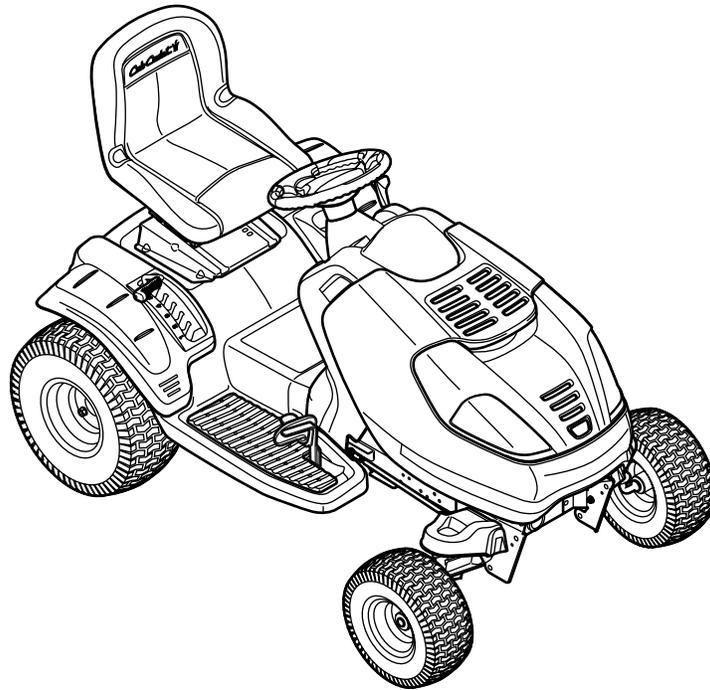


# *Cub Cadet*®

## **Time Schedule**



### **Zero Turn Riding Mower**

#### **Models**

**i1046**

**i1050**

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**CUB CADET LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019**

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## **FOREWORD**

This manual has been prepared to provide the flat rate times needed to do individual servicing jobs.  
Please make full use of the flat rate times when filling out Warranty Claims.

### **1. Use the Time Schedule (Flat Rate Guide)**

To help dealers correctly identify flat rate times of service work to be done. This Time Schedule (Flat Rate Guide) includes an illustration from the covered models Illustrated Parts List. Referral to the corresponding Illustrated Parts list can be used for part numbers. The corresponding Ipl is listed at the bottom of this page.

### **2. Flat Rate Time**

The flat rate time is based on the service done by:

1. Use of common hand tools for all flat rate times.  
(Impact wrench, when used will be called out).
2. Use of special tools.
3. Includes time to obtain necessary tools.
4. Flat rate time includes disassemble, assemble, clean, measurement or operation test.
5. Flat rate time does not include diagnostic time.  
(Unless where called out).

### **3. R&R (Remove & Reinstall):**

To remove and reinstall the same part or a new part for replacement.

R&R includes:

1. Machine in shop.
2. Fluid(s) drainage. (If job requires).
3. Removal and replacement of the part or subpart.
4. Removal of part(s) or subpart to a work bench for inspection or replacement(s). (If job requires).
5. Removal from work bench. (If required from item 4).
6. Installation of parts or subpart
7. Fluid(s) refill. (if job requires).
8. Adjustments. (If job requires).
9. Operation test.

The Illustrated Parts Manual for this Flat Rate Manual is **769-02740**.

# How To Use The Flat Rate Guide

When One Time Is Shown For Multiple Part Descriptions, As In The Example Below, All Part Descriptions Are Allotted The Time Shown.

**For Example:** When Replacing The PTO Switch The Time Allotted is 0.4.  
If Replacing A Service Monitor, PTO Switch and An Ignition Switch Module The Time Allotted Is 0.4.

## Dash Panel:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
32	Storage Net	0.1	X	X
29	Throttle Control Knob	0.1	X	X
43	Dash Support Plate		X	X
24	Dash Panel Removal ( <b>NOTE 1</b> ).		X	X
16	12 Volt Power Receptacle		X	X
18	Service Monitor	0.4	X	X
19	PTO Switch		X	X
20	Ignition Switch Module ( <b>NOTE 2</b> ).		X	X
22	Dash Brake Lever		X	X
36	Throttle Control Cable ( <b>NOTE 3</b> ).	0.6	X	X
37	Choke Control Cable ( <b>NOTE 3</b> ).		X	X
24	Dash Panel Replace ( <b>NOTE 4</b> ).	0.7	X	X
41 & 42	Left Hand & Right Hand Dash Support ( <b>NOTE 5</b> ).	0.8	X	X

**NOTE 1: Time Does Not Include Removal Of Throttle & Choke Cables.**

**NOTE 2: Refer To Page 40 For Decal/Label Times.**

**NOTE 3: Time Includes Muffler & Dash Removal Time.**

**NOTE 4: Time Includes Muffler, Throttle & Choke Cable Removal Time.**

**NOTE 5: Time Includes Dash, Battery Tray, & Dash Support Plate Removal Time.**

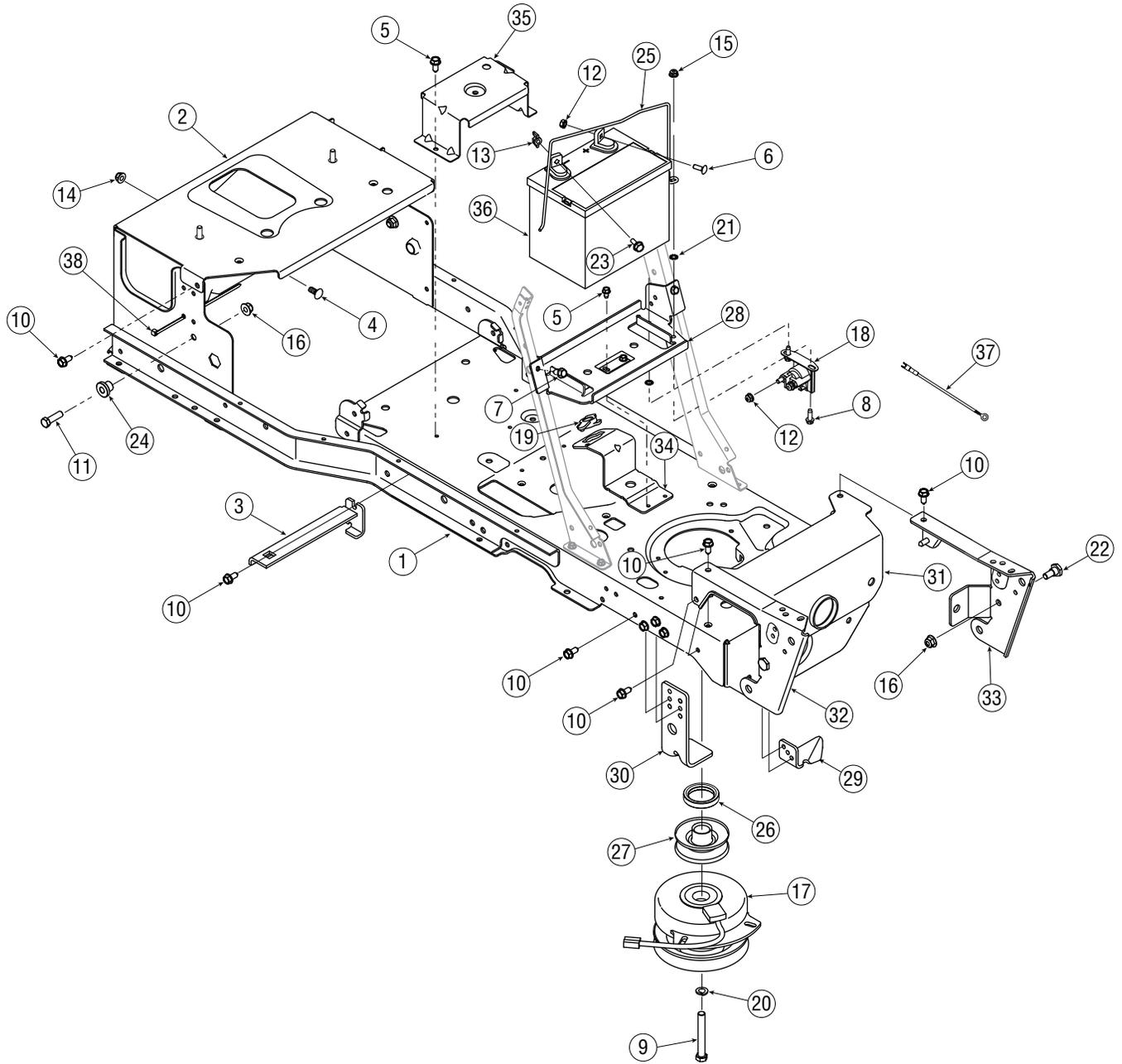
Notes Will Indicate If Certain Item Times Include Additional Item Times To Perform The Repair.

**For Example:** The Time For The Dash Panel Replacement Of 0.7 Includes The Time Of Removing The Muffler And The Choke And Throttle Cables.

The Item Time At The Bottom Includes All The Items Above It To Achieve That Time.

**For Example:** All Items Below The Throttle Control Knob Have This Time Allowed (0.1) Included In Their Time. If Replacing The Dash Panel **DO NOT** Add  $0.7 + 0.6 + 0.4 + 0.1$  For A Total Time Of 1.8 Hours. Claims Will Be Adjusted Accordingly When This Is Done.

### Frame, PTO & Battery



### Frame, PTO & Battery

#### Frame:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
30	Deck Up Stop Bracket	0.1	X	X
22	Shoulder Bolt	0.1	X	X
31	Pivot Bar Bracket		X	X
32	Right Hand Pivot Support Bracket	0.4	X	X
33	Left Hand Pivot Support Bracket		X	X
2	Seat Frame Assembly	0.8	X	X
35	Fender Support Bracket	0.4	X	X
34	Steering Support Bracket		X	X
19	Steering Shaft Bushing	0.5	X	X
3	Running Board Support Bracket	0.8	X	X
1	Frame Assembly (NOTE 1).	A/R	X	X

**NOTE 1: Authorization Required**

#### PTO:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
29	Clutch Bracket	0.1	X	X
17	PTO Clutch		X	X
27	Engine Pulley	0.2	X	X
26	Spacer		X	X

#### Battery:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
25 & 36	Battery and Battery Strap	0.2	X	X
18 & 28	Battery Tray and Solenoid	0.4	X	X
36	Battery (Fill With Acid & Charge).	0.7	X	X

#### Items Not Shown:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
N/S	Wire Harness Replace (NOTE 1).	1.2	X	X

**NOTE 1: Includes Time For Dash Removal, Right Rear Wheel, Unbolt Right Side Fender At Foot Rest & Removing/Installing Wire Harness.**



## Hood, Dash Panel &amp; Fuel Tank

## Hood:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
25-28	Hood Assembly Removal (NOTE 1).	0.1	X	X
1	Bumper Assembly	0.1	X	X
23	Bumper Cap		X	X
14 & 15	Bulb & Light Receptacle	0.1	X	X
27 & 28	Left Hand & Right Hand Head Light Lense	0.1	X	X
39 & 40	Reflector Labels		X	X
47	Hood Support Bracket	0.2	X	X
25	Hood	0.2	X	X
26	Hood Plenum		X	X
44	Hood Pivot Bracket	0.3	X	X

**NOTE 1: Refer To Page 40 For Decal/Label Times.**

## Dash Panel:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
32	Storage Net	0.1	X	X
29	Throttle Control Knob	0.1	X	X
43	Dash Support Plate		X	X
24	Dash Panel Removal (NOTE 1).		X	X
16	12 Volt Power Receptacle		X	X
18	Service Monitor	0.4	X	X
19	PTO Switch		X	X
20	Ignition Switch Module (NOTE 2).		X	X
22	Dash Brake Lever		X	X
36	Throttle Control Cable (NOTE 3).	0.6	X	X
37	Choke Control Cable (NOTE 3).		X	X
24	Dash Panel Replace (NOTE 4).	0.7	X	X
41 & 42	Left Hand & Right Hand Dash Support (NOTE 5).	0.8	X	X

