

TIME SCHEDULE AND PROCEDURES

INTRODUCTION TO TIME SCHEDULE AND PROCEDURE MANUAL

GENERAL

This manual provides a general explanation of maintenance and repair functions and the time allotted by Cub Cadet for the accomplishment of each function on Cub Cadet Series 2000 Tractors.

This manual has a master table of contents listing each section in the manual and an introduction that is applicable to all sections. The rest of the manual is divided into sections by tractor model number.

Each page of each tractor model section contains the applicable model number of that section at the top of the page. Each tractor model section consists of: a section cover, a table of contents for the section, the body of the section, and an alphabetical index.

- The section cover provides the Series 2000 Tractor Model Number for that section.
- The table of contents provides the operation number and name and the applicable section page number.
- The body of the manual provides information on the maintenance and repair functions authorized for the model. Additional information on the tabular arrangement of this portion of the section and the related illustrations contained within it is provided below.
- The alphabetical index lists part names, their associated operation numbers, and the related page number.

The purpose of this manual is to supply information on operations and applicable operations numbers to personnel responsible for repairing and/or costing of maintenance functions performed on a Cub Cadet Series 2000 Tractor, especially work required under warranty coverage.

When a warranty claim is to be filed, a *WARRANTY CLAIM FORM #772-3081.4* must be used. If specific information is required, please refer to the Service Policy Binder under Warranty Tab #777-3958B.

EXPLANATION OF COLUMNS IN THE BODY OF EACH SECTION

1. **OPERATION NUMBER** column: An operation number is a number given to each procedure accomplished on a given tractor. The first letter of the operation number identifies the applicable subsection of the Time Schedule and Procedure Manual section for each model. The operation number also, in most cases, appears on related exploded view illustrations of the components that are the subject of a particular operation. See the table of contents for additional information.
2. **OPERATION DESCRIPTION** column: This column names the component that is the subject of the procedure and describes the maintenance functions to be performed. Maintenance functions are defined as follows:
 - a. **Adjust.** To make changes to the variable elements of the equipment to cause the performance of the equipment to meet specifications.
 - b. **Check.** To determine a component's serviceability by comparing physical, mechanical, and/or electrical characteristics against established requirements.
 - c. **Inspect.** To determine a component's serviceability by comparing physical, mechanical, and/or electrical characteristics against established requirements.
 - d. **Overhaul.** To perform complete disassembly of the item, complete cleaning, 100% inspection, replacement of damaged or worn components, reassembly, and reassembly verification.

- e. **Repair.** To restore an unserviceable piece of equipment to a serviceable condition by accomplishing only the required maintenance functions.
 - f. **Remove/Install.** To remove a part and install the same part into the same position without any further maintenance.
 - g. **Replace.** To substitute a serviceable component for an unserviceable component.
3. **OPERATION INCLUDES** column: This column describes each operation and related operation number, or numbers, needed to accomplish the procedure. The **FLAT RATE TIME** column includes the times required to accomplish all subsidiary operations.
 4. **SERVICE MANUAL NUMBER** column: Provides reference to appropriate service manual.
 5. **FLAT RATE TIME** column: This column shows the amount of time allotted for the operation. This time is cumulative and includes the time allotted to accomplish the operation specified in the **OPERATION DESCRIPTION** column and all **OPERATION NUMBERS** listed in the **OPERATION INCLUDES** column.

HOW TO USE THIS MANUAL

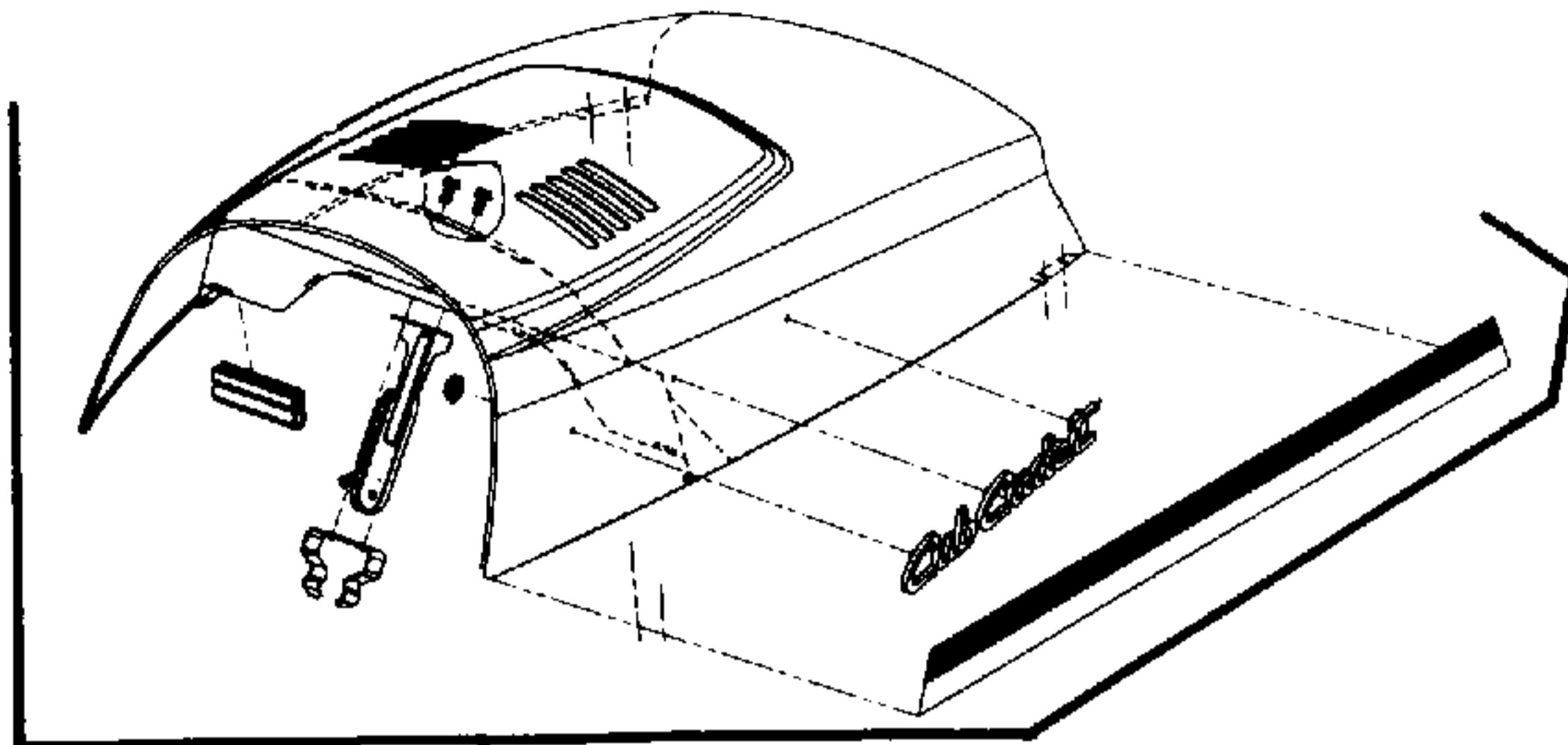
This document contains several methods of locating applicable procedures: a table of contents in operation number and page number order, alphabetical index by part names with their associated operation numbers, and, within the manual, exploded view illustrations with the associated operation number marked next to them.

Operations can be found in one of several ways:

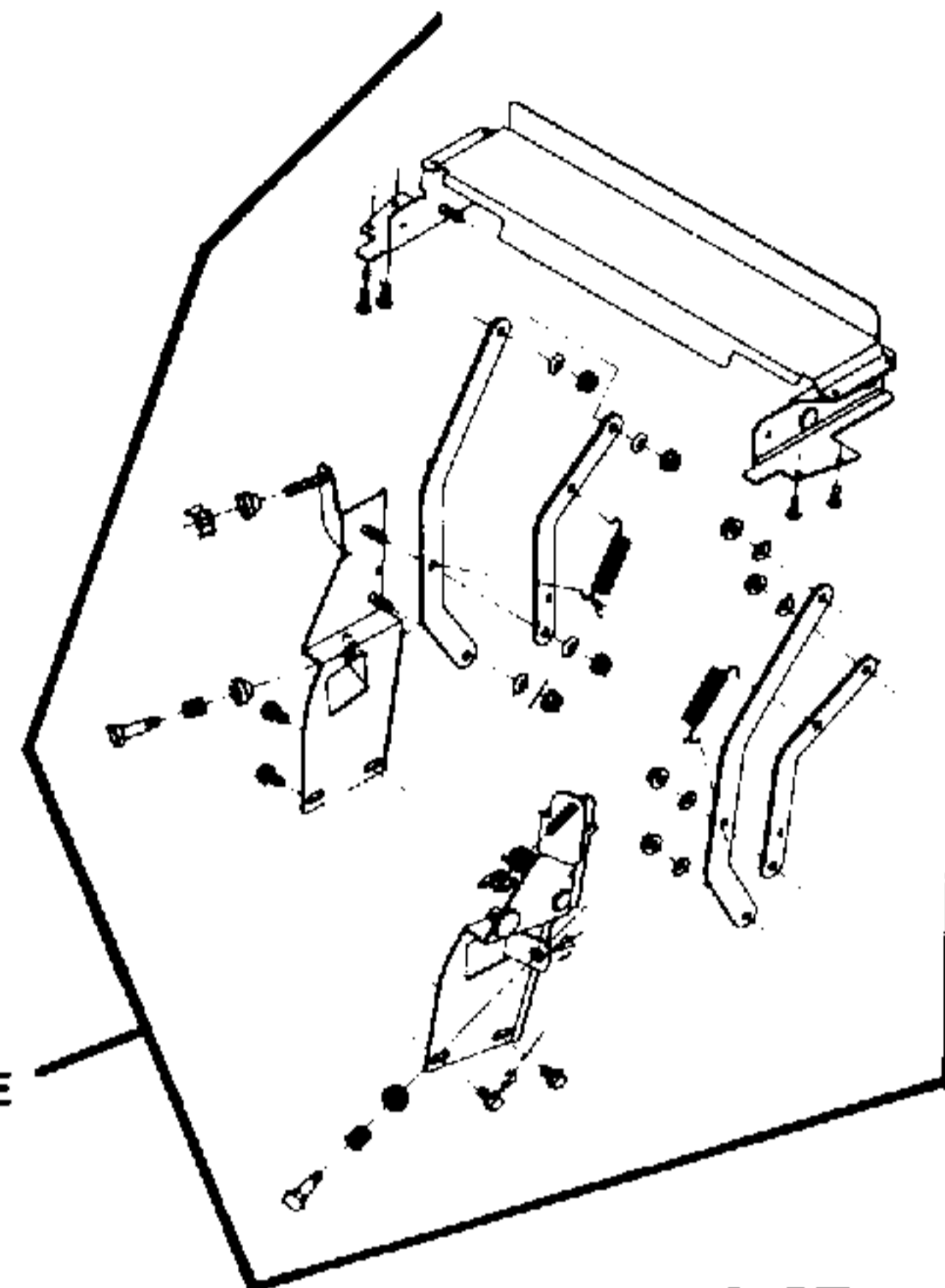
1. When a warranty claim is received and an operation number is provided, refer to the table of contents, which is in operation number order, to find the page number upon which the information related to that operation is provided.
2. When a warranty claim is received and the operation number is not provided but the operation description or part name is, then refer to the alphabetical index to find appropriate operation and page numbers.
3. Additionally, scanning the exploded views contained in the manual will provide information on operation numbers related to the portion of the tractor illustrated.

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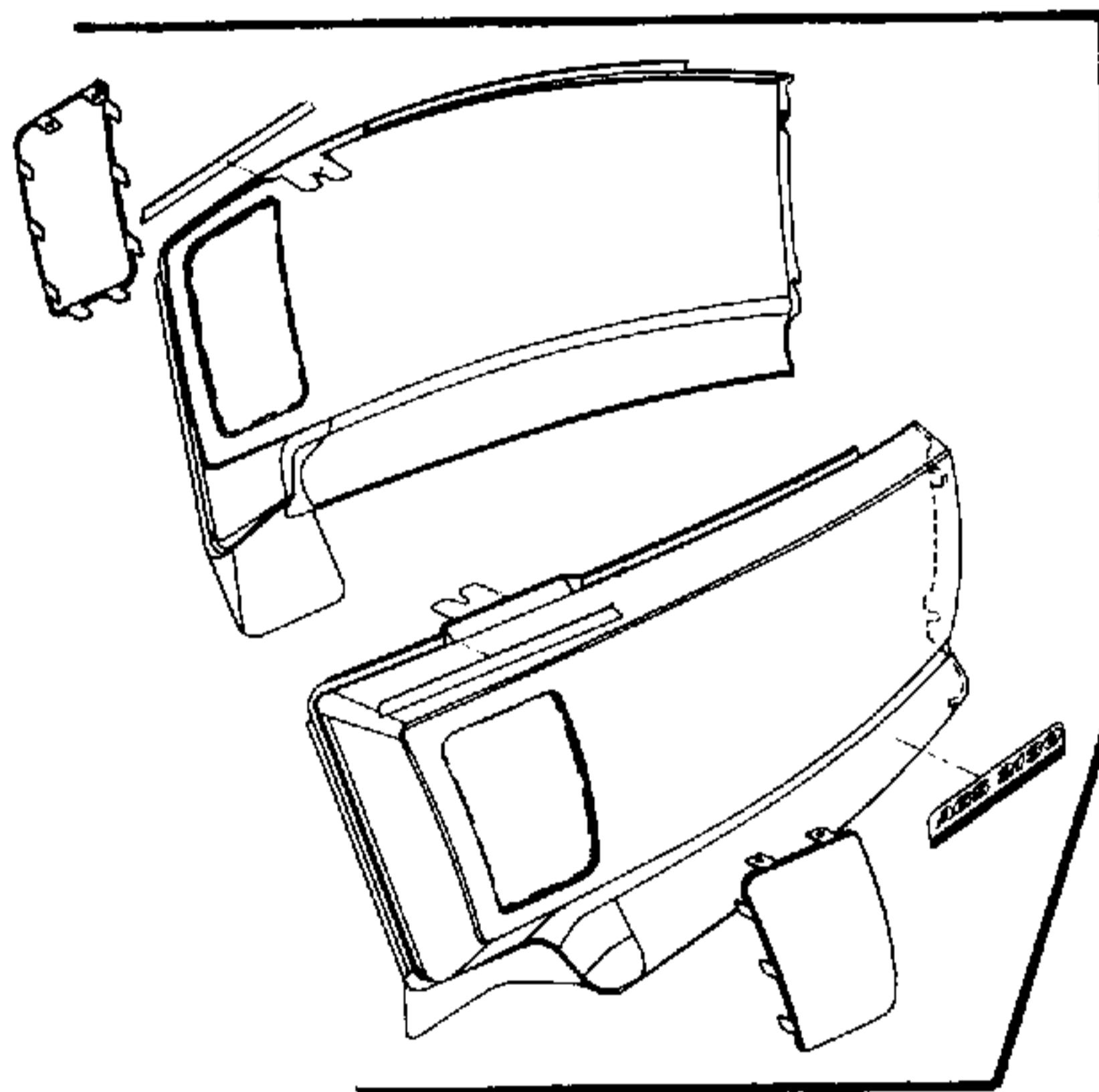
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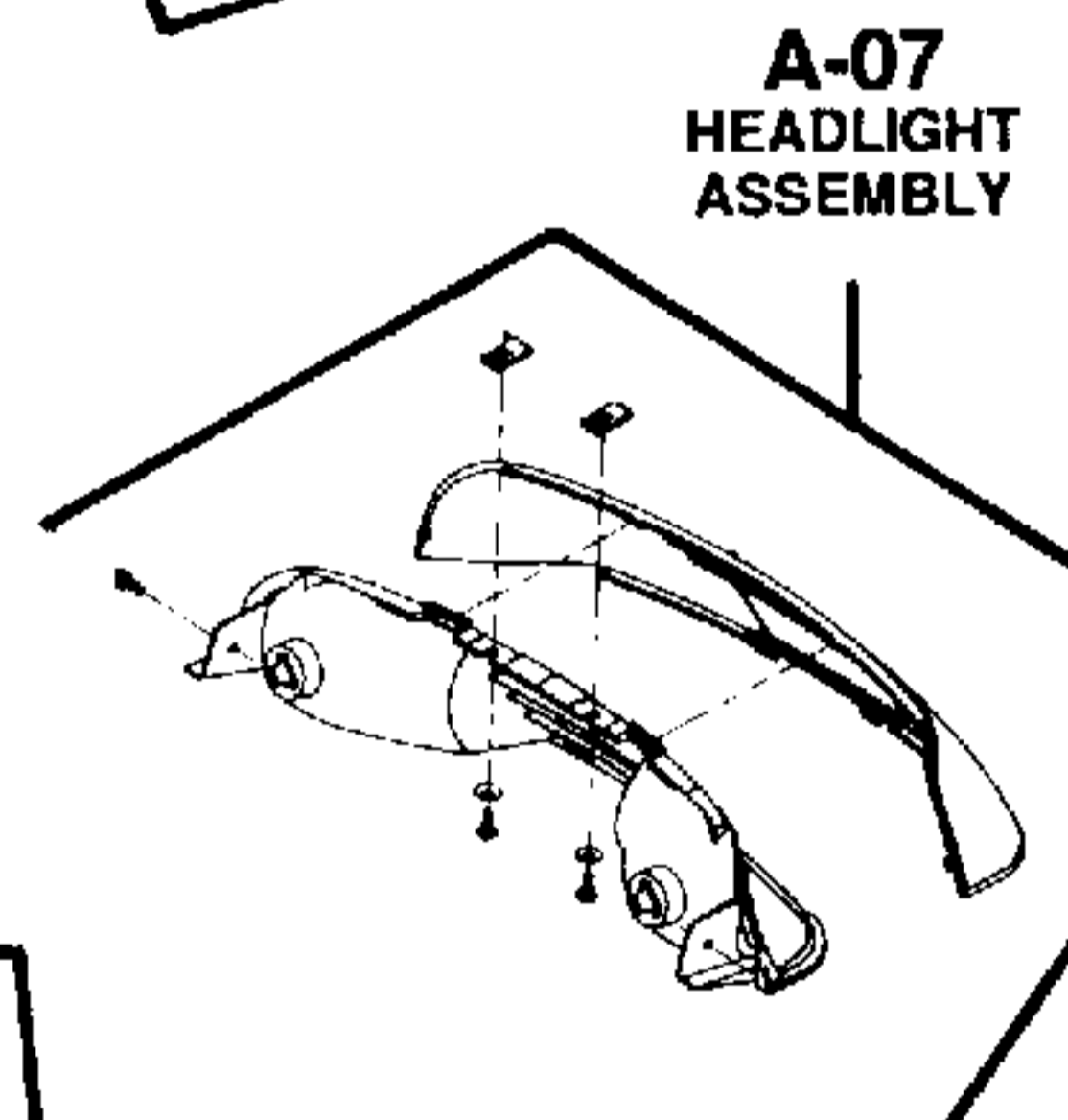
A-01
HOOD



