b>	<b>25 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2008</b>
<b>Z-Force 50</b>	<b>23 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2008</b>



# MODEL: Z-Force 44

# YEAR: 2008-2009

Factory Model Number: 17AH3AGL710, 17AH3AGL709

20 H.P. Hydro Drive

Factory Model Number: 17AF3AGL010

Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	53.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	602 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV810S-0010
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005086P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

# MODEL: Z-Force 48 FAB

# YEAR: 2008

Factory Model Number: 17AF3AGV010, 17AF3AGV210, 17AF3AGV710

25 H.P. Hydro Drive

Factory Model Number: 17AF3AGV009

Electric P.T.O. / 48" Deck

### GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	60.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	648 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

### GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

### ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV830S-0011
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	25 HP (18.6 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

### ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

### CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

### FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

### ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

### TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

### ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-02
Mini Block	Not Available

### WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

### BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

### YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 48 FAB

# YEAR: 2008-2009

Factory Model Number: 17AF3AGV010, 17AF3AGV210, 17AF3AGV710

23 H.P. Hydro Drive

Factory Model Number: 17AF3AGV009

Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	60.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	648 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV820S-0011
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 50

# YEAR: 2008-2009

Factory Model Number: 17AF3AGP010

23 H.P. Hydro Drive  
Electric P.T.O. / 50" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	60.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	622 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 9.5"-8"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV820S-0011
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 44</b>	<b>20 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2009</b>
<b>Z-Force 48 FAB</b>	<b>23 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2009</b>
<b>Z-Force 50</b>	<b>23 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2009</b>

# MODEL: Z-Force 44

# YEAR: 2008-2009

Factory Model Number: 17AH3AGL710, 17AH3AGL709

20 H.P. Hydro Drive

Factory Model Number: 17AF3AGL010

Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	53.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	602 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 8.5"-8
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV810S-0010
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005086P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 48 FAB

# YEAR: 2008-2009

Factory Model Number: 17AF3AGV010, 17AF3AGV210, 17AF3AGV710

23 H.P. Hydro Drive

Factory Model Number: 17AF3AGV009

Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	60.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	648 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV820S-0011
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 50

# YEAR: 2008-2009

Factory Model Number: 17AF3AGP010

23 H.P. Hydro Drive  
Electric P.T.O. / 50" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	60.0"
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	622 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 4"-5"
Rear Wheel Tire Size	18" x 9.5"-8"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-7.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV820S-0011
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	78.8 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-24-050-13-S
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.



<b>Z-Force 44 F</b>	<b>20 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2010</b>
<b>Z-Force 48 F</b>	<b>22 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2010</b>
<b>Z-Force 54 F</b>	<b>23 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2010</b>

# MODEL: Z-Force 44 F

YEAR: 2010

Factory Model Number: 17AE3AGF010

20 H.P. Hydro Drive  
Electric P.T.O. / 44" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	602 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	11" x 6"-5"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV710S-0035
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	20 HP (14.9 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	KH-24-757-46-S
Carb Kit	

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV710-0035
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 48 F

# YEAR: 2010

Factory Model Number: 17BF3AGV010

22 H.P. Hydro Drive  
Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	722 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV715-3025
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	22 HP (16.4 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV715-3025
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 54 F

# YEAR: 2010

Factory Model Number: 17BF3AGX010

23 H.P. Hydro Drive  
Electric P.T.O. / 54" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	740 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 10"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV720-3044
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	2.0 qts. Transaxles/Reservoir (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 48</b>	<b>22 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2011</b>
<b>Z-Force 54</b>	<b>23 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2011</b>

# MODEL: Z-Force 48

# YEAR: 2011-2013

Factory Model Number: 17BF3AGV010

22 H.P. Hydro Drive  
Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	722 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV715-3030
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	22 HP (16.4 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	70.3 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV715-3030
Short Block	KH-32-522-07
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 54 F

YEAR: 2011

Factory Model Number: 17BF3AGX010

23 H.P. Hydro Drive  
Electric P.T.O. / 54" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	740 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 10"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV720-3044
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	23 HP (17.2 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	70.3 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	02005087P
Short Block	KH-32-522-03
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 48</b>	<b>22 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2012</b>
<b>Z-Force 54</b>	<b>24 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2012</b>



# MODEL: Z-Force 48

# YEAR: 2011-2013

Factory Model Number: 17BF3AGV010

22 H.P. Hydro Drive  
Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	722 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV715-3030
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	22 HP (16.4 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	70.3 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV715-3030
Short Block	KH-32-522-07
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 54 F