**NOTE 1: Time Does Not Include Removal Of Throttle & Choke Cables.**

**NOTE 2: Refer To Page 40 For Decal/Label Times.**

**NOTE 3: Time Includes Muffler & Dash Removal Time.**

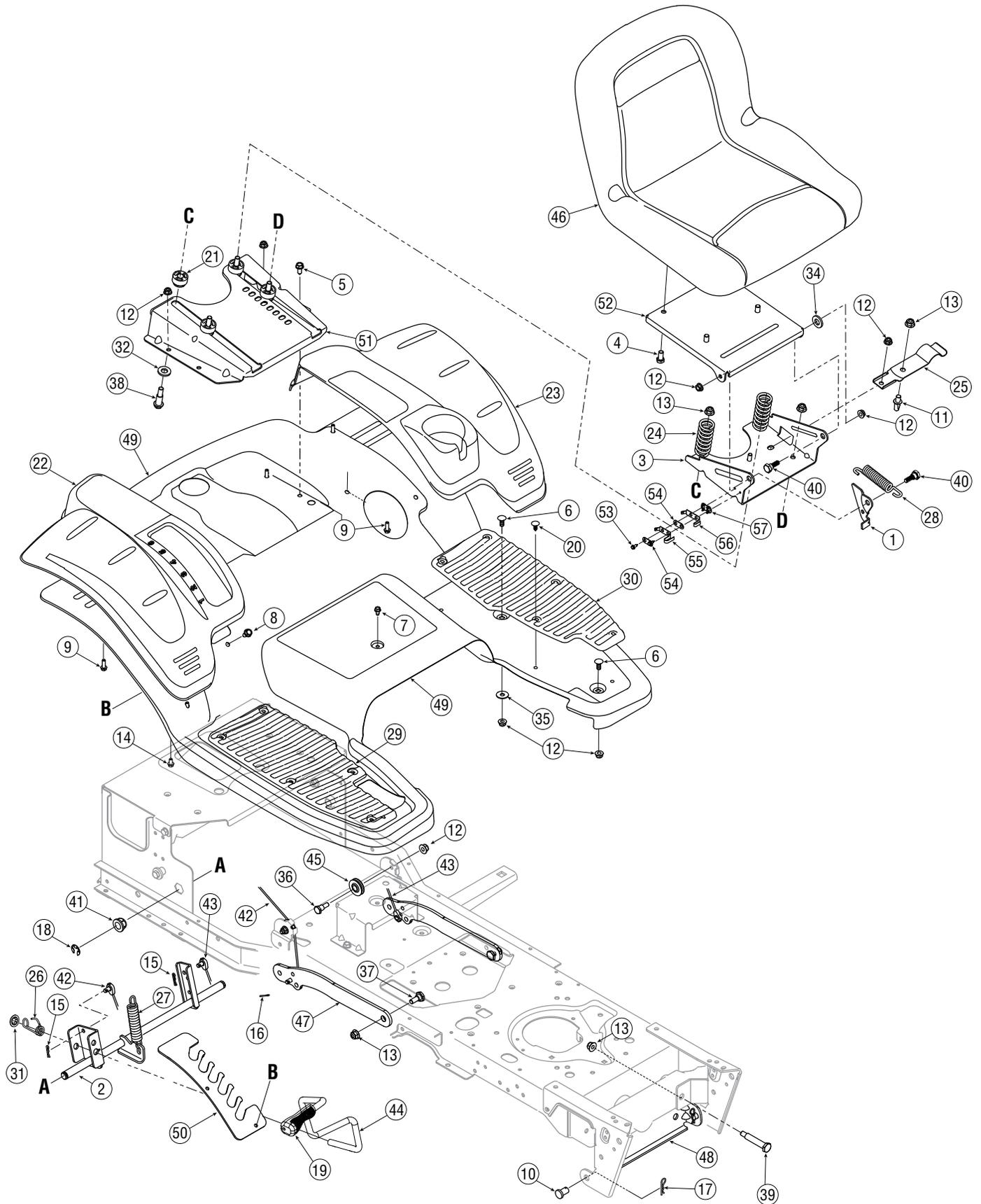
**NOTE 4: Time Includes Muffler, Throttle & Choke Cable Removal Time.**

**NOTE 5: Time Includes Dash, Battery Tray, & Dash Support Plate Removal Time.**

## Fuel Tank:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
53	Fuel Cap	0.1	X	X
49	Fuel Tank Bushing		X	X
50	Rubber Grommet		X	X
51	Rollover Valve	0.8	X	X
52	Fuel Pick Up Fitting		X	X
48	Fuel Tank Assembly		X	X

### Seat, Fender & Deck Lift



## Seat, Fender &amp; Deck Lift

## Seat:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
46	Seat	0.1	X	X
52	Seat Pivot Plate		X	X
28	Extension Spring		X	X
1	Seat Switch Bracket	0.1	X	X
54-57	Outer & Inner Seat Spring Switch & Insulator Plates		X	X
24	Compression Spring	0.2	X	X
11	Seat Index Pin	0.2	X	X
25	Seat Adjust Spring		X	X
3	Seat Slide	0.4	X	X
21	Seat Adjustment Spacers		X	X
51	Seat Pedestal Replacement	0.5	X	X

## Fender:

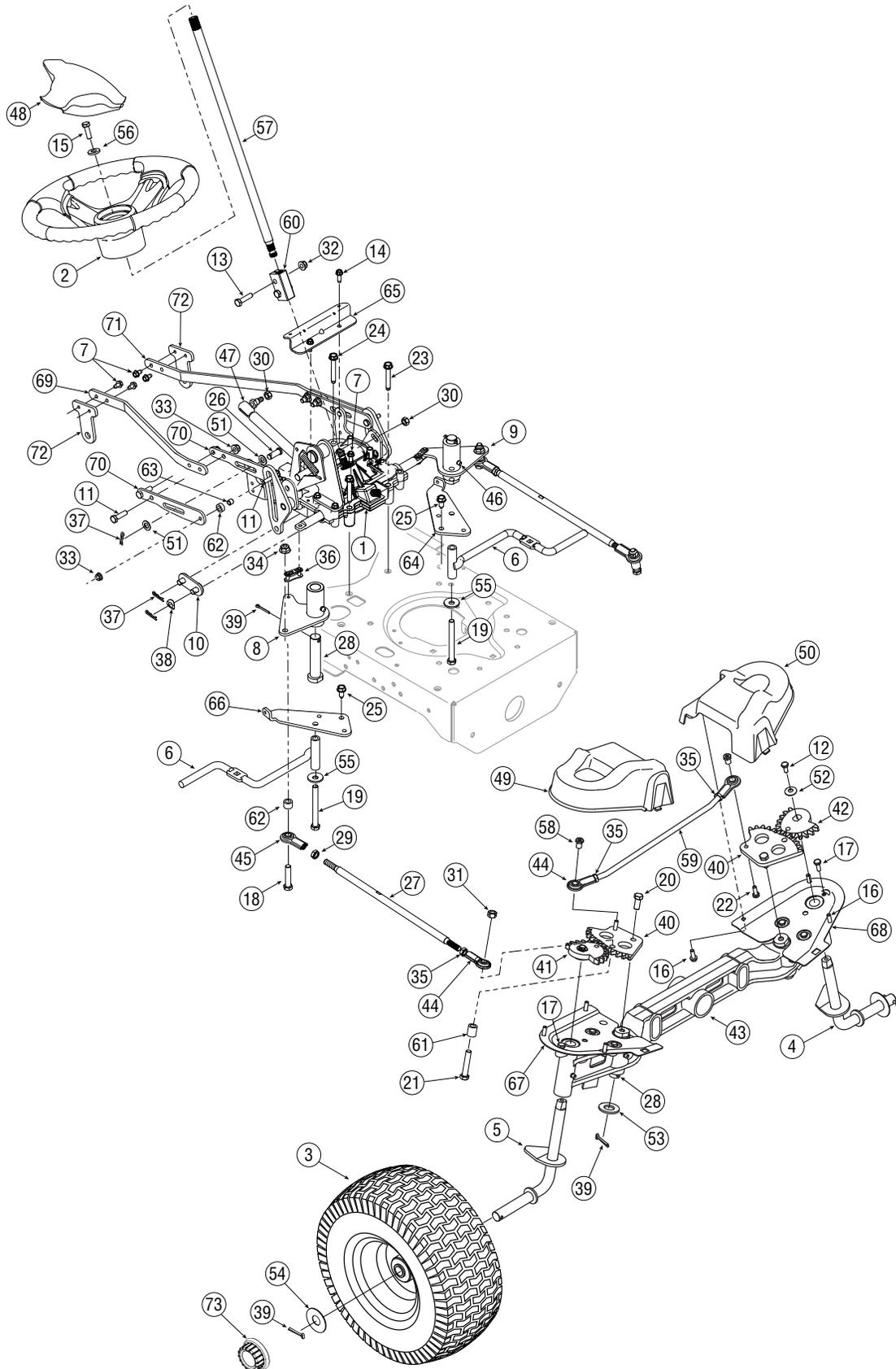
Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
30	Left Hand Foot Pad	0.1	X	X
29	Right Hand Foot Pad		X	X
23	Left Hand Rear Fender Cover	0.2	X	X
50	Deck Lift Plate	0.2	X	X
22	Right Hand Rear Fender Cover		X	X
49	Rear Fender Replacement	0.7	X	X

**NOTE: 1 Refer To Page 40 For Decal/Label Times.**

## Deck Lift:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
19	Handle Grip	0.1	X	X
47	Deck Lift Link (Left & Right)	0.1	X	X
<b>NOTE: The Following Times Include Fender Removal &amp; Installation.</b>				
27	Extension Spring	0.7	X	X
45	Roller Pulley	0.8	X	X
43	Lift Cable		X	X
2	Lift Shaft		X	X
44	Lift Handle	0.8	X	X
26	Lift Torrsion Spring		X	X