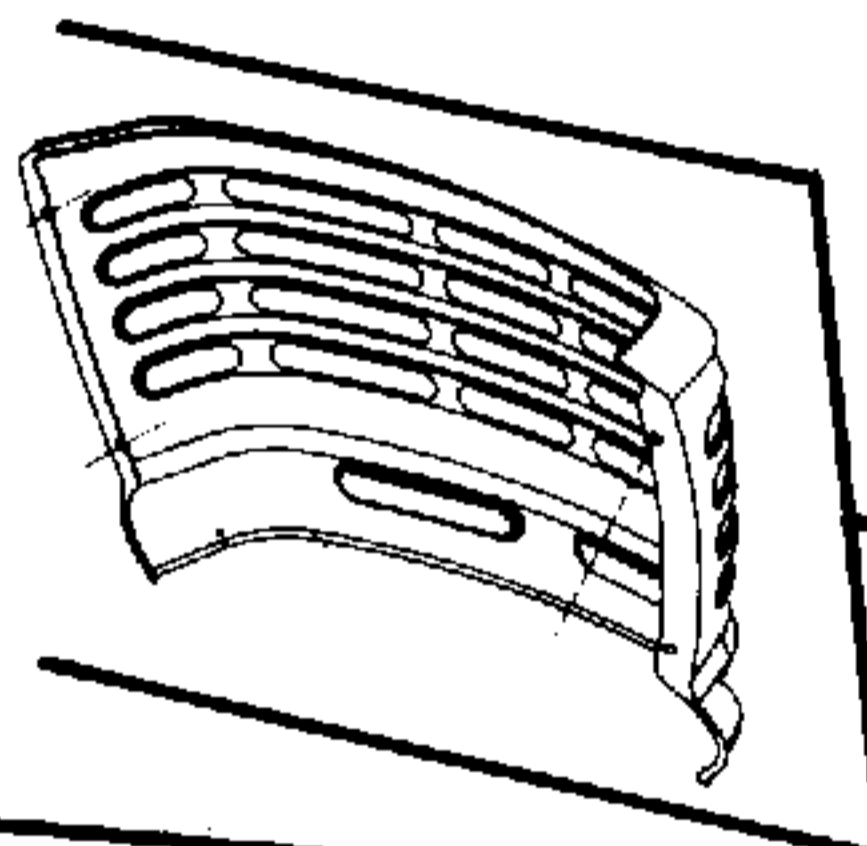
A-02
HOOD HINGE
ASSEMBLY



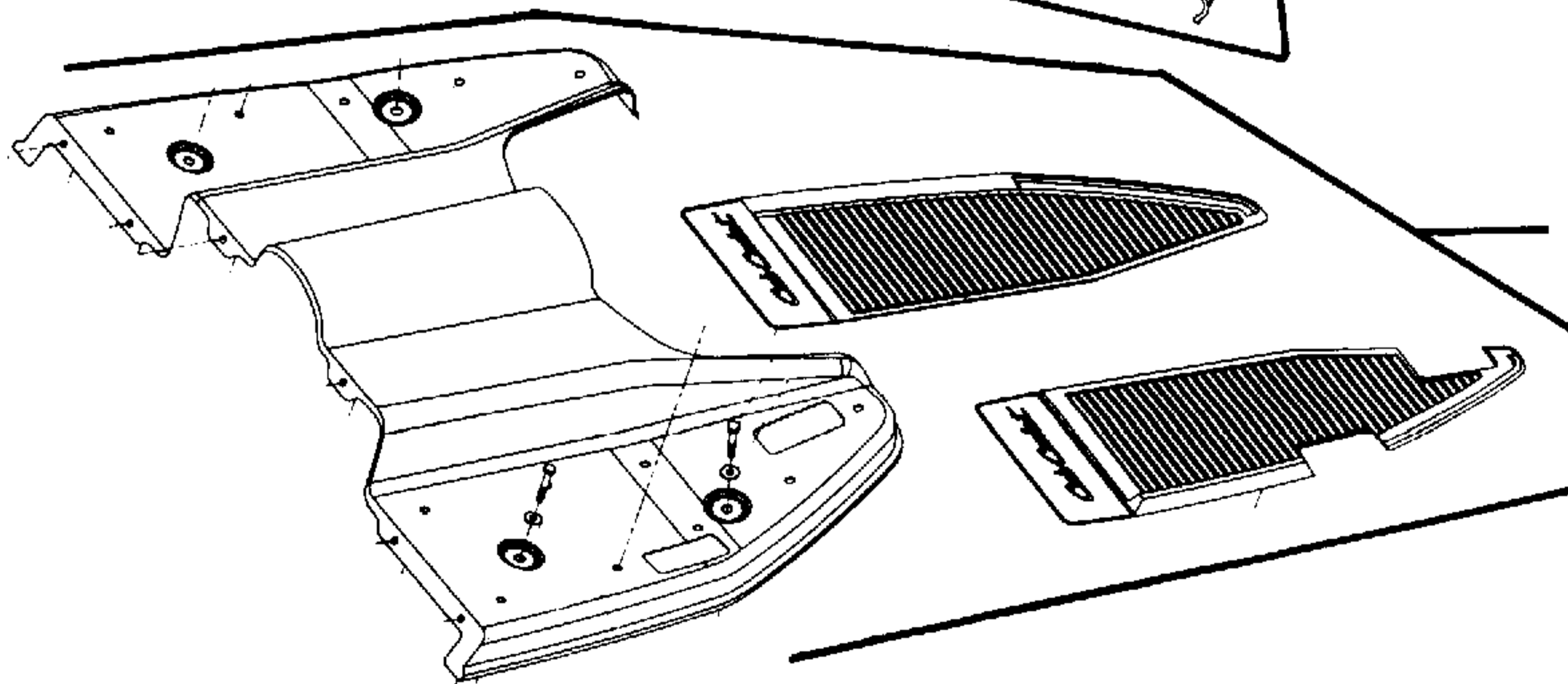
A-03
SIDE PANEL



A-07
HEADLIGHT
ASSEMBLY



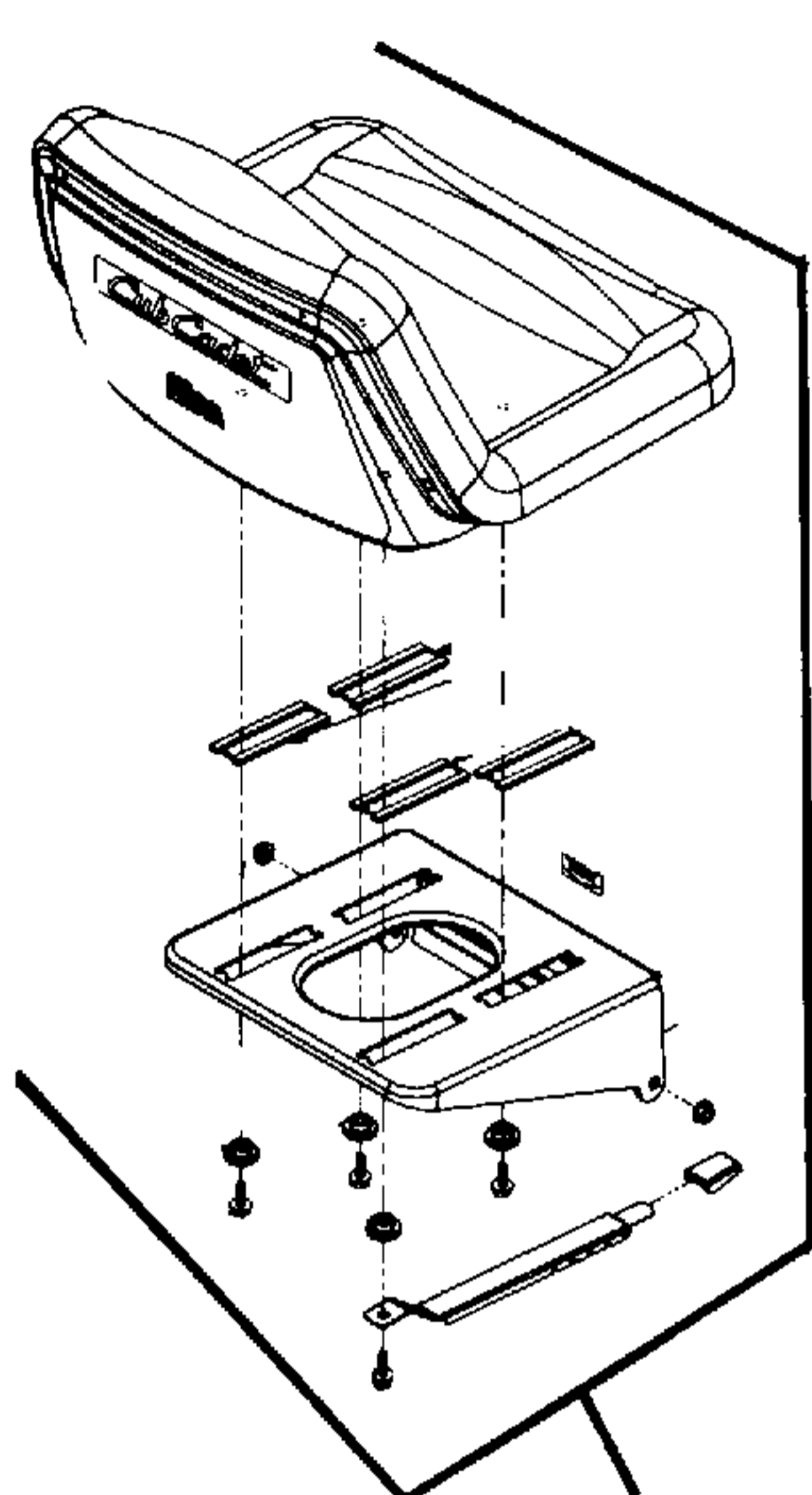
A-14
GRILLE AND
HOUSING



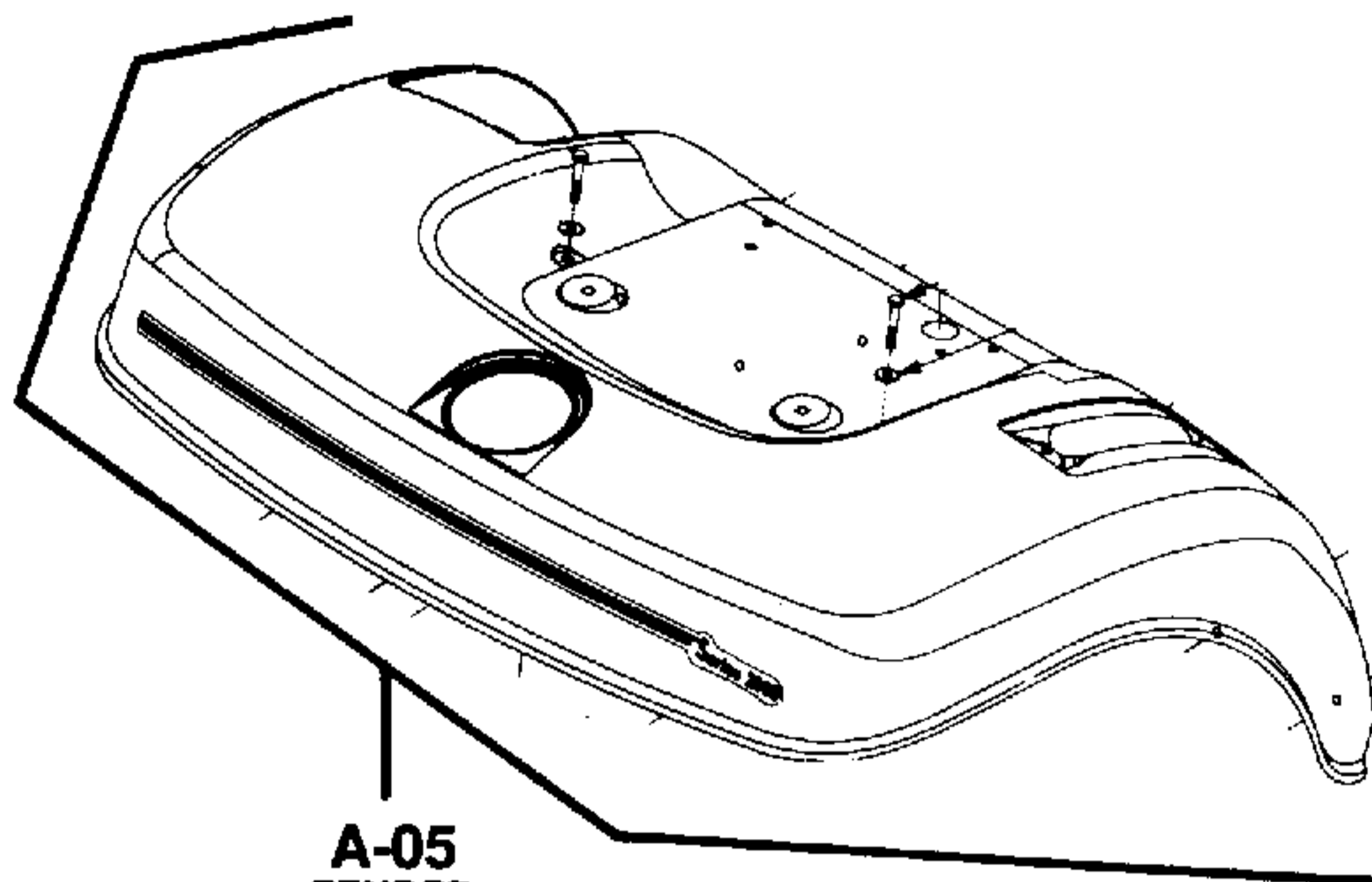
A-06
FOOT REST

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
A-01	Hood: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood from hood hinge assembly. 2. If replacement hood is required: <ol style="list-style-type: none"> a. Remove Cub Cadet script graphic and hood latch clip from hood. b. Install graphic and clip onto new hood. 3. Reassemble. 	772-4232	0.5
A-02	Hood Hinge: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood hinge assembly from hood (A-01) and grille. 2. Replace or reinstall hood hinge assembly. 3. Reassemble. 	772-4232	0.5
A-03	Side Panel: Remove/Install or Replace (one side only)	<ol style="list-style-type: none"> 1. Remove side panel. 2. If replacement of panel is required, install screen. 3. Reassemble. 	772-4232	0.2
A-04	Seat: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove seat pivot bracket and seat from fender. 2. Remove seat pivot bracket from seat. 3. Replace or install seat onto seat pivot bracket. 4. Reassemble. 	772-4232	0.2
A-05	Fender: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove seat (A-04). 2. Disconnect electrical wiring. 3. Remove fender. 4. Install/replace fender. 5. Reassemble. 	772-4232	0.3
A-06	Foot Rest: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace foot rest. 2. If replacement of foot rest is required, remove and replace foot pads. 3. Reassemble. 	772-4232	0.1