# YEAR: 2012-2013

Factory Model Number: 17BF3AGX010

24 H.P. Hydro Drive  
Electric P.T.O. / 54" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	740 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 10"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV725-3020
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	24 HP (17.9 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	70.3 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV725-3020
Short Block	KH-32-522-07
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

<b>Z-Force 48</b>	<b>22 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2013</b>
<b>Z-Force 54</b>	<b>24 H.P. Courage</b>	<b>Twin</b>	<b>Dual Hydro</b>	<b>2013</b>

# MODEL: Z-Force 48

# YEAR: 2011-2013

Factory Model Number: 17BF3AGV010

22 H.P. Hydro Drive  
Electric P.T.O. / 48" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	722 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 8.0"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV715-3030
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	22 HP (16.4 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	70.3 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-883-03-S1
Pre Filter	See Air Filter
Oil Filter	KH-12-050-01-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	759-3336
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV715-3030
Short Block	KH-32-522-07
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.

# MODEL: Z-Force 54 F

# YEAR: 2012-2013

Factory Model Number: 17BF3AGX010

24 H.P. Hydro Drive  
Electric P.T.O. / 54" Deck

## GENERAL INFO:

Length (Over-All)	70.0"
Width (Over-All)	Not Available
Height (Over-All)	Not Available
Ground Clearance	Not Available
Weight (Approximate)	740 lbs.
Engine Type	Gas (Air Cooled)
Electrical System	12v Negative Ground

## GENERAL INFO:

Wheelbase	43.0"
Tread Front/Rear	Rib/Turf
Turning Radius	0"
Front Wheel Tire Size	13" x 5"-6"
Rear Wheel Tire Size	20" x 10"-10"
Trans/Differential Type	Aluminum, Intergrated
Forward Speed	0-8.0 mph
Reverse Speed	0-3.5 mph

## ENGINE SPECS:

Make	Kohler
Model Series	Courage (Vertical)
Model/Type/Spec	SV725-3020
No. Of Cylinders	2
Horse Power <small>Rated By Manufacturer</small>	24 HP (17.9 kW)
Peak Torque	Not Available
Displacement	44.0 cu in. (725cc)
Bore	3.27"
Stroke	2.64"

## ENGINE SPECS:

Idle Speed	1600 R.P.M.
Max. Speed (No Load)	3350 R.P.M.
Max. Speed (Full Load)	3300 R.P.M.
Valve Lash (Intake)	0.005" (0.127 mm)
Valve Lash (Exhaust)	0.005" (0.127 mm)
Ignition Type	Electronic
Spark Plug Gap	0.030"
Mag Air Gap	0.011"-0.013"

## CAPACITIES:

Engine Crankcase	2.0 qts. (A)
Coolant	Not Applicable
Transmission	70.3 oz. Both Transaxles (B)
Transaxle	Not Applicable
Creeper Drive Housing	Not Applicable
Front Axle	Not Applicable
Fuel Tank	5.0 gal.

## FLUIDS:

(A) SAE 10W30	737-3030A
(B) Drive System + Fluid	737-3120
(C) 135H EP Gear Lube 85W-140	737-3065
(D) 251 EP Chassis Lubricant	737-3034

## ENGINE MAINTENANCE PARTS:

Air Filter	KH-32-083-06-S
Pre Filter	KH-32-083-08-S
Oil Filter	KH-52-050-02-S
Fuel Filter	KH-25-050-22-S1
Spark Plug	KH-25-132-12-S
Armature	KH-24-584-45-S
Points	Not Applicable
Carb Kit	KH-24-757-46-S

## TRACTOR MAINTENANCE PARTS:

Transmission Filter	HG-52114P
Voltage Regulator	KH-41-403-10-S
Solenoid	925-3001
Muffler	02000456
Battery	925-1707D
P.T.O. Clutch	01008434P

## ENGINE:

Complete Engine	KH-SV725-3020
Short Block	KH-32-522-07
Mini Block	Not Available

## WARRANTY:

Limited Residential	3 Year / 180 Hrs.
Engine	3 Year / 180 Hrs.
P.T.O. Clutch	3 Year / 180 Hrs.

## BEIGE POWDERED PAINT CODE -0499

Beige Paint (11.5 oz. Aerosol)	759-3735
Beige Paint (Quart)	759-3736
Beige Paint (.6 oz. Bottle)	759-3674

## YELLOW POWDERED PAINT CODE -4021

Yellow Paint (11.5 oz. Aerosol)	788S04021
Yellow Paint (Quart)	788L04021-QT
Yellow Paint (.6 oz. Bottle)	788T04021

Part Numbers and Specifications Subject To Change Without Notice.