### Steering Controls & Front Axle



## Steering Controls &amp; Front Axle

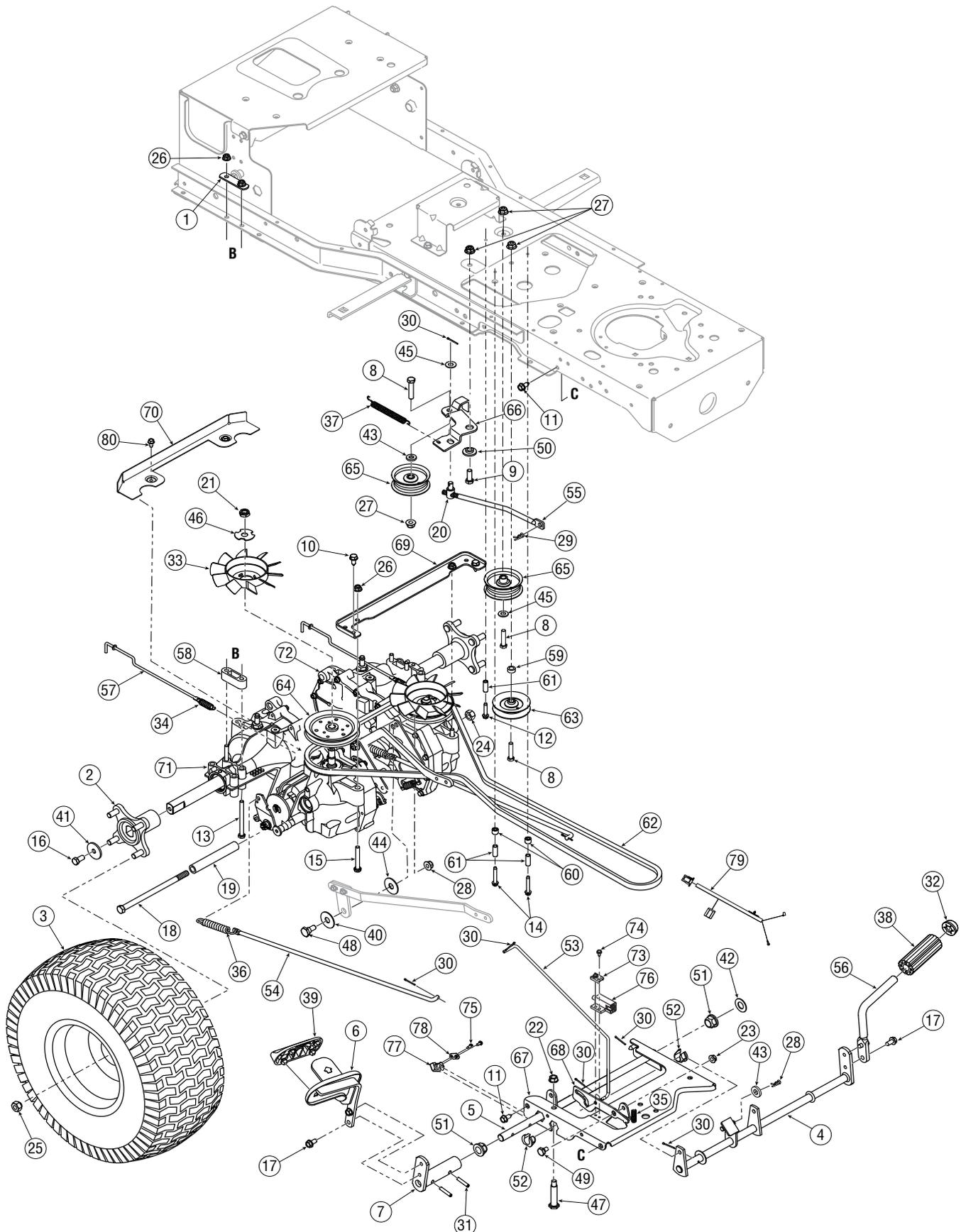
## Steering Controls:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
48	Steering wheel Cover		X	X
2	Steering Wheel Assembly	0.1	X	X
36	Connecting Link	0.1	X	X
9	Left Hand Steering Arm		X	X
8	Right Hand Steering Arm		X	X
6	Fender Support Rods	0.2	X	X
28	Steering Pivot Gear Shaft		X	X
<b>NOTE: The Following Times Include Dash Removal &amp; Installation.</b>				
10	Steering Box Hydro Link	0.6	X	X
65	Upper Steering Support Bracket	0.6	X	X
57	Steering Shaft		X	X
60	Steering Shaft Block	0.6	X	X
47	Damper Cylinder	0.6		
71	Left Hand Hydro Steering Link		X	X
69	Right Hand Hydro Steering Link		X	X
70	Hydro Steering Adjustment Bracket	0.7	X	X
63 & 62	Spacer & Spacer		X	X
72	Steering Link Bracket		X	X
64	Left Hand Steering Support Bracket		X	X
66	Right Hand Steering Support Bracket	0.9	X	X
1	Hydro Steering Assembly	1.2	X	X
<b>NOTE: For Steering Neutral Adjustment Time, Refer To Page 15.</b>				

## Front Axle:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
73	Hub Cap		X	X
54	Flat Washer	0.1	X	X
3	Wheel Assembly	0.1	X	X
49 & 50	Left Hand & Right Hand Steering Gear Covers	0.1	X	X
27	Left Hand & Right Hand Drag Links	0.1	X	X
44	Ball Joint Rod End		X	X
45	Ball Joint Rod End (LH Thread)	0.1	X	X
42	Left Hand 13T Spur Gear		X	X
41	Right Hand 13T Spur Gear	0.1	X	X
4 & 5	Left Hand & Right Hand Axle Assembly	0.2	X	X
59	Rod		X	X
44	Left Hand & Right Hand Ball Joint Rod End	0.2	X	X
40	Left Hand & Right Hand 12T Spur Gear	0.3	X	X
68 & 67	Left Hand & Right Hand Base Cover Plate	0.4	X	X
	Tire (Per Wheel)		X	X
	Grease Fitting		X	X
	Ball Bearing (Per Wheel)	0.5	X	X
	Tubless Air Valve (Per Wheel)		X	X
28	Steering Pivot Gear Shaft	0.6	X	X
43	Pivot Bar Axle Assembly Remove (With Above Parts Attached)	0.4	X	X
43	Pivot Bar Axle R&R	0.8	X	X

### Transmission Drive & Controls



## Transmission Drive &amp; Controls

## Transmission Drive:

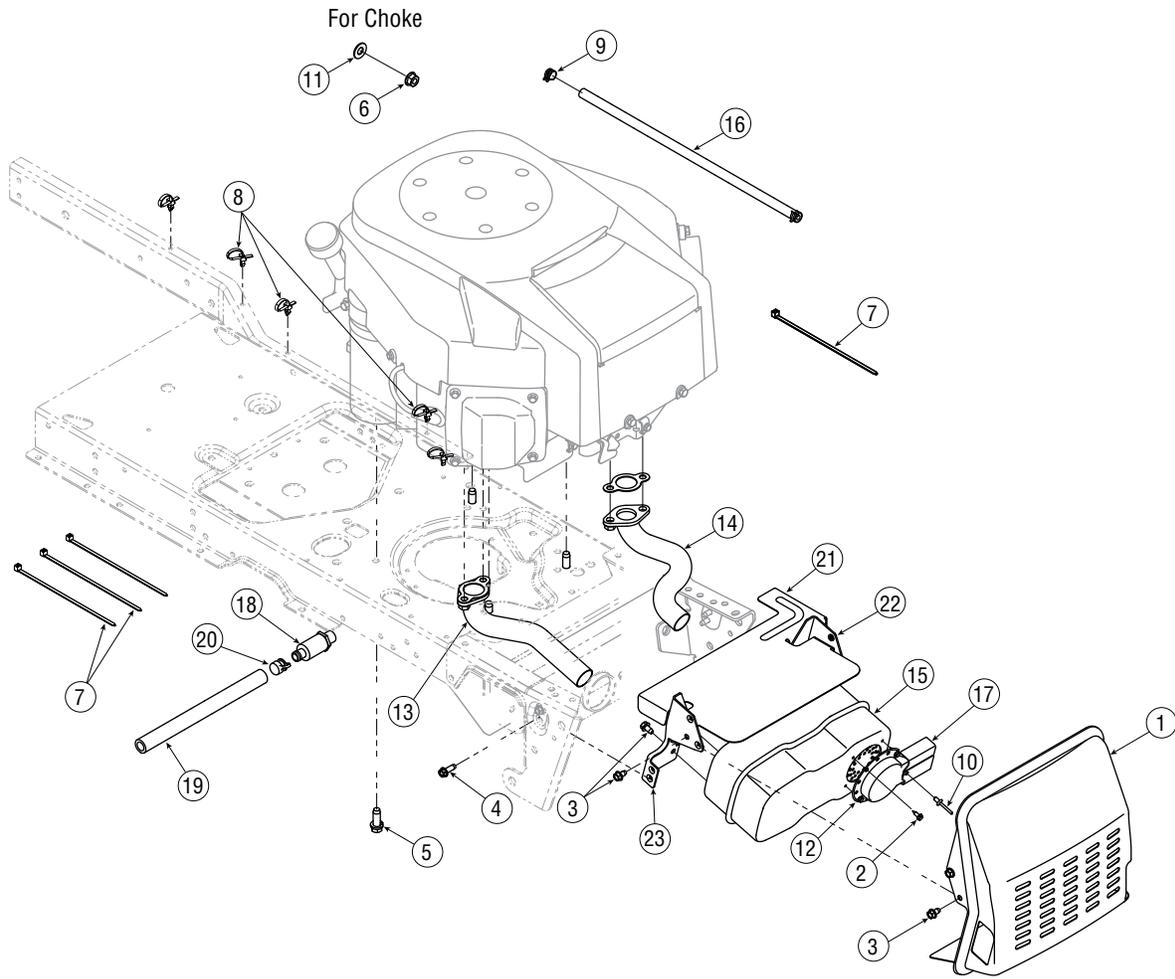
Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
3	Left & Right Wheely Assembly (Impact Gun Used)	0.1	X	X
2	Left & Right Wheel Hubs (Impact Gun Used)		X	X
57	Hydro Dump Rod	0.1	X	X
34	Extension Spring		X	X
<b>NOTE: The Following Times Include Deck Removal &amp; Installation.</b>				
1 & 58	Trans Mounting Bracket & T-Axle Spacer	0.4	X	X
37	Extension Spring	0.5	X	X
20 & 55	Drive Engage Rod & Ferrule	0.5	X	X
12	Hex Washer Screw (Includes 61)	0.5	X	X
14	Hex Washer Screw (Includes 60 & 61)	0.5	X	X
71 & 72	Left & Right Hand Hydro Transmissions Removal (NOTE 1).	1.0	X	X
50	Shoulder Spacer	1.0	X	X
66	Idler Arm		X	X
65	Flat Idler Pulley		X	X
63	V Type Drive Pulley		X	X
62	Belt	1.0	X	X
70	Belt Keeper Bracket	1.1	X	X
46	Hydro Lock Washer		X	X
33	Hydro Fan		X	X
64	V Type Pulley (Transmission)		X	X
69	Support Bracket		X	X

**NOTE 1: Refer To Page 20-23 For Transmission Repair Times**

## Controls:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
32 & 38	Push Cap & Foot Pad	0.1	X	X
56	Brake Pedal Bracket		X	X
6 & 39	Hydro Control Pedal Assembly & Hydro Control Pedal Pad		X	X
<b>NOTE: The Following Times Include Deck Removal &amp; Installation.</b>				
77 & 78	Reverse Switch & Insulator Plate	0.5	X	X
48	Shoulder Bolt (Includes 40 & 44)	0.5	X	X
47	Shoulder Bolt	0.5	X	X
79	Reverse Jumper Harness	0.5	X	X
36 & 54	Extension Springs & Brake Rods	0.5	X	X
53	Park Brake Rod	1.1	X	X
67	Foot Pedal Support Bracket Assembly	1.3	X	X
4 & 52	Brake Control Shaft Assembly & Hex Flange Bearing		X	X
5 & 51	Hydro Control Shaft Assembly & Hex Flange Bearing		X	X
7	Pedal Bracket		X	X
68	Park Brake Bracket		X	X
35	Compression Spring		X	X
49	Shoulder Bolt		X	X
73 & 76	Switch Plate & Brake Switch		X	X

### Engine Mounting & Connections



## Engine Mounting & Connections

### Engine Mounting:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
N/S	Engine Removal & Installation (NOTE 1).	1.6	X	X

**NOTE 1:** Includes Removal / Disconnect & Installation / Reconnect Of The Following:  
 Front Bumper, Hood Assembly, Muffler Assembly, PTO Assembly (Impact Gun Used),  
 Battery, Fuel Line, Choke & Throttle Cables, Wire Harness Leads, Hydro Belt,  
 Front Steering Covers and Oil Drainage/Refill.