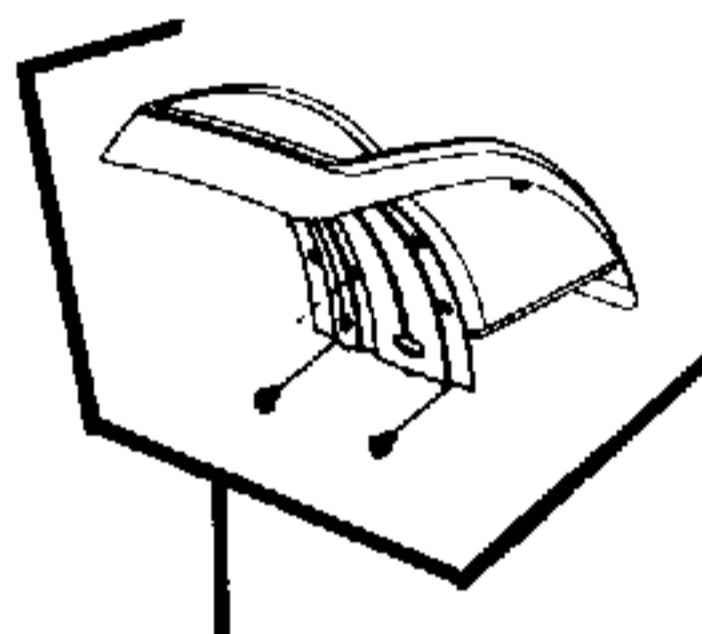
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
A-07	Headlight Assembly: Remove/Install or Replace	1. Remove hood (A-01). 2. Replace or reinstall headlight lens or reflector.	772-4232	0.7
A-08	Implement Lift Cover: Replace/Install	Replace or reinstall implement lift cover.	772-4232	0.1
A-09	Shifter Cover: Replace/Install	Replace or reinstall shifter cover.	772-4232	0.1
A-10	Instrument Panel Dash Label: Remove/Install or Replace	Remove/install or replace instrument panel dash label.	772-4232	0.1
A-11	Instrument Panel: Remove/Install or Replace	1. Remove side panel (A-03). 2. Remove battery and all electrical components (F-02). 3. Remove steering wheel (C-01). 4. Remove throttle cable (A-12). 5. Remove choke cable (A-13). 6. Remove dash label (A-10). 7. Remove/install or replace instrument panel. 8. Reassemble.	772-4232	1.0
A-12	Throttle Control: Remove/Install or Replace	1. Remove side panel (A-03). 2. Remove battery (F-02). 3. Remove throttle control knob. 4. Remove/install or replace throttle control. 5. Reassemble.	772-4232	0.5
A-13	Choke Cable With Nut: Remove/Install or Replace	1. Remove side panels (A-03). 2. Remove battery (F-02). 3. Remove/install or replace choke cable with nut. 4. Reassemble.	772-4232	0.5



A-04
SEAT

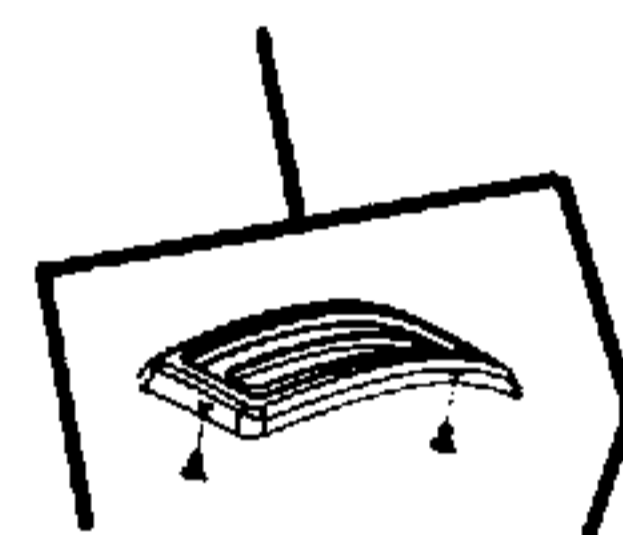


A-05
FENDER



A-08
IMPLEMENT
LIFT COVER

A-09
SHIFTER COVER



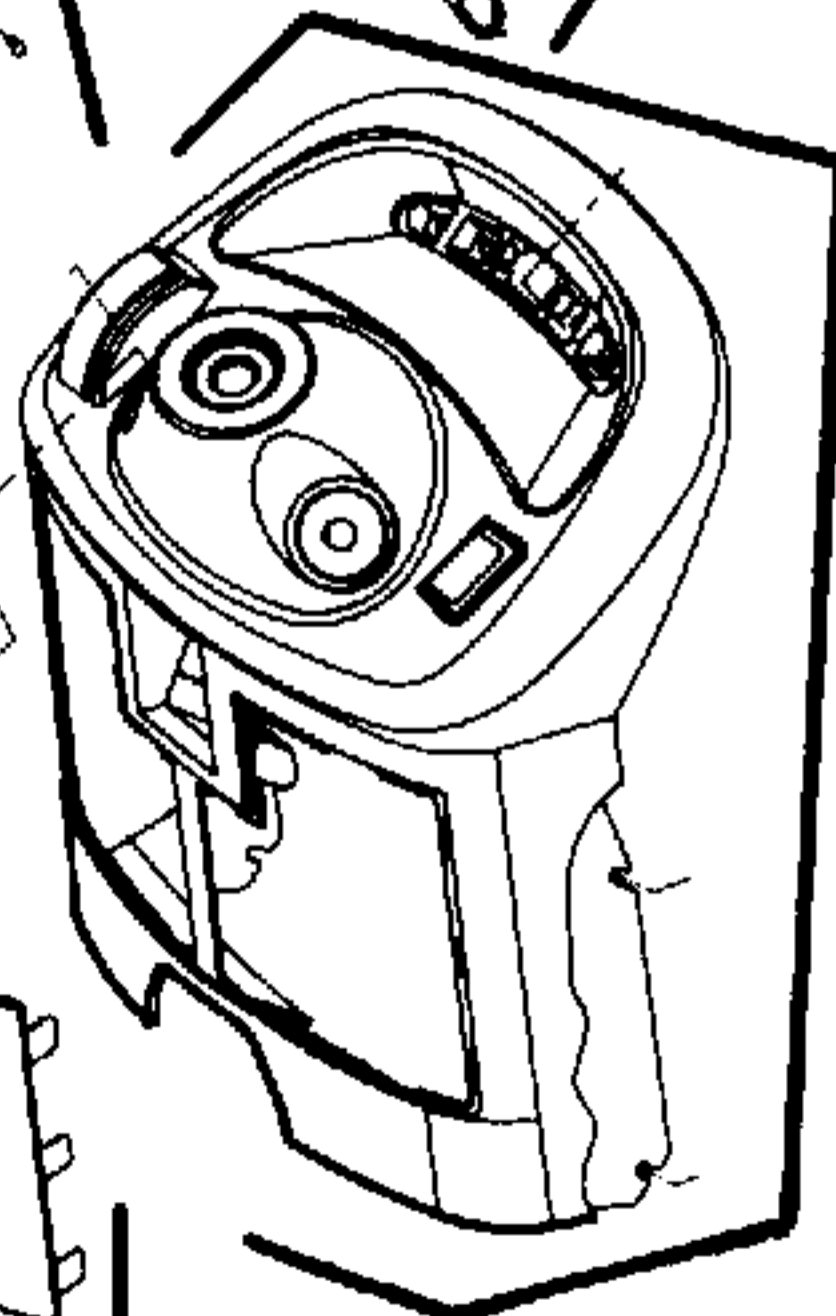
A-12
THROTTLE CONTROL



A-10
INSTRUMENT
PANEL DASH
LABEL



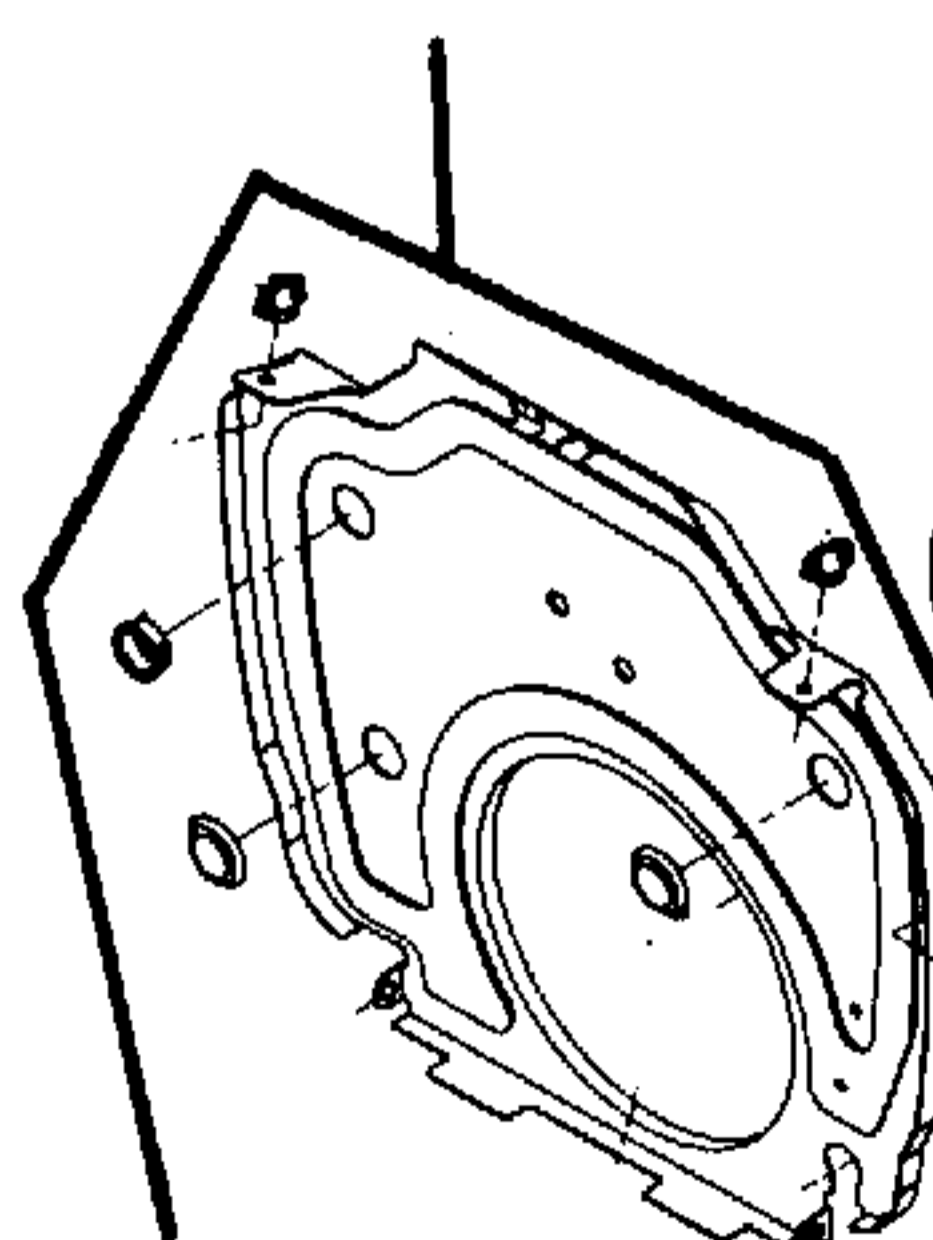
A-11
INSTRUMENT
PANEL



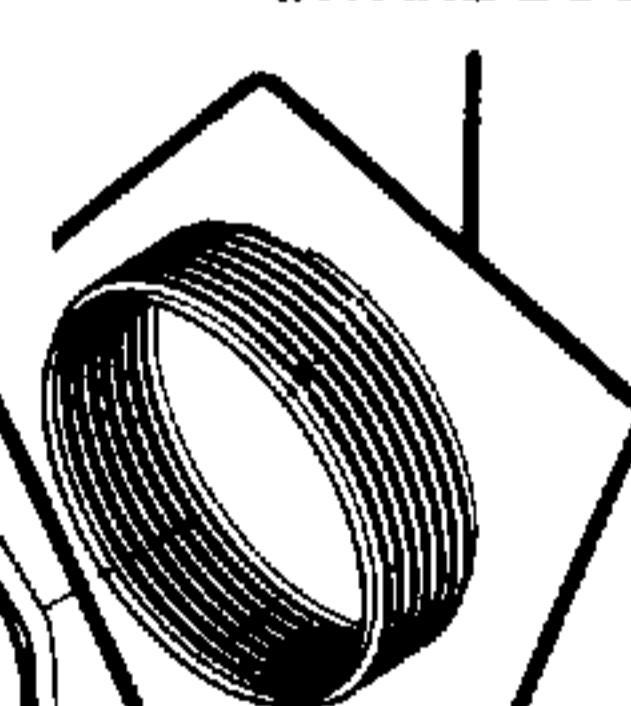
A-13
CHOKE CABLE
WITH NUT



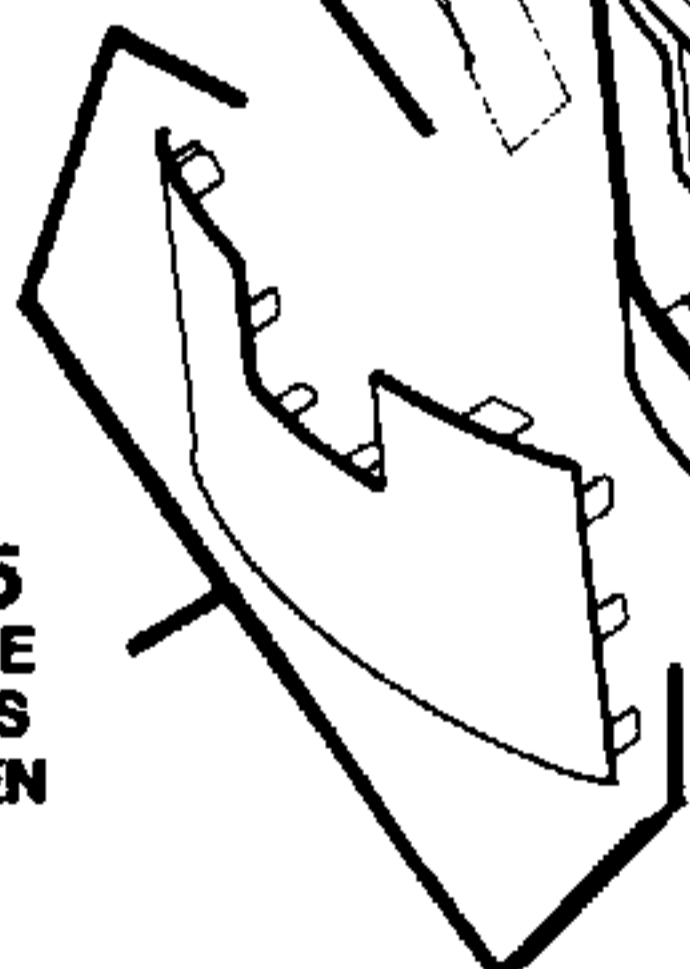
A-17
BULKHEAD



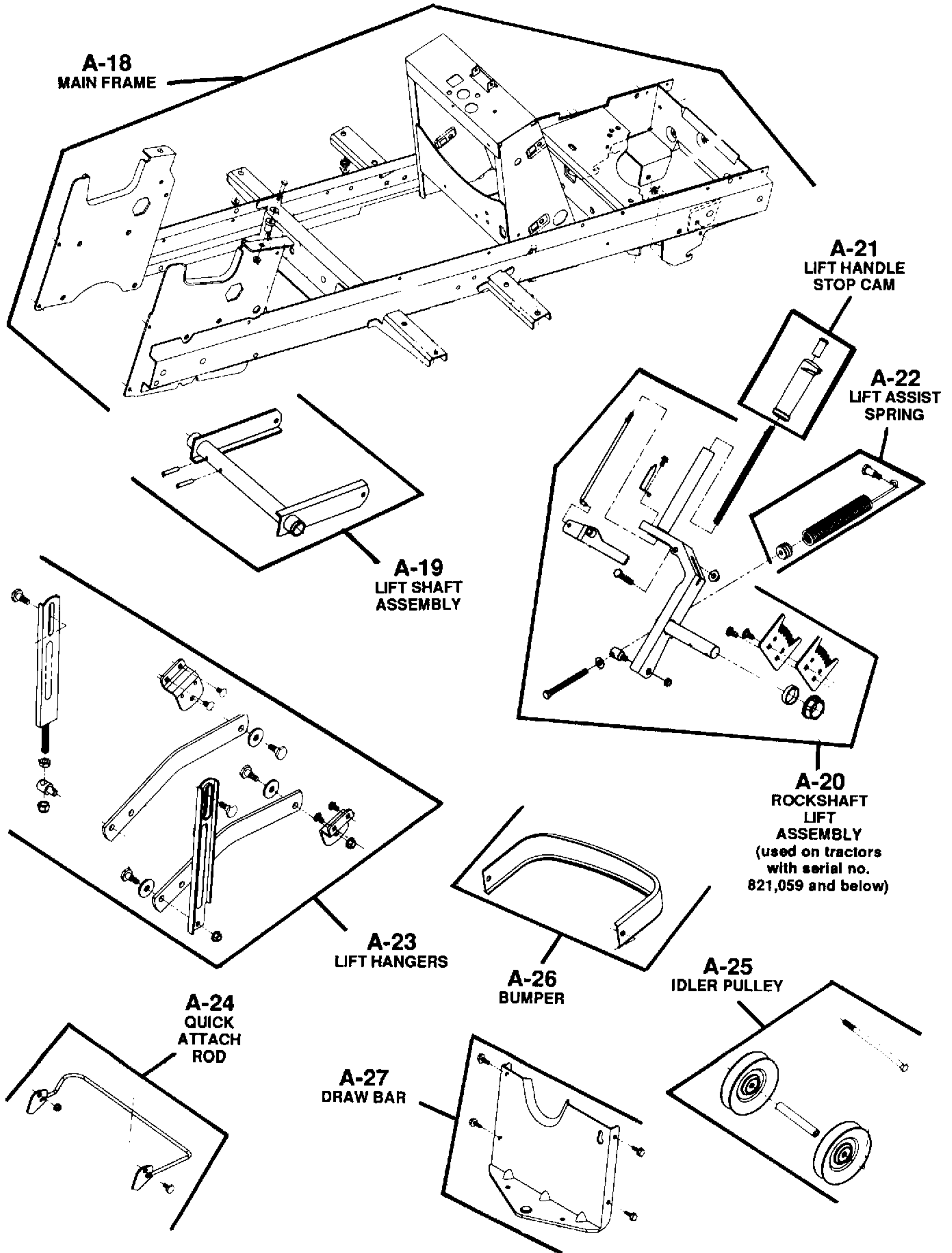
A-16
INTAKE BOOT



A-15
INTAKE
GRASS
SCREEN

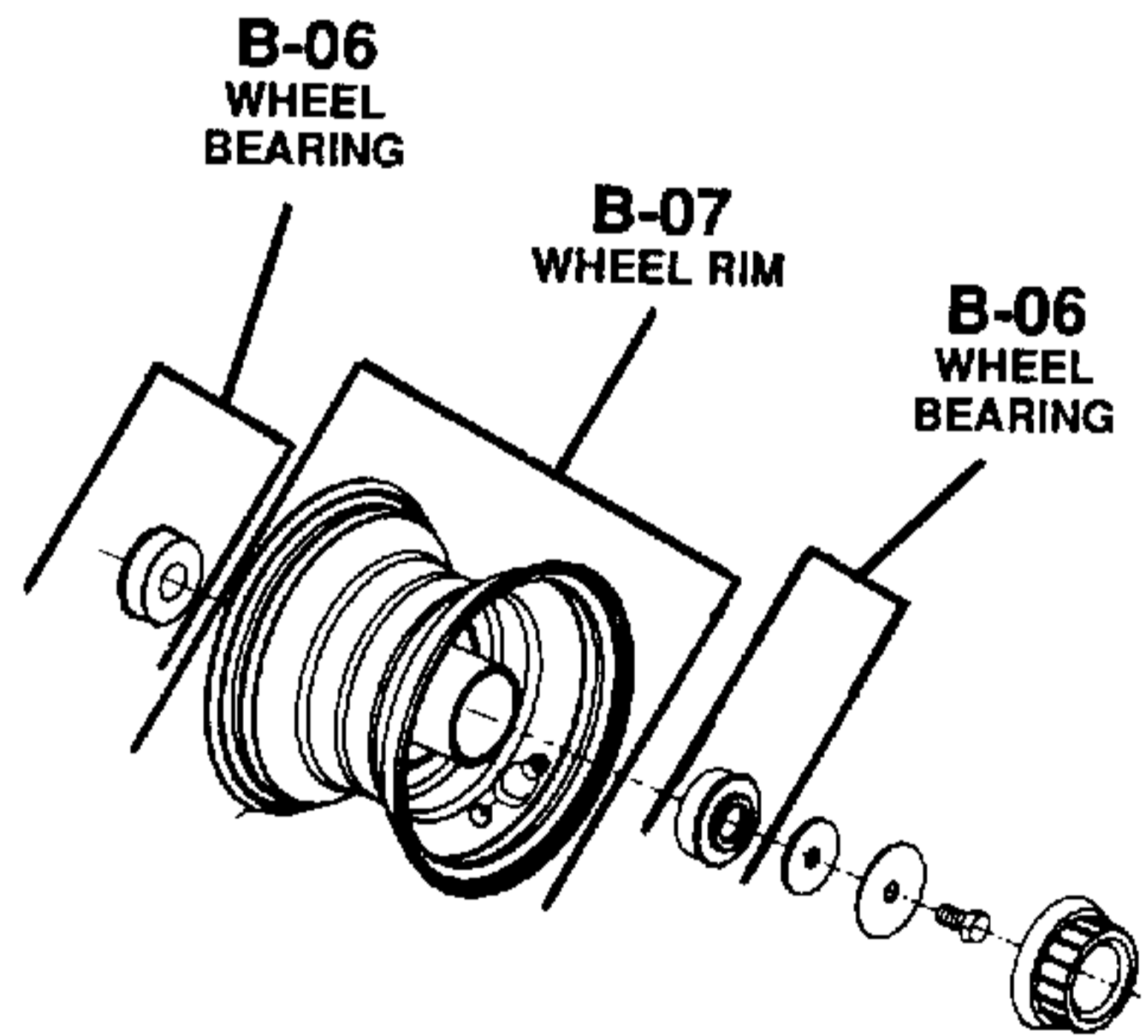
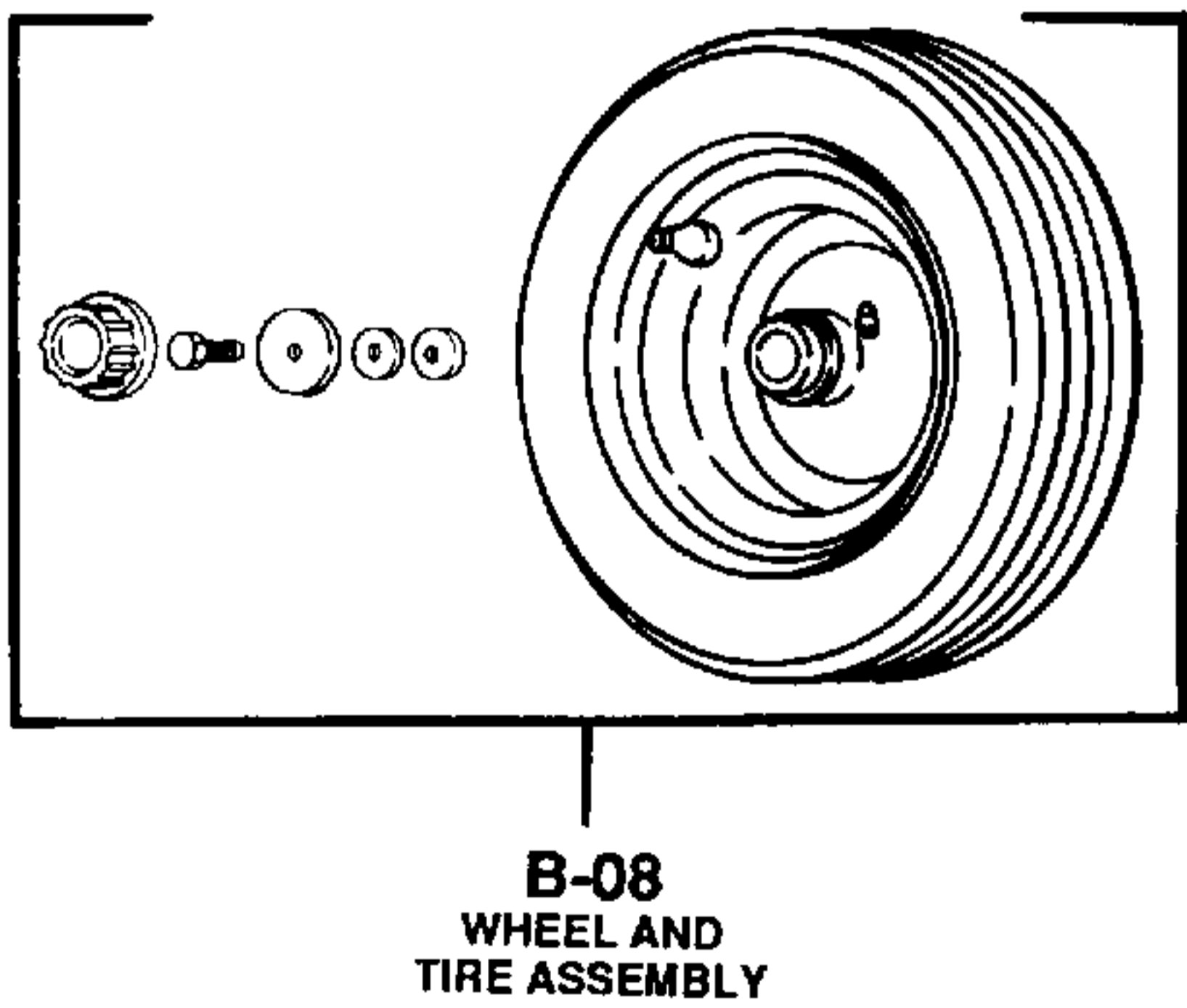
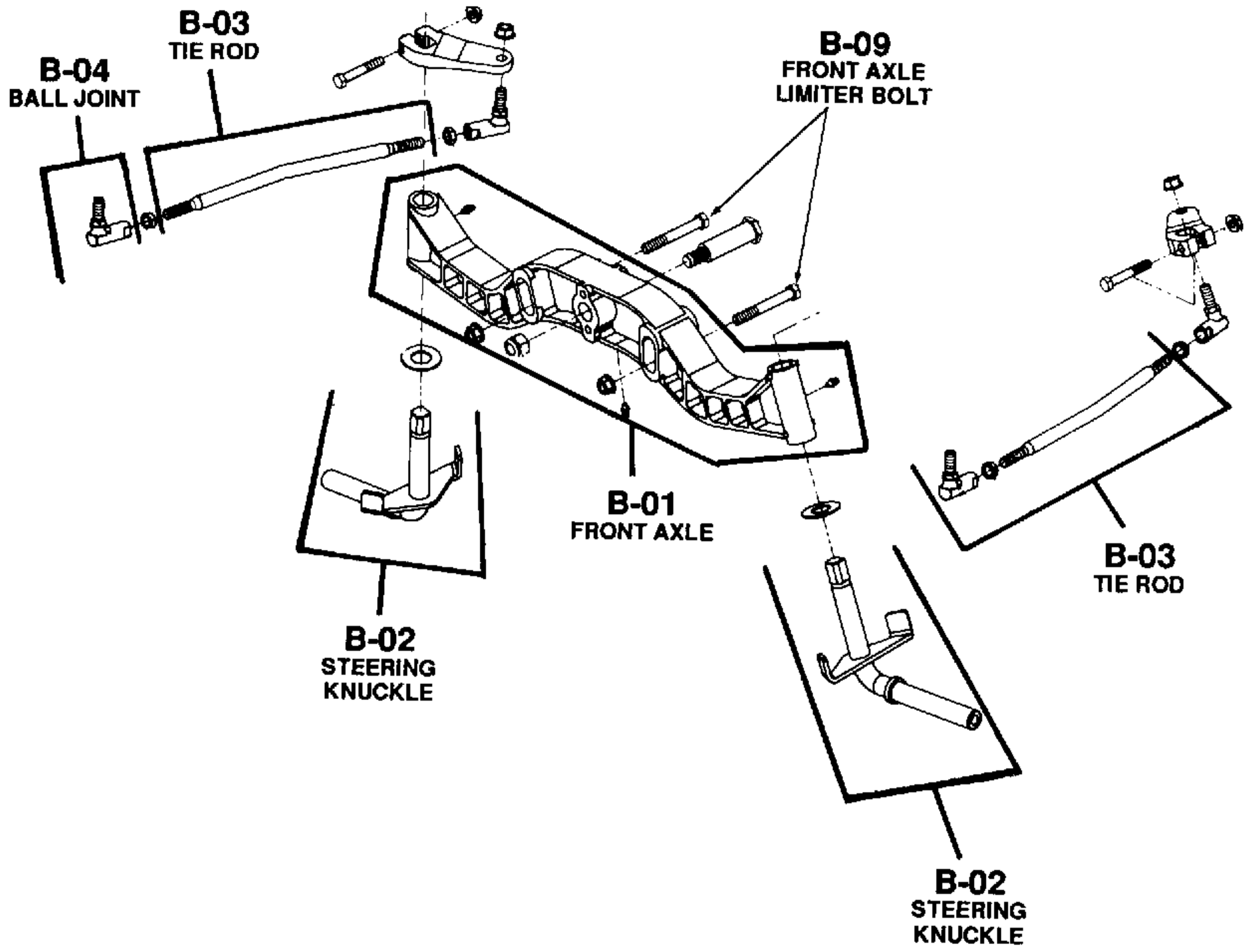


OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
A-14	Grille and Housing: Remove/Install or Replace	1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove/install or replace grille and housing. 4. Reassemble.	772-4232	0.5
A-15	Intake Grass Screen: Replace/Install	Replace or reinstall intake grass screen.	772-4232	0.5
A-16	Intake Boot: Remove/Install or Replace	1. Remove engine (D-10T). 2. Replace or install intake boot. 3. Reassemble.	772-4232	1.0
A-17	Bulkhead: Remove/Install or Replace	1. Remove engine (D-10T). 2. Replace or install bulkhead. 3. Reassemble.	772-4232	1.0
A-18	Main Frame: Replace	1. Disconnect all necessary wiring and linkage. 2. Remove hood (A-01), grille and housing (A-14), fender (A-05), engine, steering wheel (C-01), fuel tank (E-01), pedestal assembly, steering assembly (A-11 and C-04) and frame assembly. 3. Replace frame. 4. Reassemble. 5. Make all necessary adjustments.	772-4232	11.2
A-19	Lift Shaft Assembly: Remove/Install or Replace	1. Remove seat (A-04). 2. Remove fenders (A-05). 3. Remove/install or replace lift shaft assembly. 4. Reassemble.	772-4232	1.0

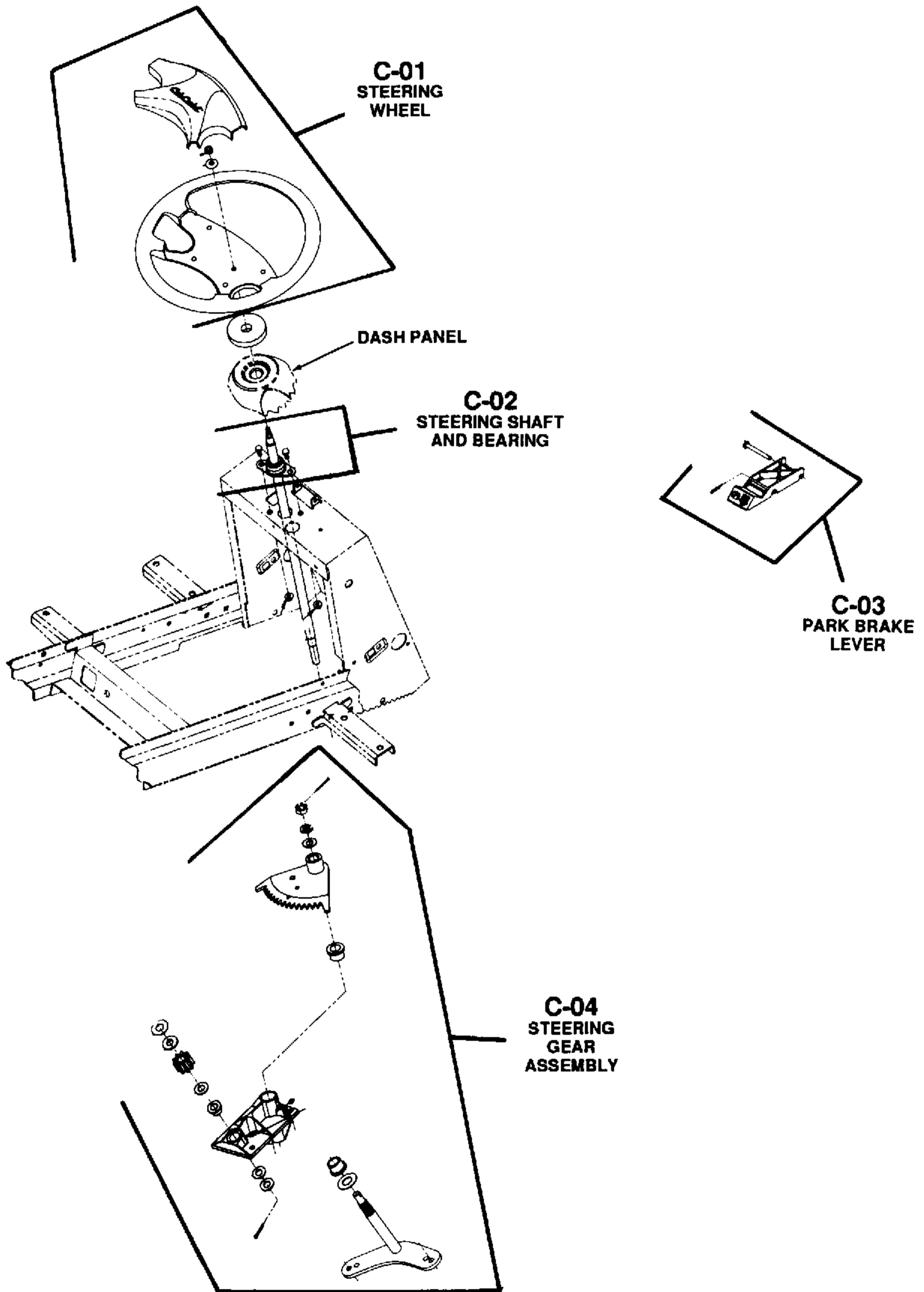


OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
A-20	Rockshaft Lift Assembly: Remove/Install or Replace	1. Remove seat (A-04). 2. Remove fenders (A-05). 3. Remove/install or replace rockshaft lift assembly. 4. Reassemble.	772-4232	1.2
A-21	Lift Handle Stop Cam: Remove/Install or Replace	Remove/install or replace lift handle.	772-4232	0.1
A-22	Lift Assist Spring: Remove/Install or Replace	Remove/install or replace lift assist spring.	772-4232	0.3
A-23	Lift Hangers: Remove/Install or Replace	Remove/install or replace lift hangers left or right.	772-4232	0.3
A-24	Quick Attach Rod: Remove/Install or Replace	Remove/install or replace quick attach rod.	772-4232	0.2
A-25	Idler Pulley: Remove/Install or Replace	Remove/install or replace idler pulley.	772-4232	0.2
A-26	Bumper: Remove/Install or Replace	Remove/install or replace front bumper.	772-4232	0.2
A-27	Draw Bar: Remove/Install or Replace	Remove/install or replace draw bar.	772-4232	0.3

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
B-01	Front Axle Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove both front wheel assemblies (B-08). 3. Disconnect and remove both steering knuckles (B-02). 4. Disconnect tie rod arm (B-03). 5. Remove/install or replace front axle assembly. 6. Reassemble. 7. Adjust toe-in (B-05). 8. Lower tractor. 	772-4232	0.1
B-02	Steering Knuckle: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove wheel assembly (B-08). 3. Disconnect steering knuckle from ball joint and remove from axle. 4. Remove/install or replace steering knuckle. 5. Reassemble. 6. Adjust toe-in (B-05). 7. Lower tractor. 	772-4232	0.4
B-03	Tie Rod: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise tractor. 2. Disconnect from steering knuckle. 3. Remove ball joints (B-04). 4. Remove/install or replace tie rod. 5. Reassemble. 6. Set toe-in (B-05). 7. Lower tractor. 	772-4232	0.4
B-04	Ball Joints: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove/install or replace ball joint. 3. Adjust toe-in (B-05). 4. Lower tractor. 	772-4232	0.3
B-05	Toe-In Adjust:	<ol style="list-style-type: none"> 1. Raise tractor. 2. Make all necessary adjustments. 3. Lower tractor. 	772-4232	0.3

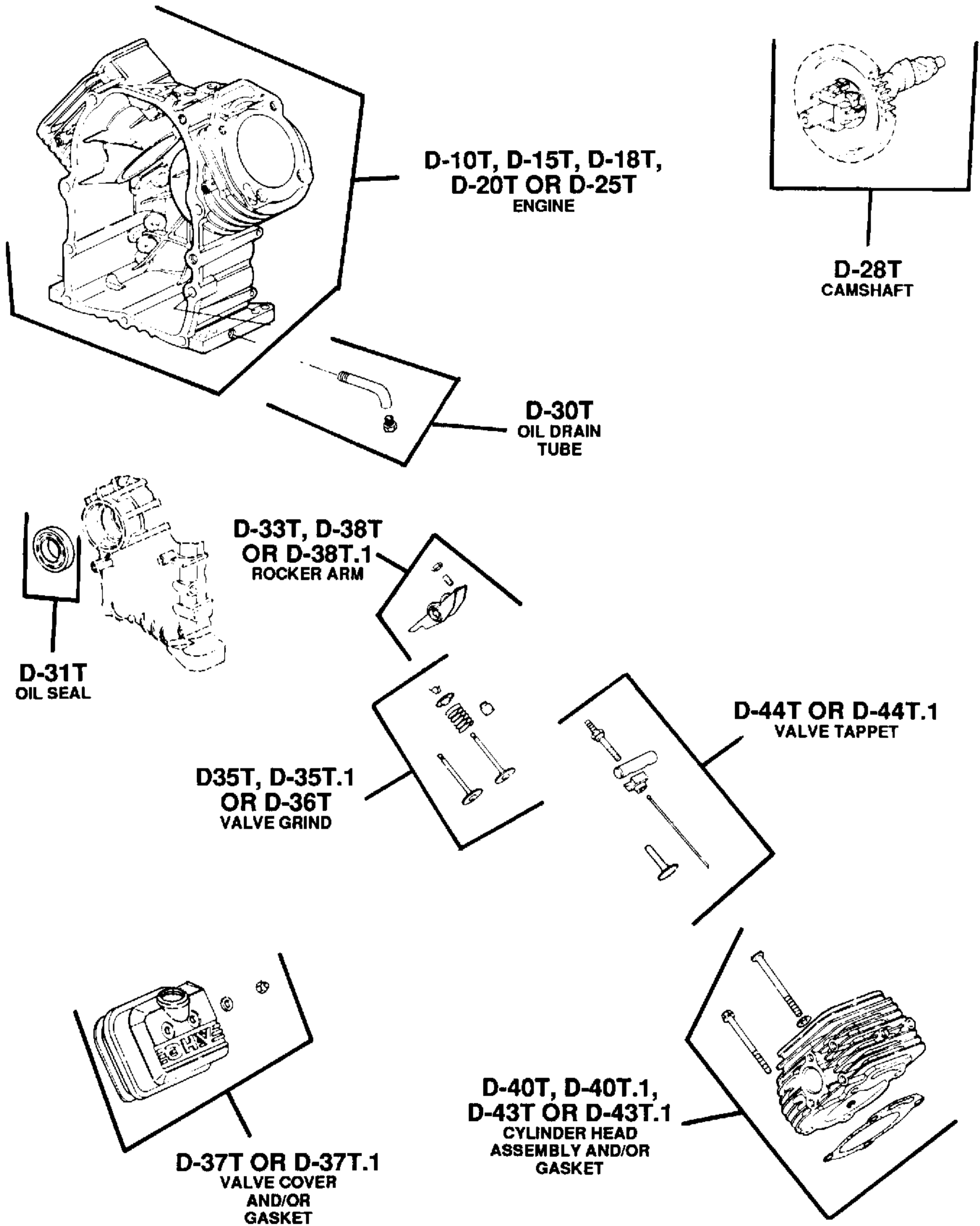


OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
B-06	Wheel Bearings: Remove/Install or Replace (one wheel only)	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove wheel and tire assembly (B-08). 3. Remove/install or replace wheel bearing(s). 4. Reassemble. 5. Lower tractor. 	772-4232	0.3
B-07	Wheel Rim: Remove/Install or Replace (one side only)	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove wheel and tire assembly (B-08). 3. Disassemble tire from rim. 4. Remove and replace rim on tire. 5. Reassemble. 6. Lower tractor. 	772-4232	0.3
B-08	Wheel and Tire Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove and replace wheel and tire assembly. 3. Install on tractor. 4. Lower tractor. 	772-4232	0.1
B-09	Front Axle Limiter Bolt: Adjust	<ol style="list-style-type: none"> 1. Raise tractor. 2. Adjust limiter bolt. 3. Lower tractor. 	772-4232	0.3



OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
C-01	Steering Wheel: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove steering wheel cap. 2. Remove hex nut and flat washer from upper steering shaft. 3. Remove/install or replace steering wheel. 4. Reassemble. 	772-4232	0.2
C-02	Steering Shaft and Bearing: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove battery (F-02), battery tray assembly and intake baffles. 3. Remove steering wheel (C-01). 4. Remove/install or replace steering shaft and/or bearing. 5. Reassemble. 	772-4232	0.4
C-03	Park Brake Lever: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove battery (F-02). 3. Remove steering wheel (C-01) and shaft (C-02). 4. Remove/install or replace park brake lever. 5. Reassemble. 	772-4232	0.6
C-04	Steering Gear Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove steering shaft (C-02). 3. Remove tie rod (B-03). 4. Remove/install or replace steering gear assembly. 5. Reassemble. 	772-4232	1.0

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-10T	Engine: Remove/Install or Replace	1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Disconnect all controls and connections. 5. Remove/install or replace engine. 6. Reconnect all controls and connections. 7. Reassemble tractor. 8. Adjust all controls.	BS-272144-9	1.0
D-15T	Short Block: Remove/Install or Replace	1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Disconnect all controls and connections. 5. Remove engine (D-10T). 6. Disassemble engine. 7. Remove/install or replace short block. 8. Reassemble engine. 9. Reconnect all controls and connections. 10. Reassemble tractor. 11. Adjust all controls.	BS-272144-9 772-4232	4.5
D-18T	Miniblock: Remove/Install or Replace	1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Disconnect all controls and connections. 5. Remove engine (D-10T). 6. Completely disassemble engine. 7. Remove/install or replace miniblock. 8. Reassemble engine. 9. Reconnect all controls and connections. 10. Reassemble tractor. 11. Adjust all controls.	BS-272144-9 772-4232	5.5

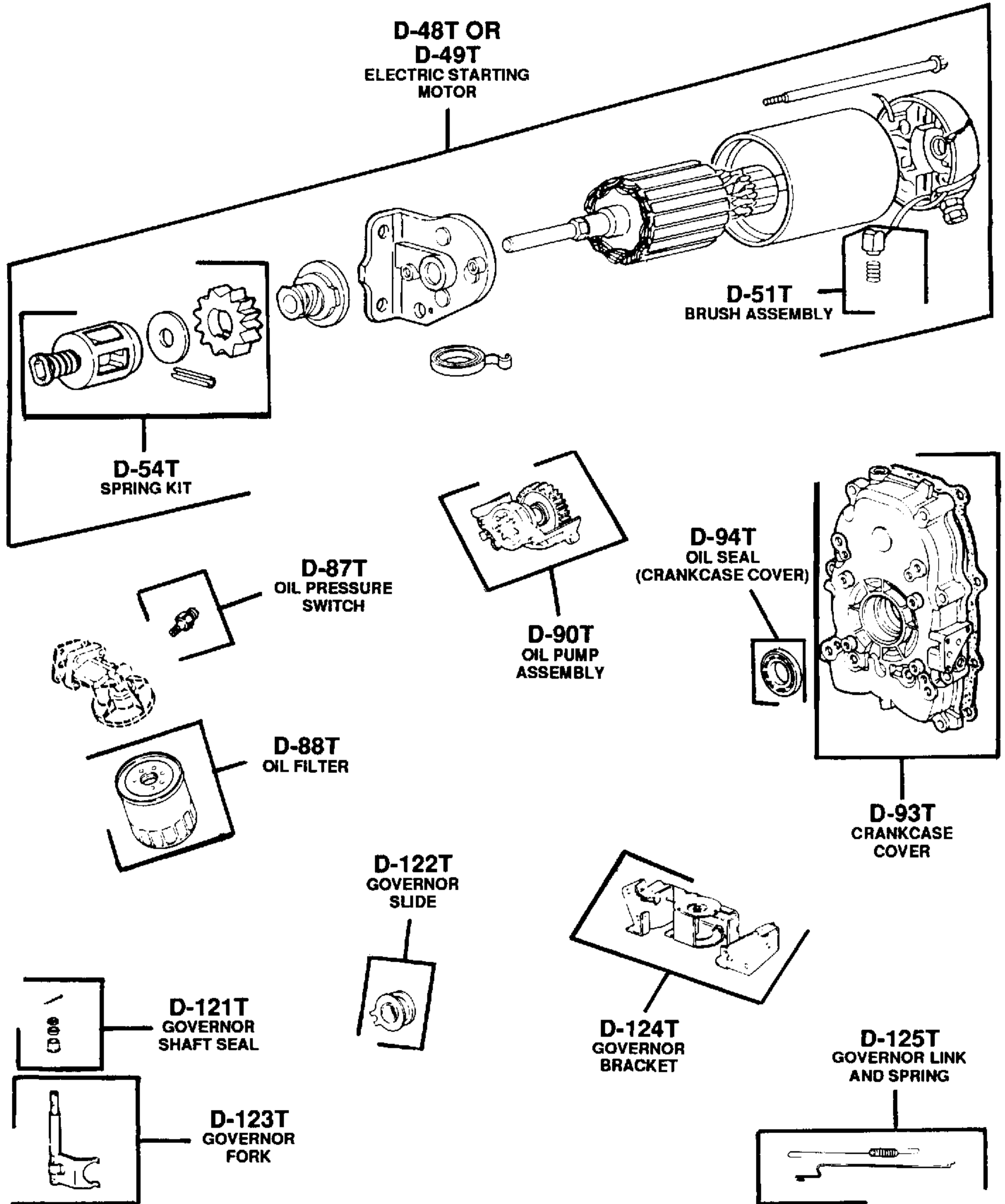


OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-20T	Engine: Overhaul (Major)	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Disconnect all controls and connections. 5. Remove engine (D-10T). 6. Disassemble engine. 7. Remove/install or replace pistons and rings, piston pins, all engine bearings and seals, complete valve train and valve seats. 8. Reassemble engine. 9. Torque cylinder heads. 10. Make all necessary adjustments. 11. Reinstall engine. 12. Reconnect all controls and connections. 13. Reassemble tractor. 14. Adjust all controls. 	BS-272144-9 772-4232	6.5
D-25T	Engine: Overhaul (Minor)	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Disconnect all controls and connections. 5. Remove engine (D-10T). 6. Remove from engine: cylinder heads, pistons and rings with rods and valves. 7. Reface valves and valve seats. 8. Reassemble engine. 9. Reassemble tractor. 10. Adjust all controls. 	BS-272144-9 772-4232	5.5
D-28T	Camshaft: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove engine (D-10T). 2. Disassemble engine. 3. Remove/install or replace camshaft. 4. Adjust rocker arms (D-33T). 5. Reassemble engine. 6. Adjust all controls. 	BS-272144-9 772-4232	3.5