### Connections:

**NOTE:** *The Following Time Includes Hood, Bumper Removal & Installation Time.*

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
1	Muffler Shield		X	X
17	Muffler Deflector		X	X
22	Muffler Left Hand Bracket	0.3	X	X
23	Muffler Right Hand Bracket		X	X
15	Dual Inlet Muffler		X	X
21	Heat Shield		X	X

**NOTE:** *The Following Time Includes Partial Engine Removal & Installation Time.*

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
18	Oil Drain Valve	0.6	X	X

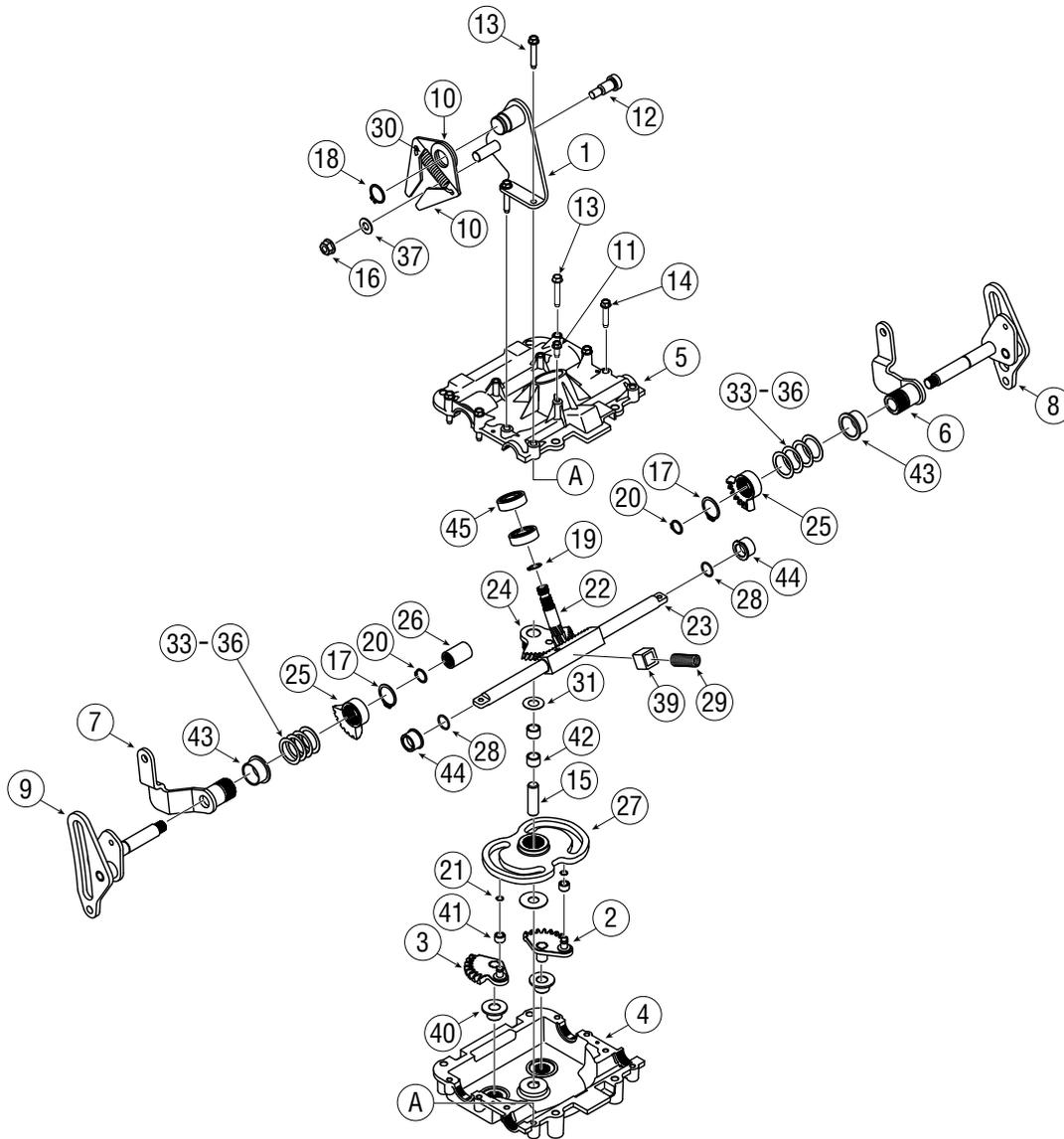
**NOTE:** *The Following Time Includes Muffler Removal & Installation Time.*

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
14	Left Hand Exhaust Pipe	0.4	X	X
13	Right Hand Exhaust Pipe		X	X

**NOTE:** *The Following Times Include Fender Removal & Installation Time.*

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
16	Fuel Hose	0.9	X	X

### Steering Gear Box



**Steering Gear Box**

**ATTENTION**

**NOTE: At This Time, The Steering Gear Box Will Be Replaced As An Assembly Only. Disassembly Times Will Be Added In An Updated Revision.**

**NOTE: Refer To Page 8 & 9 For Times of Removal & Installation.**

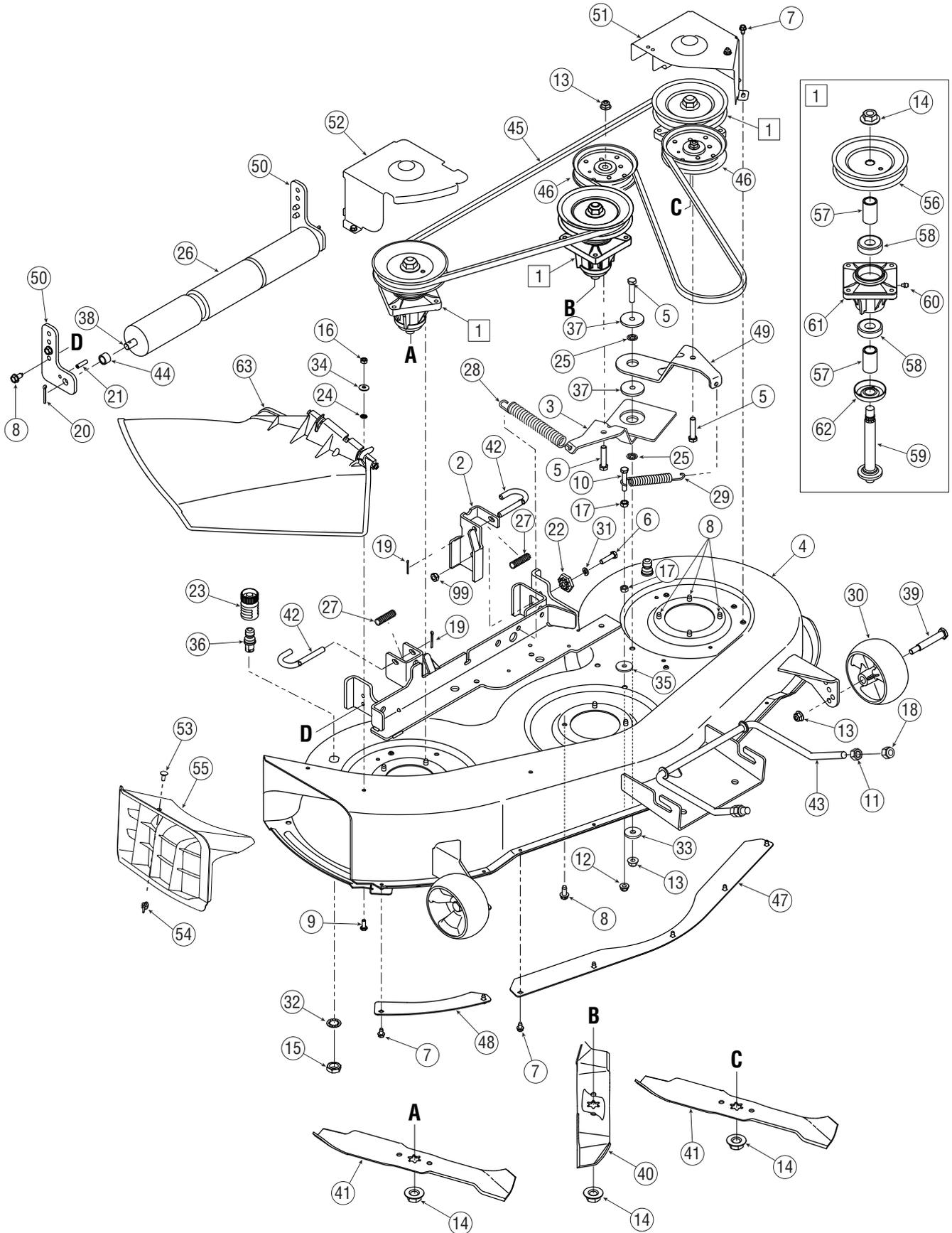
**Steering Neutral Adjustment:**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
	Steering Neutral Adjustments Will Be Paid For Installation Of Any Steering Gear Boxes, Steering Controls, Transmissions, Or If Steering Neutral Was Found Out Of Adjustment During Dealer SetUp.	0.5	X	X

**NOTE: *This Time Does Not Include Fender & Dash Removal & Installation.***

**NOTE: Please Refer to Service Advisory CC-561, 753-05437 Service Kit Instructions 769-03094, Or The Professional Shop Manual 769-03231.**

### 46" Mowing Deck



## 46" Mowing Deck

## 46" Mowing Deck:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
55	Mulching Plug	0.1	X	
63	Discharge Chute Assembly		X	
30	Deck Ball Wheels (Each)	0.1	X	
4	Deck Removal & Installation	0.3	X	
<b>NOTE: The Following Times Do Not Include Deck Removal &amp; Installation.</b>				
45	Belt	0.2	X	
46	Idler Pulley	0.2	X	
28 & 29	Extension Springs (Each)	0.3	X	
37	Shoulder Spacer		X	
49	Idler Bracket	0.6	X	
3	Idler Bracket		X	

**NOTE: The Following Times Do Not Include Deck Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
51 & 52	LH Deck Belt Cover & RH Deck Belt Cover	0.1	X	
56	Deck Spindle Pulley (Each)	0.2	X	
40	Center Blade	0.2	X	
41	Outer Blades		X	
60	Lube Fitting (Each Spindle)	0.2	X	
1	Spindle Assembly (Each)	0.3	X	
57	Spacers (Each Spindle)		X	
58	Ball Bearing (Each Spindle)		X	
61	Spindle Housing (Each Spindle)	0.4	X	
62	Bearing Shield		X	
59	Spindle Shaft (Each Spindle)		X	

**NOTE: The Following Times Do Not Include Deck Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
42	Deck Release Rod	0.1	X	
27	Compression Spring		X	
22	Deck Adjust Gear	0.1	X	
47	Center Deck Skirt	0.1	X	
48	RH Deck Skirt		X	
36	Deck Wash Nozzle	0.1	X	
43	Front Deck Hanger Rod	0.2	X	
2	LH Deck Hanger Bracket	0.2	X	
38	Shaft		X	
44	Spacer	0.2	X	
26	Rear Rollers		X	
50	Roller Height Bracket		X	
4	Deck Shell Assembly Replacement	2.0	X	



## 50" Mowing Deck

## 50" Mowing Deck

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
58	Mulching Plug	0.1		X
66	Discharge Chute Assembly	0.1		X
37	Deck Ball Wheels (Each)	0.1		X
34	Front Roller			X
17	Roller Pin	0.1		X
4	Deck Removal & Installation	0.3		X
<b>NOTE: The Following Times Do Not Include Deck Removal &amp; Installation.</b>				
50	Belt	0.2		X
51	Idler Pulley (Each)	0.2		X
36	Extension Spring	0.3		X
42	Shoulder Spacer			X
56	Idler Bracket	0.6		X