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-30T	Engine Oil Drain Tube Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove/install or replace engine oil drain tube. 4. Reassemble. 5. Refill engine oil. 	BS-272144-9 772-4232	0.3
D-31T	Oil Seal: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Disconnect all controls. 5. Remove engine (D-10T). 6. Disassemble engine. 7. Remove/install or replace seal. 8. Reassemble. 	BS-272144-9 772-4232	4.5
D-33T	Rocker Arm: Adjust (one side only)	<ol style="list-style-type: none"> 1. Raise hood. 2. Remove side panel (A-03). 3. Remove valve cover (D-37T). 4. Adjust rocker arms. 5. Reassemble. 	BS-272144-9 772-4232	0.4
D-35T	Valve Grind Complete: Remove/Install or Replace (one side only)	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove cylinder head (D-40T) and disassemble. 4. Clean carbon from head, valves and valve guides. <p style="text-align: center;">NOTE</p> <p style="text-align: center;">If valve guides (D-36T) require oversizing, add 0.6 hour to flat rate time for this operation (D-35T). Total flat rate time for complete valve grind and valve guide reaming will be 1.8 hours.</p> <ol style="list-style-type: none"> 5. Test valve springs, or remove/install or replace. 6. Reface valves and valve seats, or remove/install or replace. 7. Reassemble. 8. Adjust all controls. 	BS-272144-9 772-4232	1.2

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-35T.1	Valve Grind Complete: Remove/Install or Replace (second side)	1. Remove second cylinder head (D-40T). 2. Perform complete valve grind (D-35T) on second side. 3. Reassemble.	BS-272144-9 772-4232	1.0
D-36T	Valve Guide:	1. Remove valves. 2. Ream guides. 3. Continue complete valve grind (D-35T).	BS-272144-9 772-4232	0.6
D-37T	Valve Cover and/or Gasket: (one side only)	1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove/install or replace valve cover and/or gasket. 4. Reassemble.	BS-272144-9 772-4232	0.2
D-37T.1	Valve Cover and/or Gasket: (second side)	1. Remove/install or replace second valve cover and/or gasket. 2. Reassemble. Flat rate time is valid only when done in conjunction with the first valve cover and/or gasket.	BS-272144-9 772-4232	0.1
D-38T	Rocker Arm: Remove/Install or Replace (one side only)	1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove valve cover (D-37T). 4. Remove/install or replace rocker arm. 5. Adjust rocker arm (D-33T). 6. Reassemble.	BS-272144-9 772-4232	0.3
D-38T.1	Rocker Arm: Remove/Install or Replace (second side)	1. Remove valve cover (D-37T). 2. Remove/install or replace rocker arm. 3. Adjust rocker arm (D-33T). 4. Reassemble. Flat rate time is valid only when done in conjunction with the first valve cover and/or gasket.	BS-272144-9 772-4232	0.1

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-40T	Cylinder Head Assembly and/or Gasket: Remove/Install or Replace (one side only)	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove valve cover (D-37T). 4. Remove/install or replace cylinder head assembly and/or gasket. 5. Reassemble. 	BS-272144-9 772-4232	1.2
D-40T.1	Cylinder Head Assembly and/or Gasket: Remove/Install or Replace (second side)	<ol style="list-style-type: none"> 1. Remove valve cover (D-37T). 2. Remove/install or replace second cylinder head assembly and/or gasket. 3. Reassemble. <p>Flat rate time is valid only when done in conjunction with the first cylinder head assembly and/or gasket.</p>	BS-272144-9 772-4232	1.0
D-43T	Cylinder Head Assembly: Replace (one side only)	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove valve cover (D-37T). 4. Remove rocker arm (D-38T). 5. Remove valve spring keepers, valve spring retainers, valve springs, valve spring caps and intake and exhaust valves. 6. Replace cylinder head. 7. Adjust rocker arm (D-33T). 8. Reassemble. 	BS-272144-9 772-4232	1.2
D-43T.1	Cylinder Head Assembly: Replace (second side)	<ol style="list-style-type: none"> 1. Remove valve cover (D-37T). 2. Remove rocker arm (D-38T). 3. Remove valve spring keepers, valve spring retainers, valve springs, valve spring caps and intake and exhaust valves. 4. Replace cylinder head. 5. Adjust rocker arm (D-33T). 6. Reassemble. <p>Flat rate time is valid only when done in conjunction with the first cylinder head assembly.</p>	BS-272144-9 772-4232	1.0

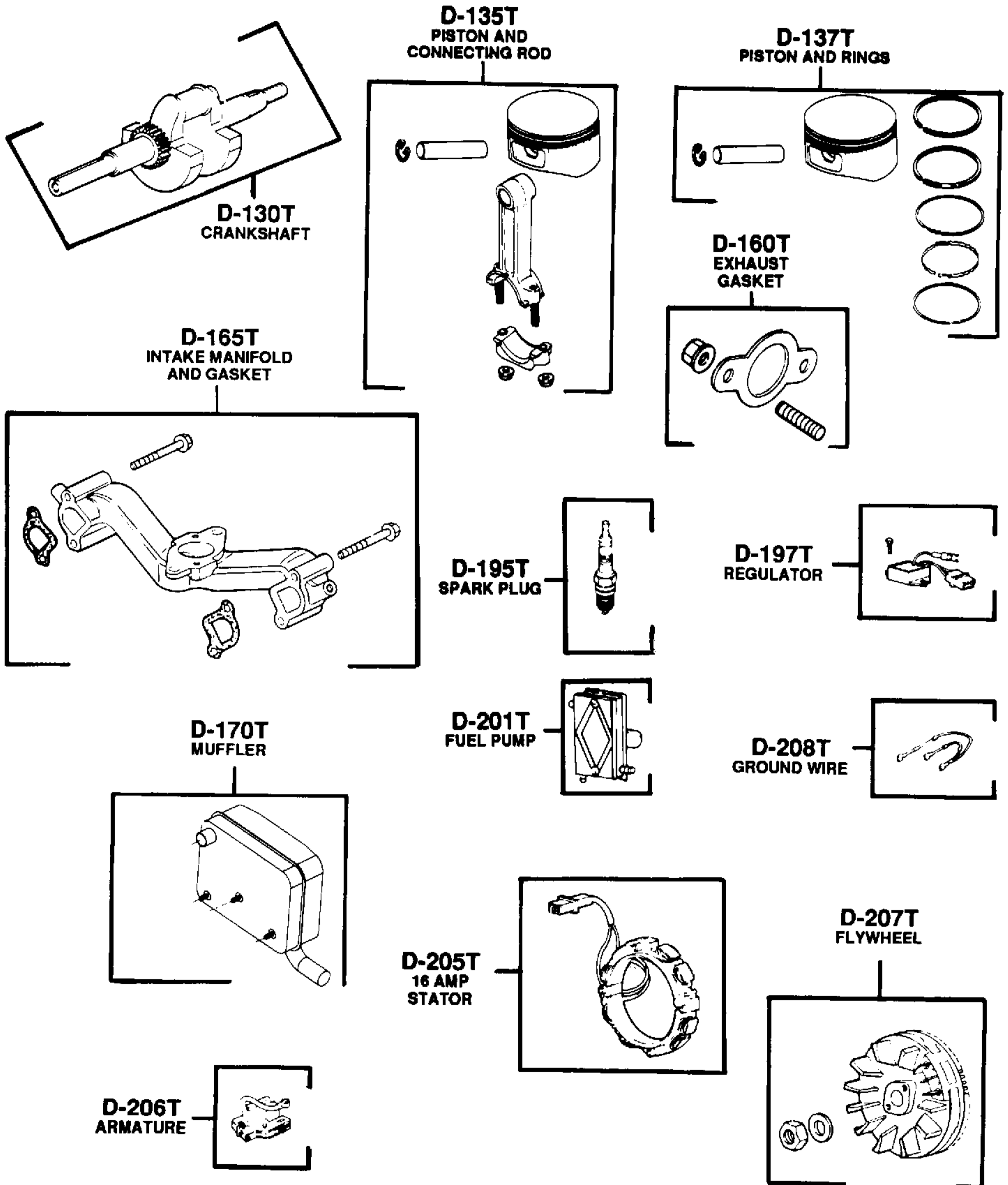


OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-44T	Valve Tappet (2): Remove/Install or Replace (one side only)	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove valve cover (D-37T). 3. Remove rocker arms and push rods. 4. Remove/install or replace valve tappets. 5. Reassemble. 	BS-272144-9 772-4232	0.5
D-44T.1	Valve Tappet (2): Remove/Install or Replace (second side)	<ol style="list-style-type: none"> 1. Remove valve cover (D-37T). 2. Remove rocker arms and push rods. 3. Remove/install or replace valve tappets. 4. Reassemble. <p>Flat rate time is valid only when done in conjunction with the first valve tappet and/or gasket.</p>	BS-272144-9 772-4232	0.5
D-48T	Electric Starting Motor: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Disconnect battery (F-02). 4. Remove/install or replace starting motor. 5. Reassemble. 	BS-272144-9 772-4232	0.6
D-49T	Electric Starting Motor (Starter Assembly): Overhaul	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Disconnect battery (F-02). 4. Remove starting motor (D-48T). 5. Disassemble starting motor. 6. Remove/install or replace worn or broken parts. 7. Reassemble. 	BS-272144-9 772-4232	1.2
D-51T	Brush Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Disconnect battery (F-02). 4. Remove starting motor (D-48T) and disassemble. 5. Remove/install or replace brush assembly. 6. Reassemble. 	BS-272144-9 772-4232	1.2

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-54T	Spring Kit: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Disconnect battery (F-02). 4. Remove starting motor (D-48T) and disassemble. 5. Remove/install or replace spring kit. 6. Reassemble. 	BS-272144-9 772-4232	1.2
D-87T	Oil Pressure Switch: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panel (A-03T). 3. Remove/install or replace oil pressure switch. 4. Reassemble. 	BS-272144-9 772-4232	0.3
D-88T	Oil Filter: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove/install or replace oil filter. 4. Reassemble. 	BS-272144-9 772-4232	0.1
D-90T	Oil Pump Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove engine (D-10T). 2. Remove PTO clutch (M-01). 3. Remove muffler (D-170T). 4. Remove crankcase cover (D-93T). 5. Remove/install or replace oil pump assembly. 6. Reassemble. 	BS-272144-9 772-4232	2.3
D-93T	Crankcase Cover: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove engine (D-10T). 4. Remove/install or replace crankcase cover. 5. Reassemble. 	BS-272144-9 772-4232	2.0
D-94T	Oil Seal: (crankcase cover) Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove engine (D-10T). 4. Remove crankcase cover (D-93T). 5. Remove/install or replace oil seal. 6. Reassemble. 	BS-272144-9 772-4232	2.0

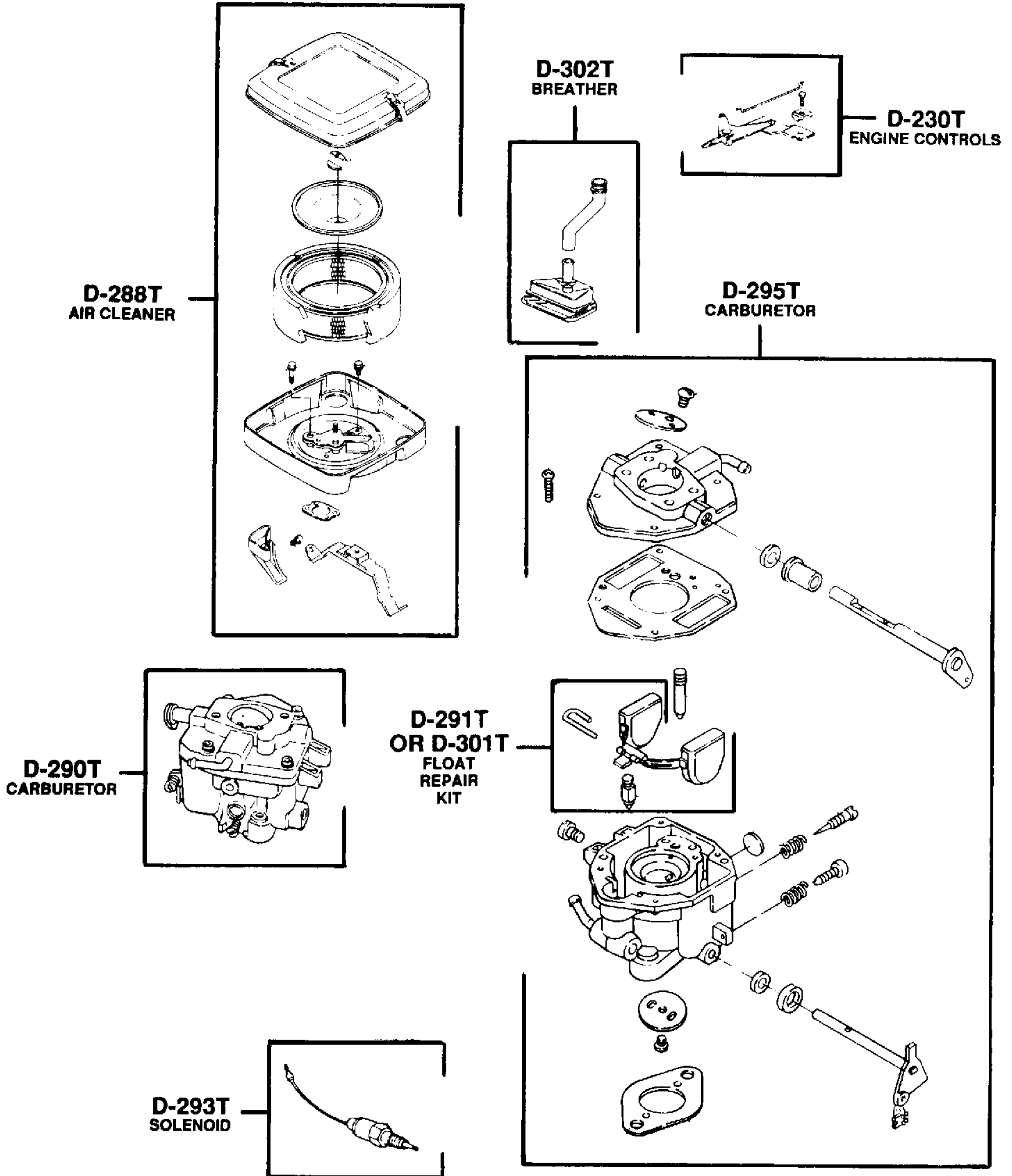
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-121T	Governor Shaft Seal: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove grille and housing (A-14). 3. Remove side panels (A-03). 4. Remove engine (D-10T). 5. Disassemble engine. 6. Remove/install or replace governor shaft seal. 7. Reassemble. 	BS-272144-9 772-4232	2.2
D-122T	Governor Slide: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove grille and housing (A-14). 3. Remove side panels (A-03). 4. Remove engine (D-10T). 5. Disassemble engine. 6. Remove/install or replace governor slide. 7. Reassemble. 	BS-272144-9 772-4232	2.2
D-123T	Governor Fork: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove grille (A-14). 3. Remove side panels (A-03). 4. Remove engine (D-10T). 5. Disassemble engine. 6. Remove/install or replace governor fork. 7. Reassemble. 	BS-272144-9 772-4232	2.2
D-124T	Governor Bracket: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Disconnect throttle control. 4. Remove/install or replace governor bracket. 5. Reassemble. 	BS-272144-9 772-4232	0.8
D-125T	Governor Link and Spring: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Disconnect throttle controls. 4. Remove/install or replace governor link and spring. 5. Reassemble. 	BS-272144-9 772-4232	0.8

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-130T	Crankshaft Complete: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove engine (D-10T). 2. Disassemble engine. 3. Remove/install or replace crankshaft and connecting rod bearings. 4. Reassemble. 5. Adjust all controls. 	BS-272144-9 772-4232	4.5
D-135T	Piston and Connecting Rod: Remove/Install or Replace (both sides)	<ol style="list-style-type: none"> 1. Remove engine (D-10T). 2. Disassemble engine. 3. Remove/install or replace piston with rings and/or connecting rod. 4. Reassemble. 5. Adjust all controls. 	BS-272144-9 772-4232	4.5
D-137T	Piston and Rings: Remove/Install or Replace (both sides)	<ol style="list-style-type: none"> 1. Remove engine (D-10T). 2. Disassemble engine. 3. Remove cylinder head (D-40T) and resurface. 4. Remove/install or replace piston and rings. 5. Reassemble. 6. Adjust all controls. 	BS-272144-9 772-4232	4.5
D-160T	Exhaust Gaskets: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Remove muffler (D-170T). 4. Remove/install or replace exhaust gaskets. 5. Reassemble. 	BS-272144-9 772-4232	0.8
D-165T	Intake Manifold and/or Gasket: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove side panels (A-03). 3. Remove grille and housing (A-14). 4. Shut off fuel and disconnect necessary linkage and lines. 5. Remove air cleaner (D-288T) and carburetor (D-290T). 6. Remove/install or replace intake manifold and/or gasket. 7. Reassemble. 8. Adjust carburetor (D-300T). 	BS-272144-9 772-4232	3.0



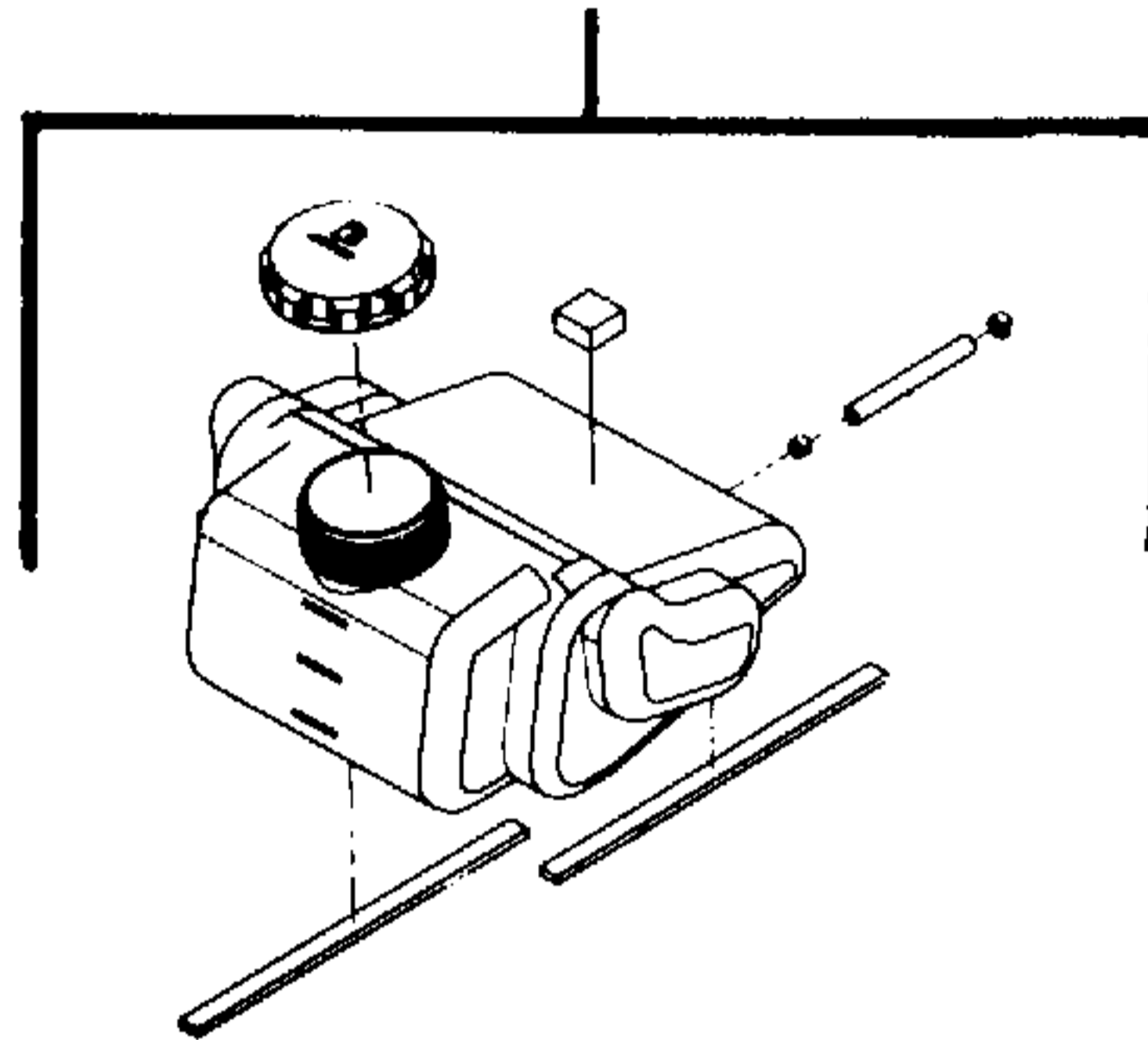
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-170T	Muffler: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove hood (A-01). 2. Remove baffles. 3. Remove/install or replace muffler. 4. Remove side panels (A-03). 5. Reassemble. 	BS-272144-9 772-4232	0.8
D-195T	Spark Plug: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Adjust plug gap. 3. Remove/install or replace spark plug. 4. Reassemble. 	BS-272144-9 772-4232	0.2
D-197T	Regulator: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove/install or replace regulator and test voltage. 4. Reassemble. 	BS-272144-9 772-4232	0.5
D-201T	Fuel Pump: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove left-hand side panel (A-03). 3. Remove vacuum and fuel lines. 4. Remove/install or replace fuel pump. 5. Reassemble. 	BS-272144-9 772-4232	0.5
D-205T	16 Amp Stator and Connector: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove engine (D-10T) and blower housing cover. 2. Remove flywheel (D-207T). 3. Remove/install or replace stator kit. 4. Reassemble and test. 5. Adjust all controls. 	BS-272144-9 772-4232	2.5
D-206T	Armature: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Remove engine blower housing. 4. Remove/install or replace armature. 5. Reassemble. 	BS-272144-9 772-4232	2.3

OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-207T	Flywheel Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove engine (D-10T) and blower housing cover. 2. Remove/install or replace flywheel assembly. 3. Check air gap. 4. Reassemble. 5. Adjust all controls. 	BS-272144-9 772-4232	2.3
D-208T	Ground Wire: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Remove engine blower housing. 4. Remove/install or replace ground wire. 5. Reassemble. 	BS-272144-9 772-4232	2.0
D-230T	Engine Controls: Adjust	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Adjust engine controls. 3. Reassemble. 	BS-272144-9 772-4232	0.3
D-288T	Air Cleaner: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove/install or replace air cleaner or filter. 	BS-272144-9 772-4232	0.4
D-290T	Carburetor: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove air cleaner (D-288T). 4. Remove/install or replace carburetor. 5. Reassemble. 	BS-272144-9 772-4232	1.5
D-291T	Float Repair Kit: Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Remove air cleaner (D-288T). 4. Remove top half of carburetor. (It is not necessary to remove carburetor.) 5. Remove/install or replace carburetor float kit. 6. Adjust float (D-301T). 7. Reassemble. 8. Adjust carburetor (D-300T). 	BS-272144-9 772-4232	1.5



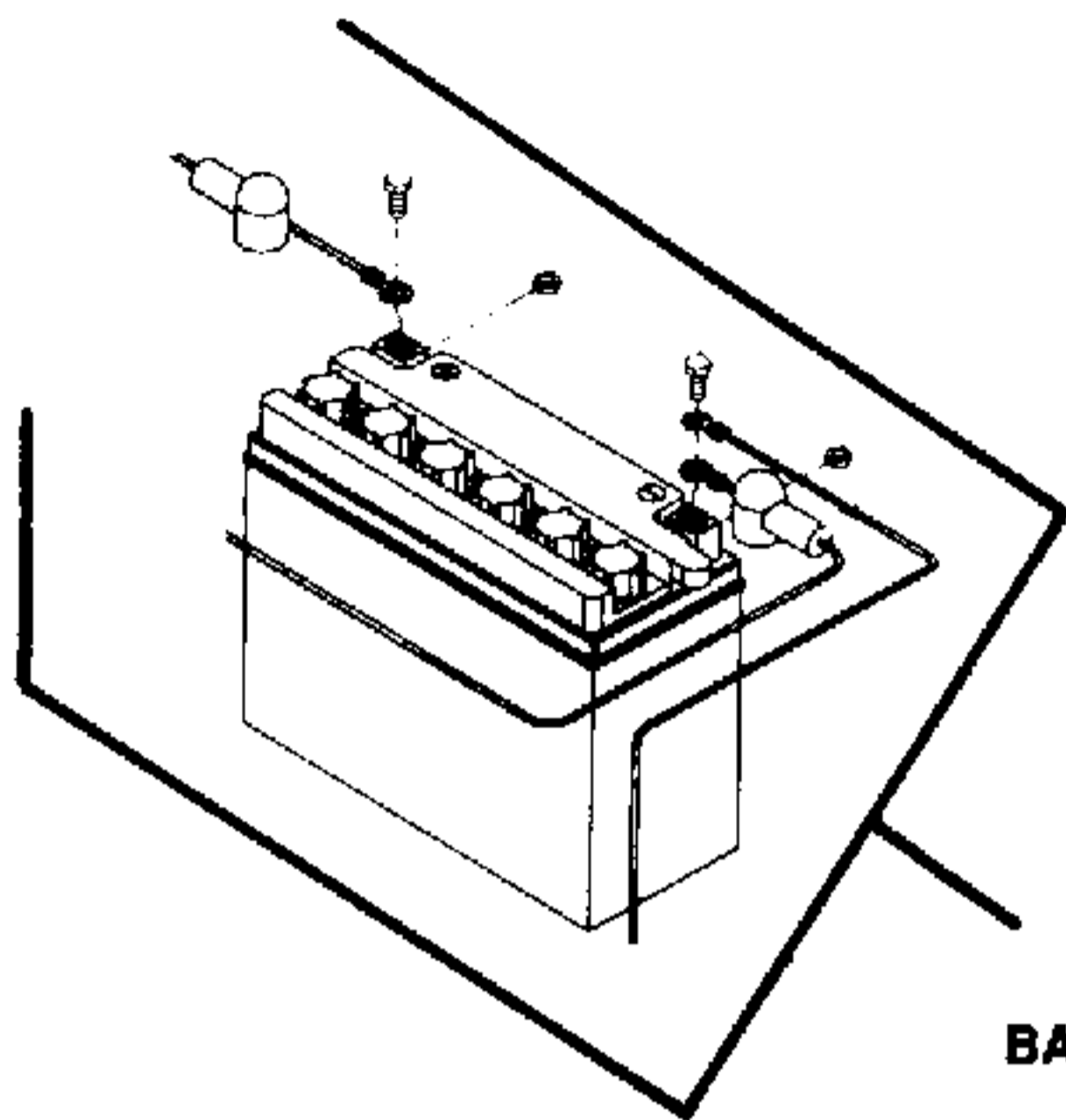
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
D-293T	Solenoid: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panel (A-03). 3. Remove air cleaner base. 4. Remove/install or replace solenoid. 5. Reassemble. 6. Adjust carburetor (D-300T). 	BS-272144-9 772-4232	0.6
D-295T	Carburetor: Overhaul	<ol style="list-style-type: none"> 1. Remove carburetor (D-290T). 2. Disassemble carburetor and remove/install or replace all worn or damaged parts. 3. Adjust float (D-301T). 4. Reassemble. 5. Adjust carburetor (D-300T). 	BS-272144-9 772-4232	1.5
D-300T	Carburetor: Adjust	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove upper bulkhead. 3. Adjust carburetor. 4. Reassemble. 	BS-272144-9 772-4232	0.5
D-301T	Float: Adjust	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove side panels (A-03). 3. Remove air cleaner (D-288T). 4. Remove top half of carburetor. 5. Adjust float. 6. Reassemble. 7. Adjust carburetor (D-300T). 	BS-272144-9 772-4232	1.2
D-302T	Breather: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood (A-01). 2. Remove air cleaner (D-288T). 3. Remove/install or replace breather. 4. Reassemble. 	BS-272144-9 772-4232	1.0

**E-01
FUEL TANK
ASSEMBLY**

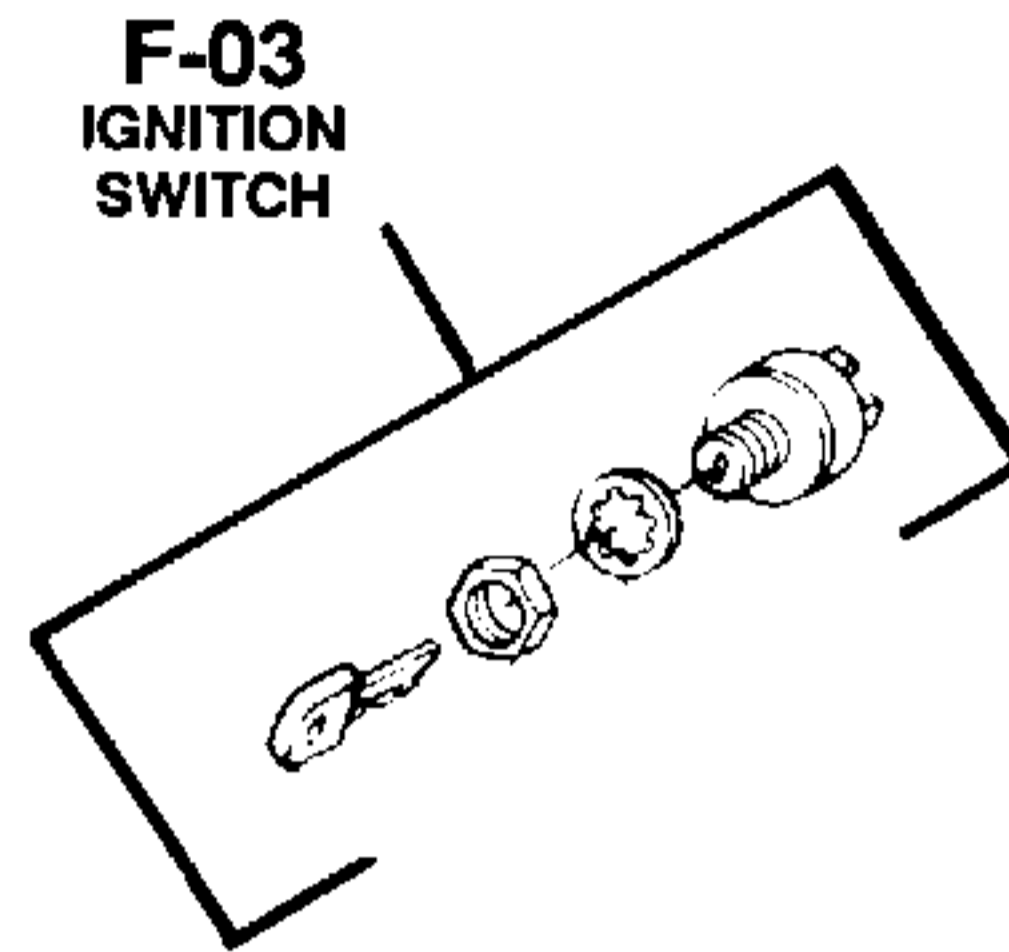


OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
E-01	Fuel Tank Assembly: Remove/Install or Replace	1. Remove fender (A-05). 2. Remove electrical and fuel lines. 3. Remove/install or replace fuel tank. 4. Reassemble.	772-4232	0.5