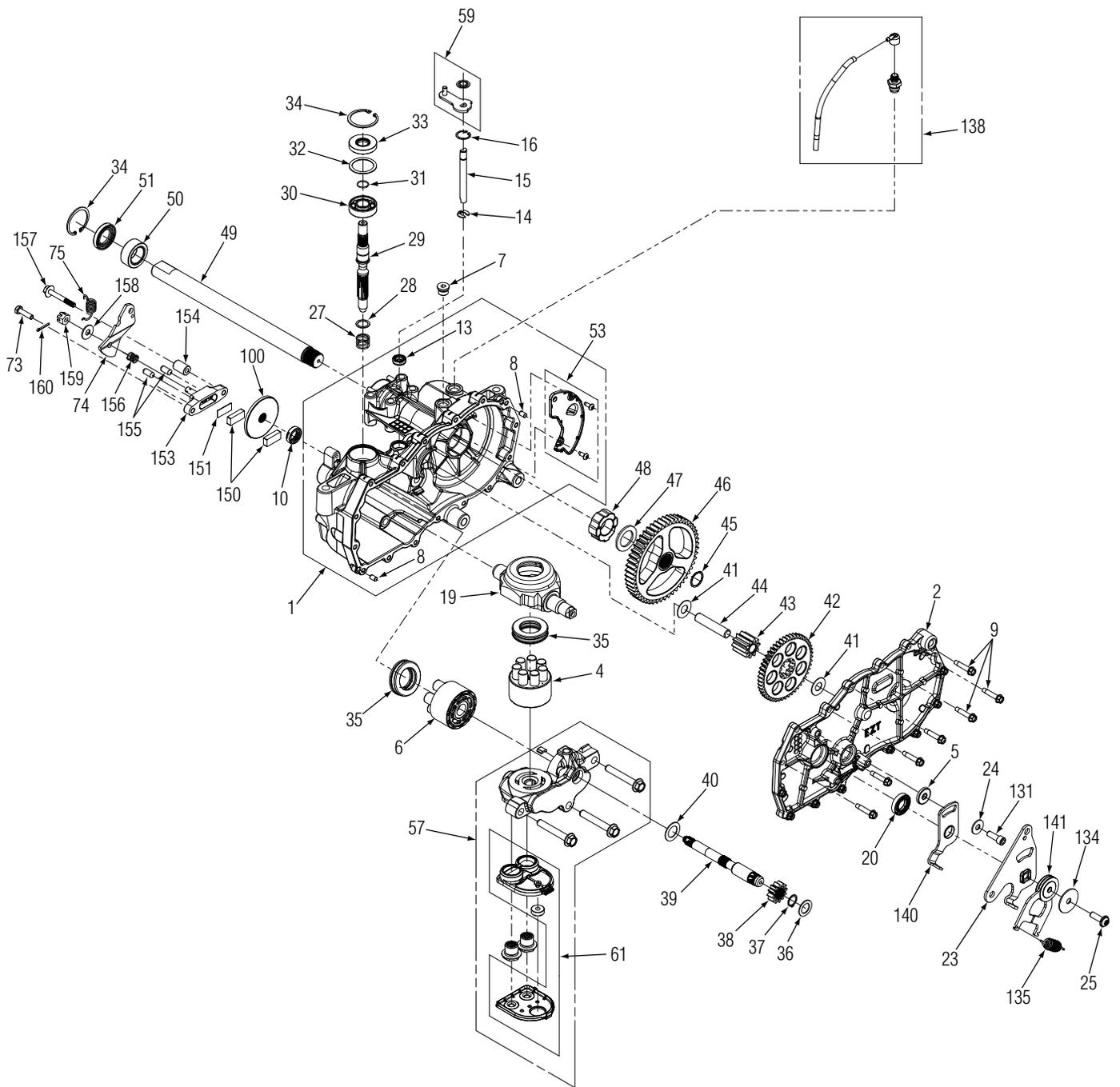
**NOTE: The Following Times Do Not Include Deck Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
52 & 53	LH Deck Belt Cover & RH Deck Belt Cover	0.1		X
65	Deck Spindle Pulley (Each)	0.2		X
45	Blades	0.2		X
60	Lube Fitting (Each Spindle)	0.2		X
2	Spindle Assembly (Each)	0.3		X
63	Internal Spacers (Each Spindle)			X
62	Ball Bearing (Each Spindle)			X
64	Bottom Spacer (Each Spindle)	0.4		X
61	Spindle Shaft (Each Spindle)			X

**NOTE: The Following Times Do Not Include Deck Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
46	Deck Release Rod			X
35	Compression Spring	0.1		X
32	Deck Adjust Gear	0.1		X
54	Center Deck Skirt			X
55	RH Deck Skirt	0.1		X
6	Finger Guard	0.1		X
41	Deck Wash Nozzle	0.1		X
47	Front Deck Hanger Rod	0.2		X
3	LH Deck Hanger Bracket	0.2		X
43	Shaft			X
49	Spacer			X
34	Rear Rollers	0.2		X
57	Roller Height Bracket			X
4	Deck Shell Assembly Replacement	2.5		X

### RH Transmission Assembly

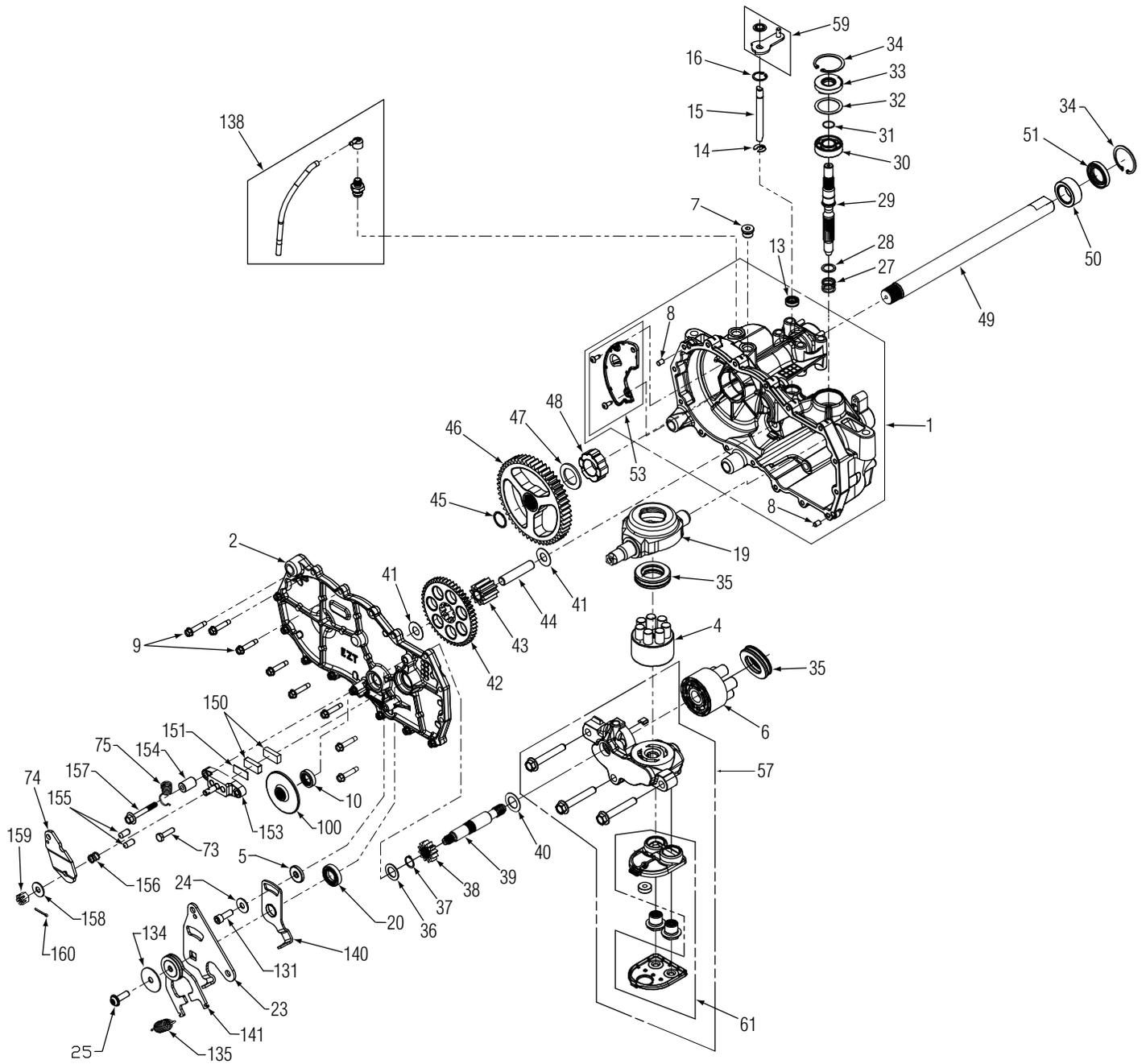


## RH Transmission Assembly

## RH Transmission Assembly:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
N/A	Inspection & Troubleshooting	0.5	X	X
10	Oil Seal		X	X
13	Lip Seal		X	X
16	Retaining Ring		X	X
20	Lip Seal		X	X
23	Control Arm		X	X
32	Spacer		X	X
33	Lip Seal		X	X
34	Retaining Ring		X	X
51	Lip Seal		X	X
59	Bypass Arm RH Kit		X	X
74	Brake Arm	0.5	X	X
75	Brake Spring		X	X
100	Brake Rotor		X	X
135	Extension Spring		X	X
138	Breather Kit		X	X
140	Neutral RH Arm		X	X
141	Scissors Arm Kit		X	X
150	Brake Puck		X	X
151	Puck Plate		X	X
153	Brake Yoke Assembly		X	X
155	Actuating Pin		X	X
156	Brake Spring		X	X
1	Main RH Housing Assembly		X	X
2	RH Side Assembly		X	X
4	7 Piston Block Kit		X	X
6	Cylinder Block Assembly		X	X
15	Bypass Rod		X	X
19	Trunnion Swashplate		X	X
27	Block Spring		X	X
29	Input Shaft		X	X
30	Ball Bearing		X	X
35	Thrust Bearing		X	X
38	12T Pinion Gear	2.0	X	X
39	Motor Shaft		X	X
42	10T / 49T Gear		X	X
43	10T Jackshaft Gear		X	X
44	Jackshaft Pin		X	X
46	52T Bull Gear		X	X
48	Sleeve Bearing		X	X
49	Axle Shaft		X	X
50	Sleeve Bearing		X	X
53	Expansion RH Plate Kit		X	X
57	Center Section RH Kit		X	X
61	Filter Assembly		X	X

### LH Transmission Assembly

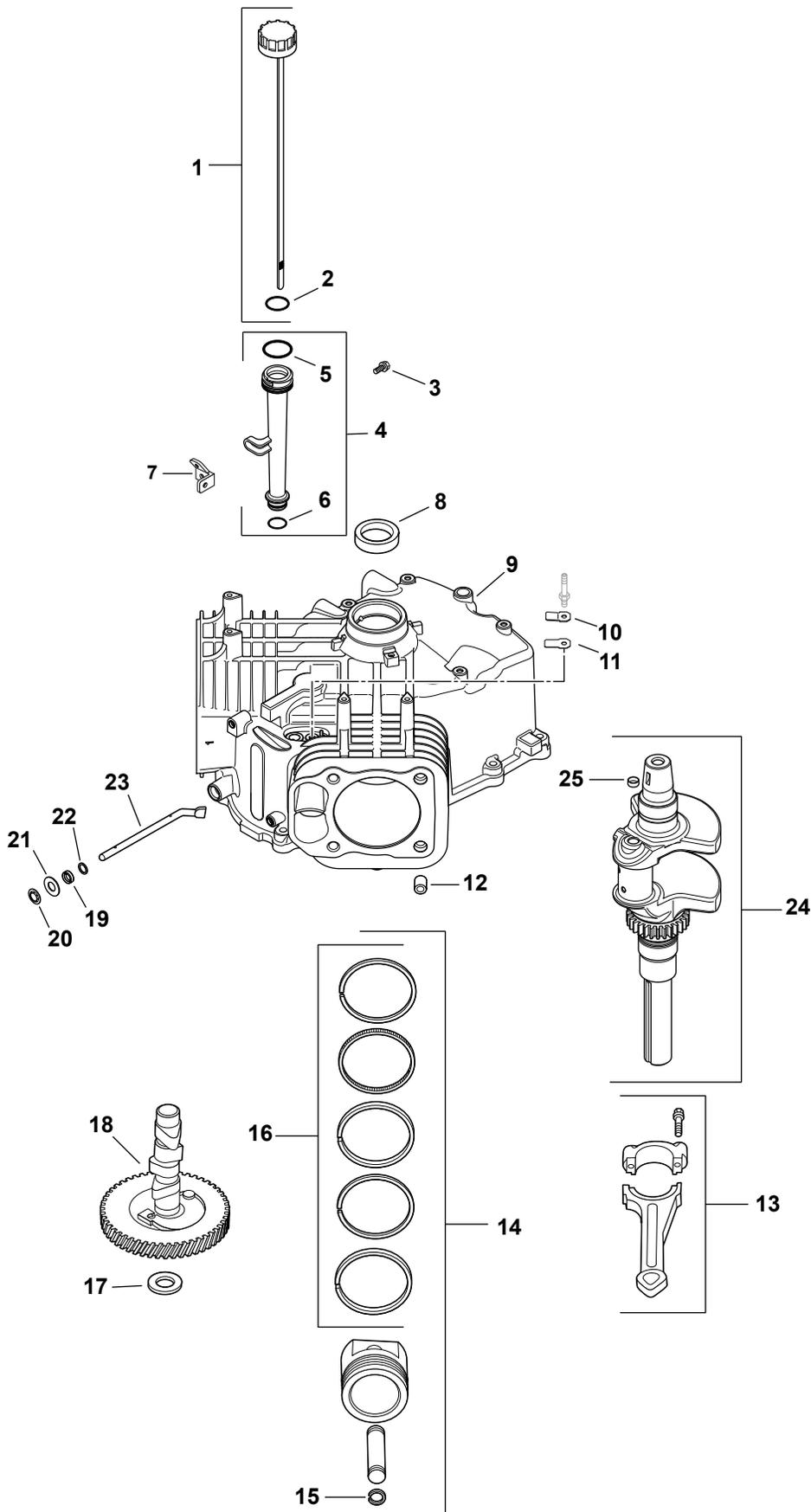


## LH Transmission Assembly

## LH Transmission Assembly:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
N/A	Inspection & Troubleshooting	0.5	X	X
10	Oil Seal		X	X
13	Lip Seal		X	X
16	Retaining Ring		X	X
20	Lip Seal		X	X
23	Control Arm		X	X
32	Spacer		X	X
33	Lip Seal		X	X
34	Retaining Ring		X	X
51	Lip Seal		X	X
59	Bypass Arm LH Kit		X	X
74	Brake Arm	0.5	X	X
75	Brake Spring		X	X
100	Brake Rotor		X	X
135	Extension Spring		X	X
138	Breather Kit		X	X
140	Neutral LH Arm		X	X
141	Scissors Arm Kit		X	X
150	Brake Puck		X	X
151	Puck Plate		X	X
153	Brake Yoke Assembly		X	X
155	Actuating Pin		X	X
156	Brake Spring		X	X
1	Main LH Housing Assembly		X	X
2	LH Side Assembly		X	X
4	7 Piston Block Kit		X	X
6	Cylinder Block Assembly		X	X
15	Bypass Rod		X	X
19	Trunnion Swashplate		X	X
27	Block Spring		X	X
29	Input Shaft		X	X
30	Ball Bearing		X	X
35	Thrust Bearing		X	X
38	12T Pinion Gear	2.0	X	X
39	Motor Shaft		X	X
42	10T / 49T Gear		X	X
43	10T Jackshaft Gear		X	X
44	Jackshaft Pin		X	X
46	52T Bull Gear		X	X
48	Sleeve Bearing		X	X
49	Axle Shaft		X	X
50	Sleeve Bearing		X	X
53	Expansion LH Plate Kit		X	X
57	Center Section LH Kit		X	X
61	Filter Assembly		X	X

### i1046 & i1050 Crankcase; Crankshaft; and Dipstick



## i1046 &amp; i1050 Crankcase; Crankshaft; and Dipstick

## Dipstick:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
1	Dipstick Assembly		X	X
2	O-Ring, Dipstick		X	X
4	Oil Fill Tube	0.1	X	X
5	Upper Fill Tube O-Ring		X	X
6	Lower Fill Tube O-Ring		X	X
7	Fill Tube Bracket		X	X

## Crankcase:

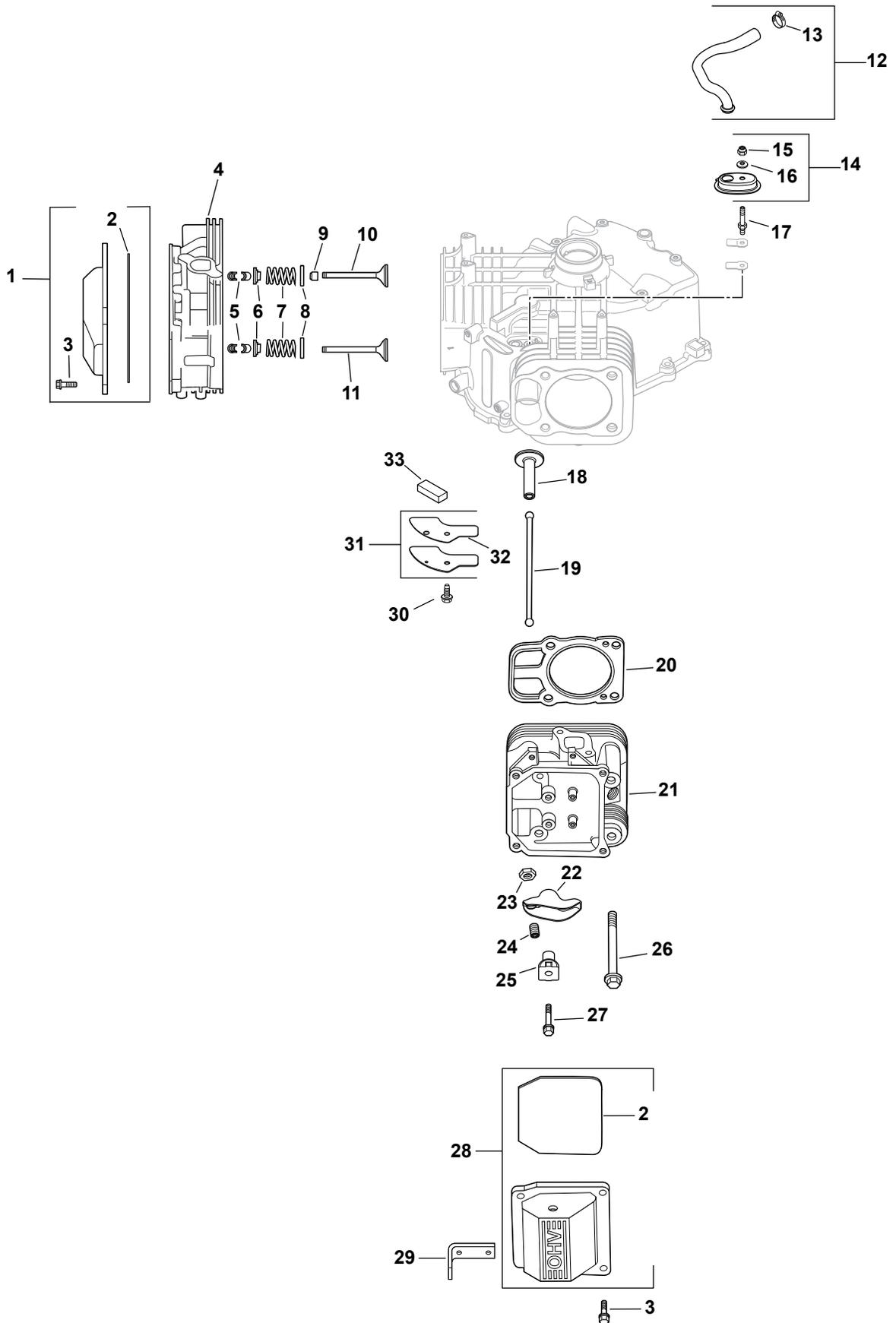
Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
10	Breather Reed Retainer		X	X
11	Breather Reed	1.5	X	X
8	Flywheel Oil Seal	1.5	X	X
9	Refer To Short Block Replacement	N/A	X	X
19	Governor Cross Shaft Seal		X	X
20	Retaining Ring	0.8	X	X
21	9mm Flat Washer		X	X
22	11/32" Flat Washer		X	X
<b>NOTE: The Following Times Do Not Include Engine Removal &amp; Installation.</b>				
23	Governor Cross Shaft	2.0	X	X
<b>NOTE: Major Engine Repair Times (Times Do Not Include Engine Removal &amp; Installation).</b>				
N/A	Engine Removal & Instalation	1.6	X	X
N/A	Short Block Replacement	3.0	X	X
N/A	Miniblock	4.0	X	X
N/A	Minor Overhaul (Excludes Valve Service)	4.0	X	X
N/A	Major Overhaul (Includes Valve Service)	5.0	X	X

## Crankshaft:

**NOTE: The Following Times Do Not Include Engine Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
17	Camshaft Shim		X	X
18	Camshaft Kit	2.0	X	X
13	Connecting Rod		X	X
14	Piston With Ring Set Kit		X	X
15	Piston Pin Retainer	3.0	X	X
16	Ring Set		X	X
24	Crankshaft		X	X
25	Cup Plug		X	X

### i1046 & i1050 Cylinder Head/Valves/Breather



## i1046 &amp; i1050 Cylinder Head/ Valves/ Breather

## Cylinder Head:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
1 & 2	Rocker Cover Kit or Valve Cover O-Ring	0.5	X	X
28 & 2	Breather Valve Cover Kit or Valve Cover O-Ring	0.5	X	X
4 & 20	#1 Cylinder Head Kit and or Gasket	1.0	X	X
21 & 20	#2 Cylinder Head Kit and or Gasket	1.0	X	X

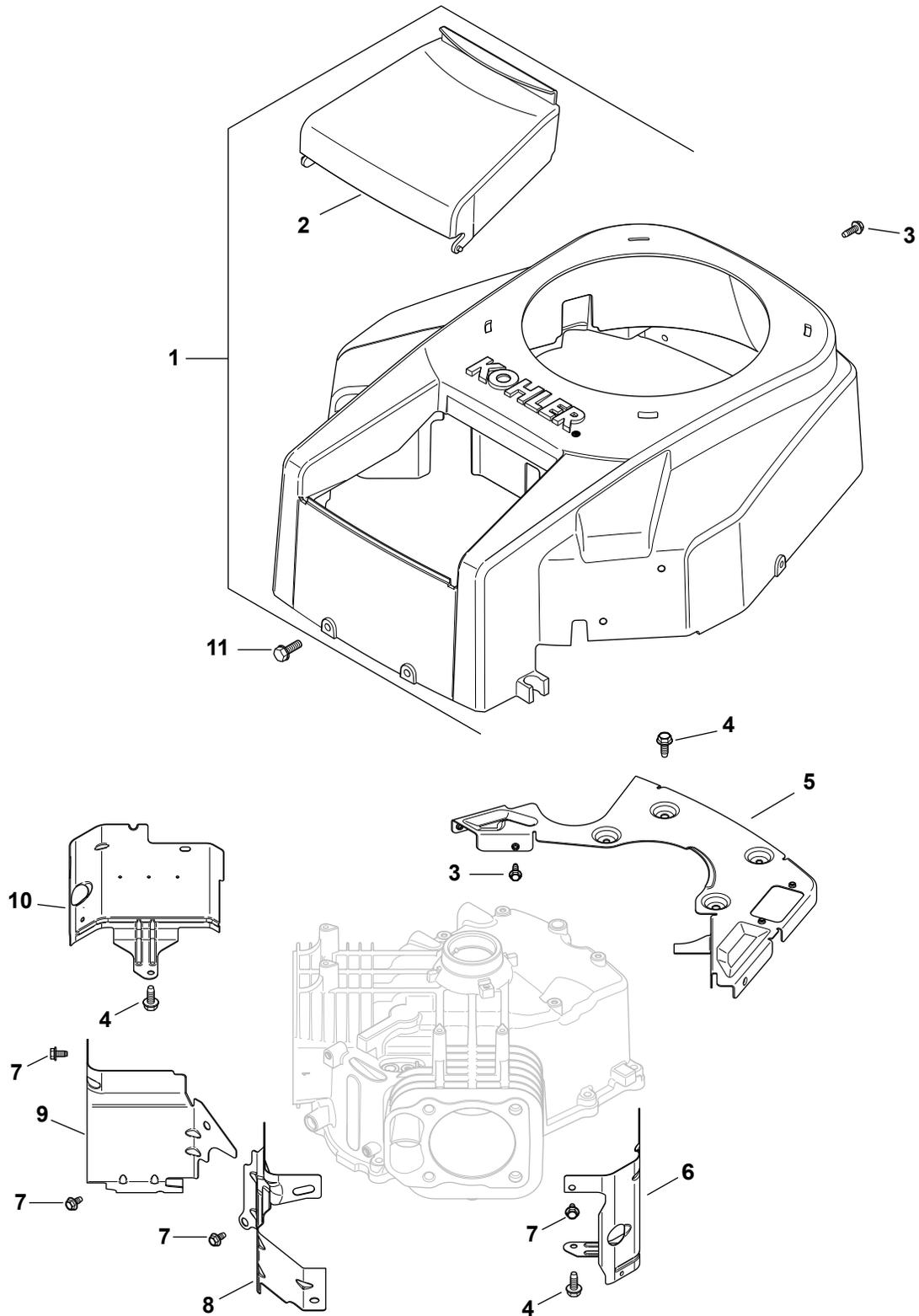
## Valves:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
<b>NOTE: The Following Times Are Allowed For Each Cylinder.</b>				
	Valve Adjustment	0.5	X	X
22	Rocker Arm		X	X
23	Nut	0.7	X	X
24	Set Screw		X	X
25	Rocker Arm Pivot		X	X
5	Retainer Kit		X	X
6	Valve Spring Cap		X	X
7	Valve Spring		X	X
8	Spring Retainer	1.0	X	X
9	Valve Stem Seal		X	X
10	Intake Valve		X	X
11	Exhaust Valve		X	X
19	Push Rod		X	X
<b>NOTE: The Following Time Includes Camshaft Removal &amp; Installation.</b>				
18	Tappet Kit	2.0	X	X

## Breather:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
14	Breather Housing Kit		X	X
15	Lock Nut	1.2	X	X
16	Sealing Washer		X	X
17	Breather Cover Stud		X	X
<b>NOTE: The Following Times Do Not Include Engine Removal &amp; Installation.</b>				
31	Breather Cover Kit		X	X
32	Breather Cover Gasket	1.2	X	X
33	Breather Filter		X	X

**i1046 & i1050 Blower Housing/Baffles**



## i1046 &amp; i1050 Blower Housing / Baffles

## Blower Housing:

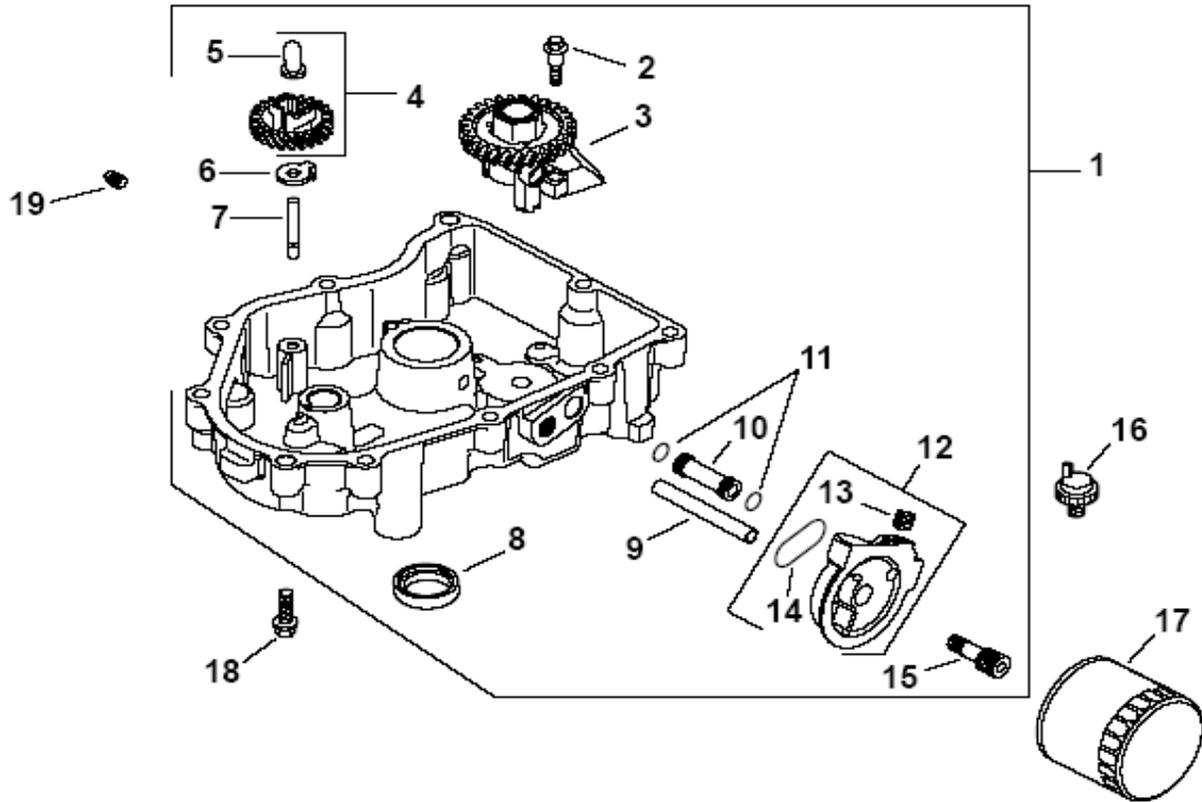
Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
2	Air Cleaner Cover	0.3	X	X
1	Blower Housing Kit	0.5	X	X

## Baffles:

**NOTE: *The Following Time Includes The Blower Housing Removal & Installation.***

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
5	Backing Plate		X	X
6	#2 Side Cylinder Barrel Baffle		X	X
8	#2 Side Valley baffle	0.5	X	X
9	#1 Side Valley Baffle		X	X
10	#1 Side Cylinder Barrel Baffle		X	X

i1046 & i1050 Oil Pan / Filter



**Oil Pan:**

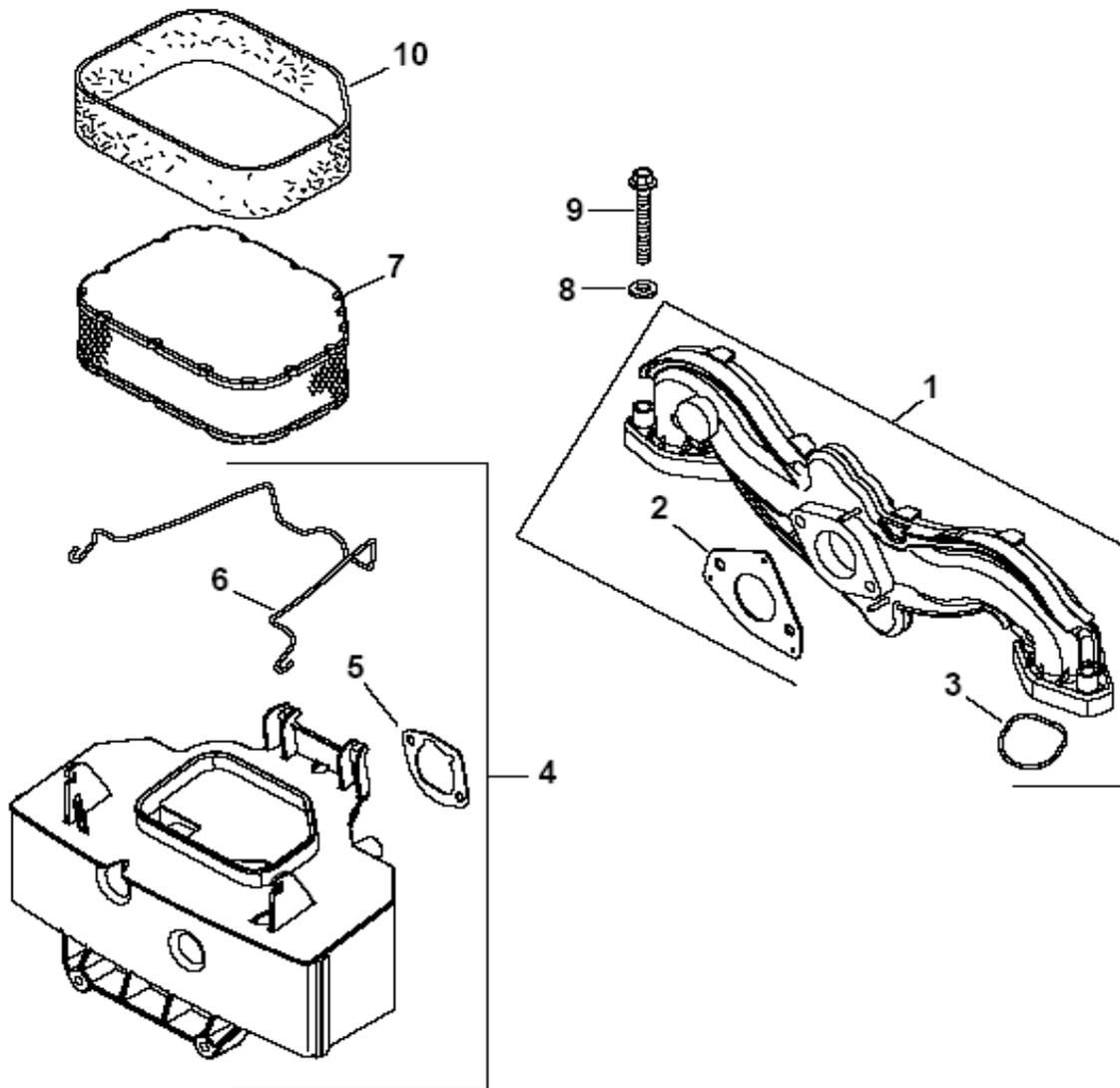
**NOTE: The Following Times Do Not Include Engine Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
8	Oil Seal (PTO End)	0.5	X	X
1	Oil Pan Assembly	1.0	X	X
3	Oil Pump Assembly		X	X
4	Governor Gear		X	X
5	Governor Regulating Pin	1.5	X	X
6	Locking Tab		X	X
7	Governor Gear Shaft		X	X

**Filter:**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
17	Oil Filter	0.2	X	X
16	Oil Pressure Switch		X	X
9	Oil Feed Tube - Filter To Pan		X	X
10	Oil Feed Tube - Pan To Filter		X	X
11	Oil Pick-up O-Ring	0.3	X	X
12	Oil Filter Adapter Kit		X	X
14	Oil Filter Adapter O-Ring		X	X
15	Oil Filter Nipple		X	X

i1046 & i1050 Air Filter / Intake Manifold



**Air Filter:**

**NOTE: The Following Times Are For Damaged In Shipment Only.**

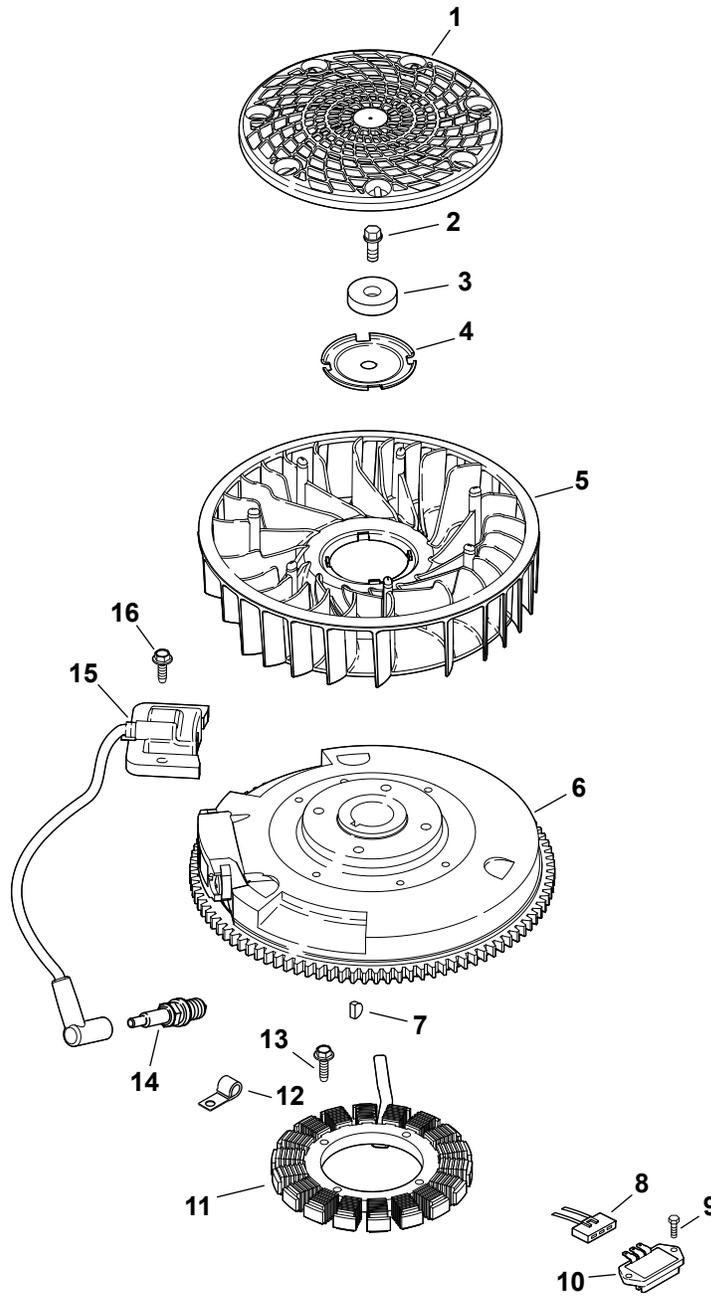
Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
4	Air Cleaner Base w/Gasket, Latch (Includes 5 & 6)		X	X
7	Air Filter Element	0.3	X	X
10	Pre-Cleaner Element		X	X

**Intake Manifold:**

**NOTE: The Following Time Includes The Blower Housing Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
2	Carburetor Gasket	0.8	X	X
1	Intake Manifold	1.0	X	X
3	Intake Port O-Ring		X	X

**i1046 & i1050 Flywheel/Electrical**



## i1046 &amp; i1050 Flywheel / Electrical

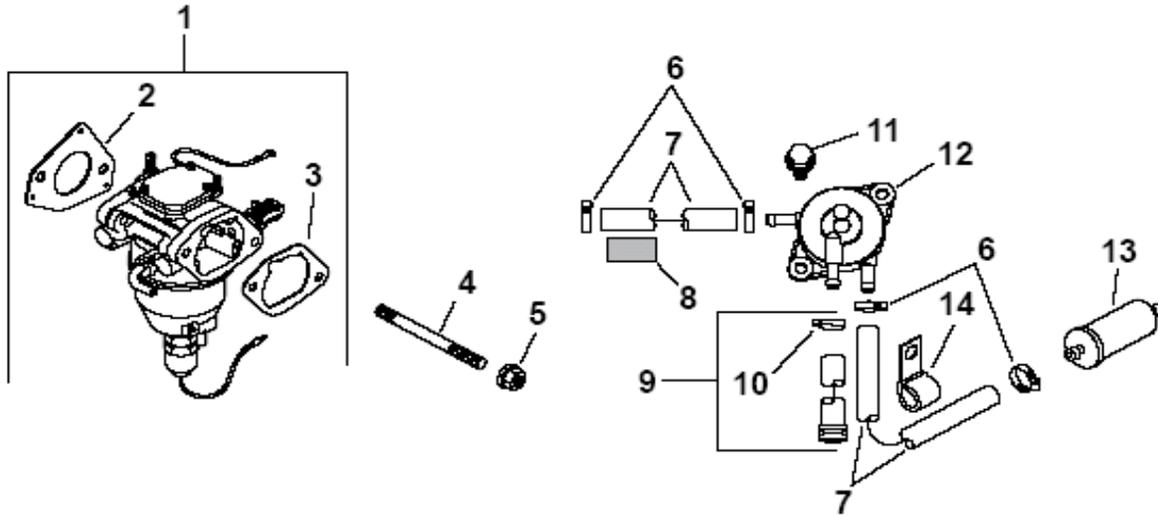
## Flywheel:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
1	Grass Screen	0.1	X	X
<b>NOTE: <i>The Following Times Include Blower Housing Removal &amp; Installation.</i></b>				
5	Fan	1.2	X	X
6	Flywheel		X	X

## Electrical:

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
14	Spark Plug	0.1	X	X
<b>NOTE: <i>The Following Times Include Blower Housing Removal &amp; Installation.</i></b>				
15	Ignition Module (Both Modules)	0.7	X	X
10	Regulator Rectifer (Includes Testing)	0.8	X	X
11	15 Amp Stator (Includes Testing)	1.5	X	X

i1046 & i1050 Fuel System / Carburetor



Fuel System:

**NOTE: The Following Times Are For Damaged In Shipment Only.**

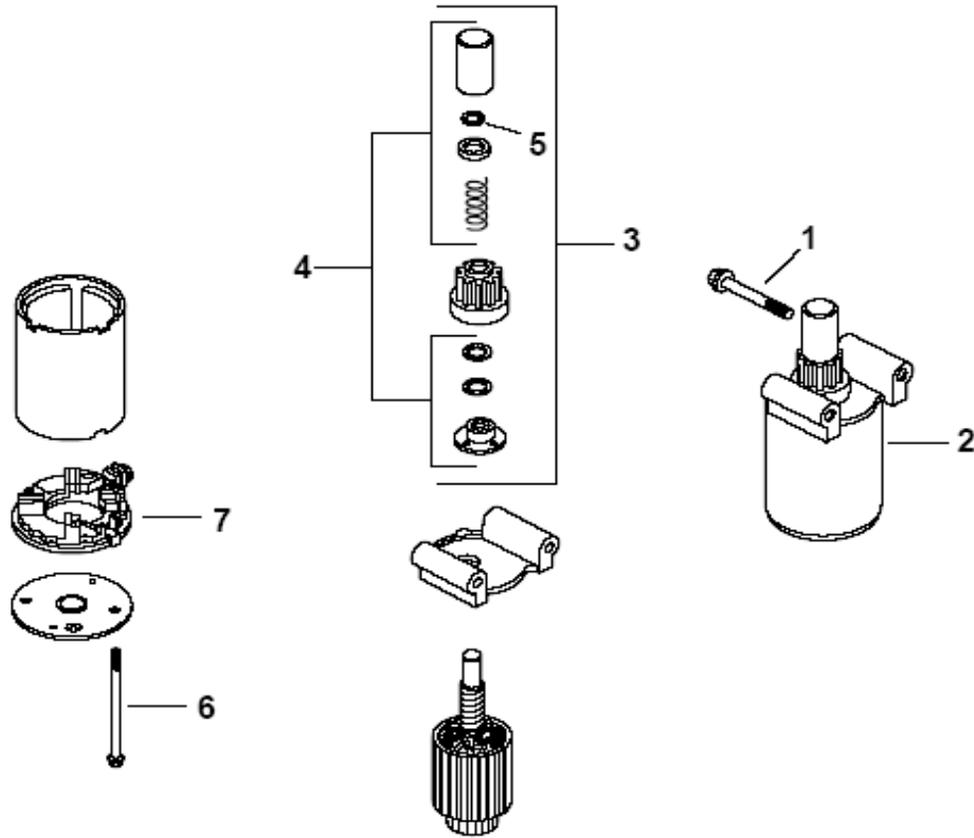
Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
13	Fuel Filter	0.2	X	X
7	Fuel Line (Carb To Fuel Pump) & (Fuel Pump To Filter)	0.3	X	X
12	Fuel Pump		X	X

Carburetor:

**NOTE: The Following Times Include The Air Filter Assembly Removal & Installation.**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
3	Air Cleaner Gasket	0.3	X	X
1	Carburetor Kit		X	X
2	Carburetor Gasket	0.8	X	X
4	Stud		X	X
N/A	Carburetor Adjust	0.5	X	X
N/A	Carburetor Rebuild	1.2	X	X

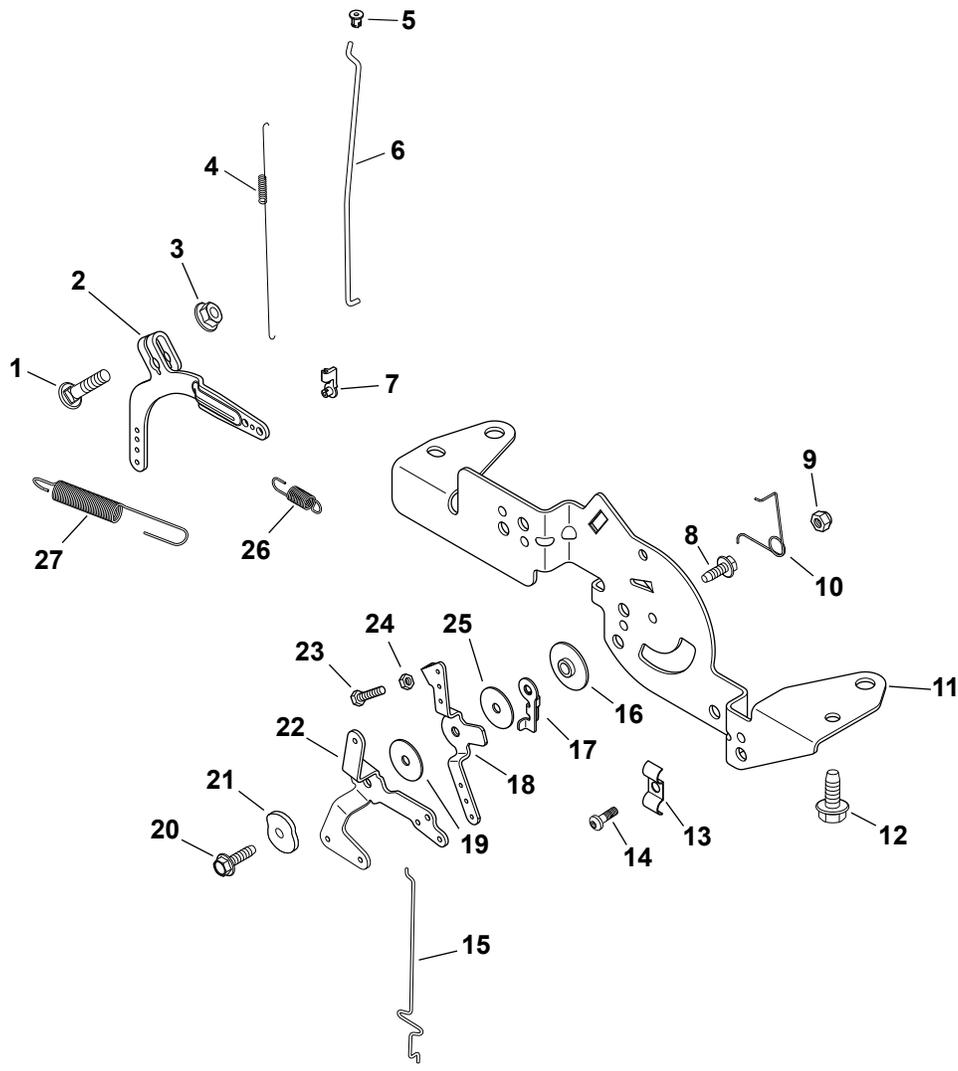
**i1046 & i1050 Starter Motor**



**Starter Motor:**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
2	Starter Assembly	0.5	X	X
3 & 4	Drive Kit & Parts	1.0	X	X
7	End Cap Commutator		X	X

**i1046 & i1050 Engine Controls**



**i1046 & i1050 Engine Controls**

**Engine Controls:**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
2	Governor Lever Adjust	0.5	X	X





**Model i1046 & i1050 Labels**

**Labels:**

Ref. Number	Part Description	R/I Time	Model i1046	Model i1050
N/S	Each Individual Label (NOTE 1)	0.2	X	X

**NOTE 1: Time Includes Removal Of Old Label, Cleaning & Installtion of New Label.**

**Example:**  
If a total of three (3) labels were replaced the total time would be 0.6.

Label 1	0.2
Label 2	0.2
Label 3	0.2
	<hr/>
	0.6





CUB CADET LLC, P.O. BOX 361 131 CLEVELAND, OHIO 44136-0019