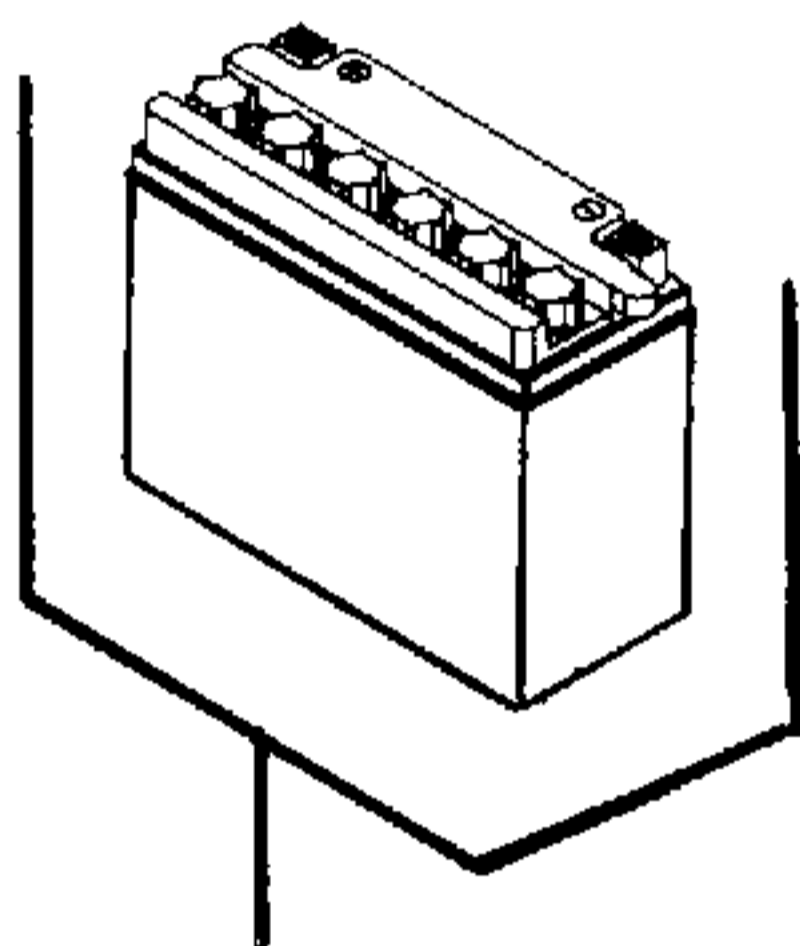
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
F-00	Electrical System: Check	<ol style="list-style-type: none"> 1. Hook up voltmeter. 2. Check complete electrical system. 	772-4232	0.7
F-01	Battery Cable: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove/install or replace battery cable. 3. Reassemble. 	772-4232	0.2
F-02	Battery: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Disconnect battery cables (F-01). 3. Remove/install or replace battery. 4. Reassemble. 	772-4232	0.2
F-03	Ignition Switch: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Disconnect battery. 3. Remove/install or replace ignition switch. 4. Reassemble. 	772-4232	0.5
F-04	Head Lamp Bulbs (two): Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise hood. 2. Remove/install or replace head lamp bulbs. 	772-4232	0.1
F-05	Main Wire Harness: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove battery (F-02). 3. Remove/install or replace main wire harness. 4. Reassemble. 5. Check electrical system (F-00). 	772-4232	2.0
F-06	Fuse Holder: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Remove/install or replace fuse holder. 3. Reassemble. 	772-4232	0.2
F-07	Relay: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Remove/install or replace relay. 3. Reassemble. 	772-4232	0.2



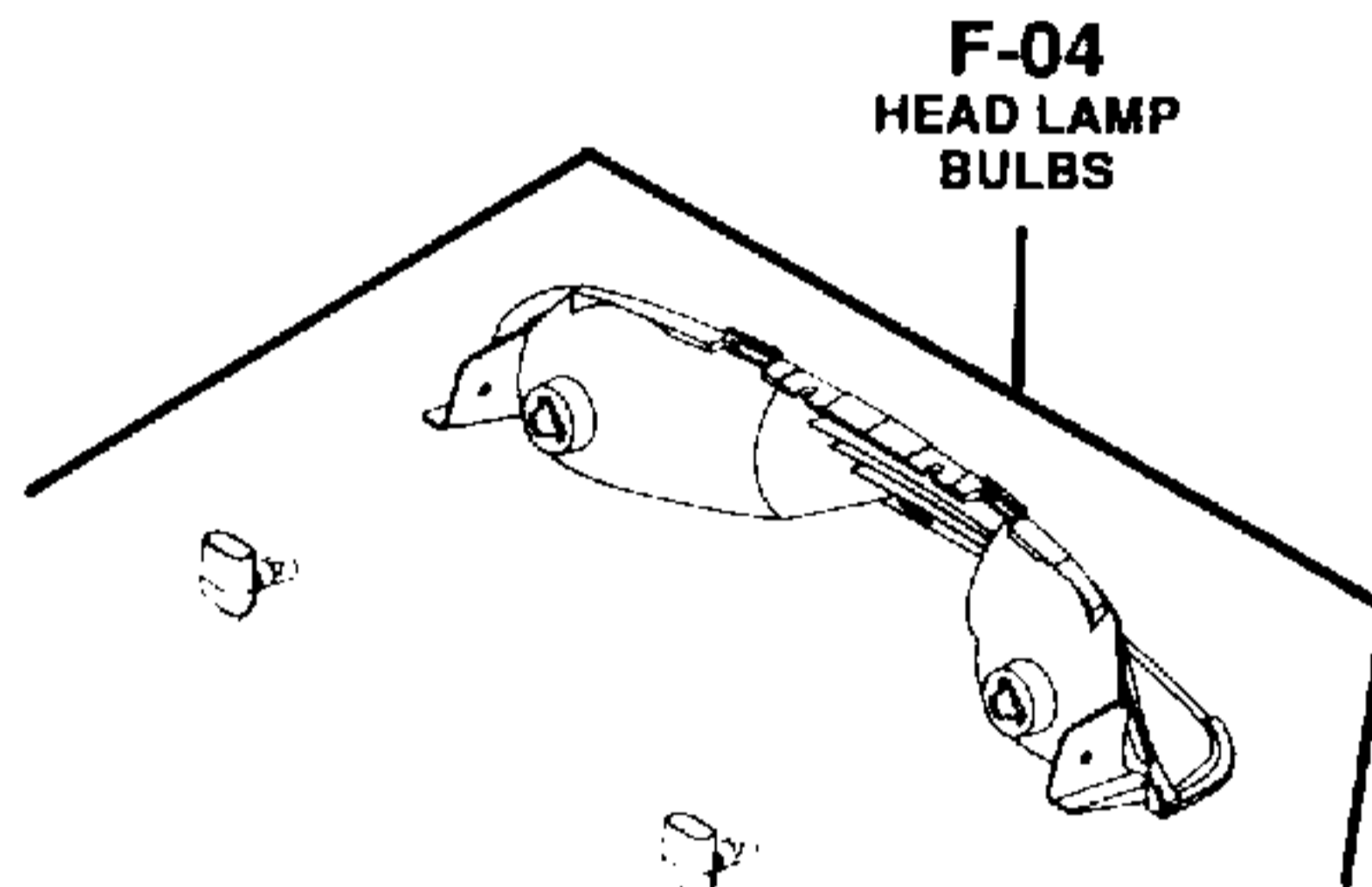
F-01
BATTERY CABLE



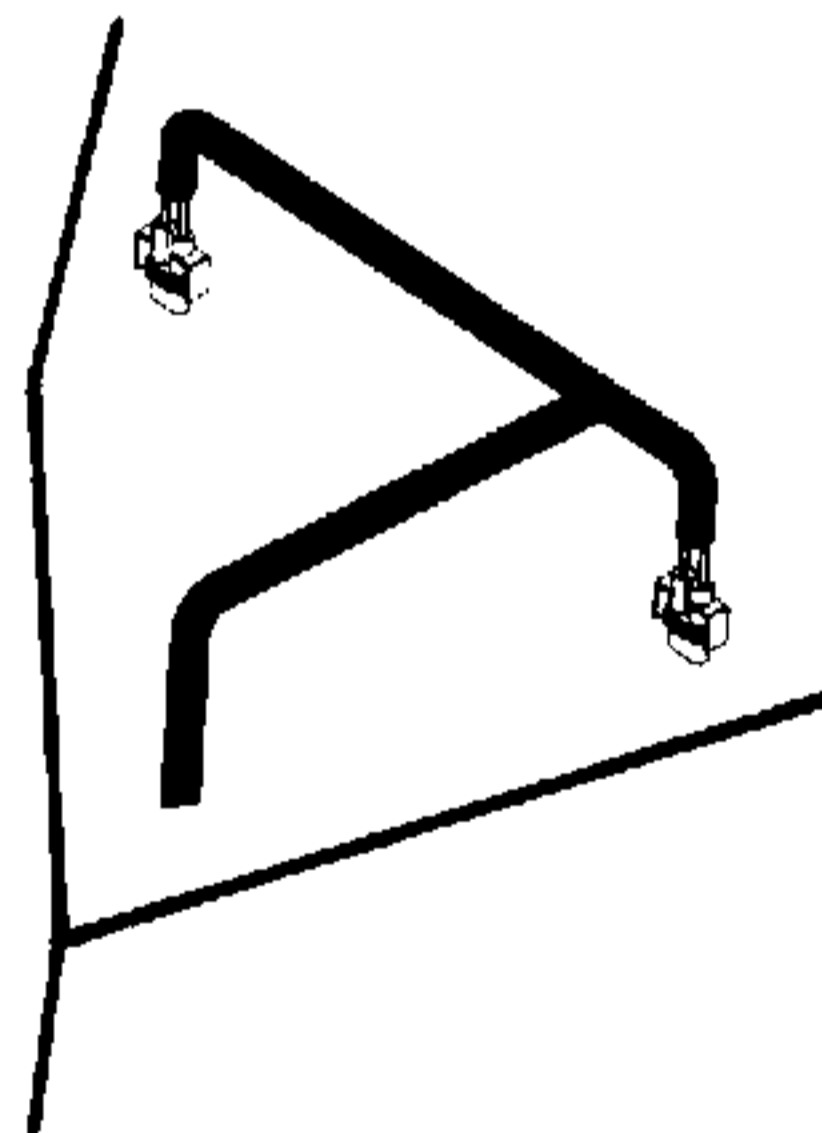
F-03
IGNITION
SWITCH



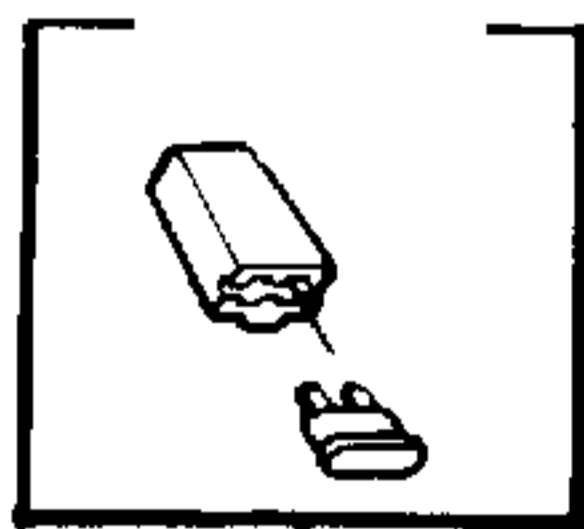
F-02
BATTERY



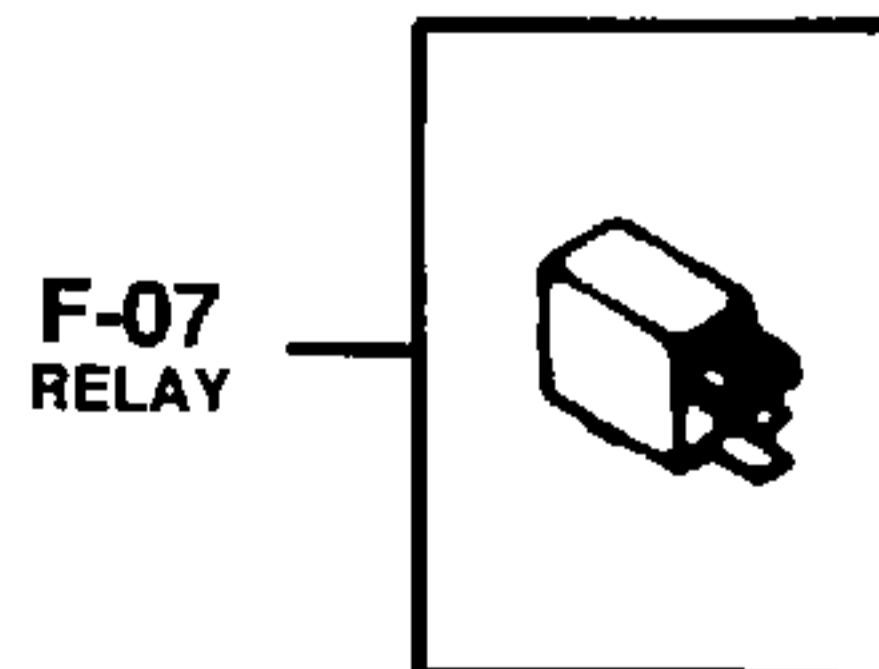
F-04
HEAD LAMP
BULBS



F-05
MAIN WIRE
HARNESS

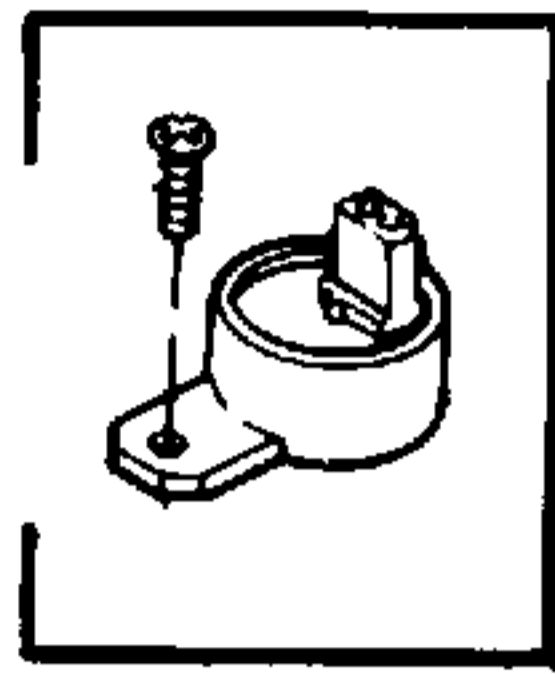


F-06
FUSE HOLDER

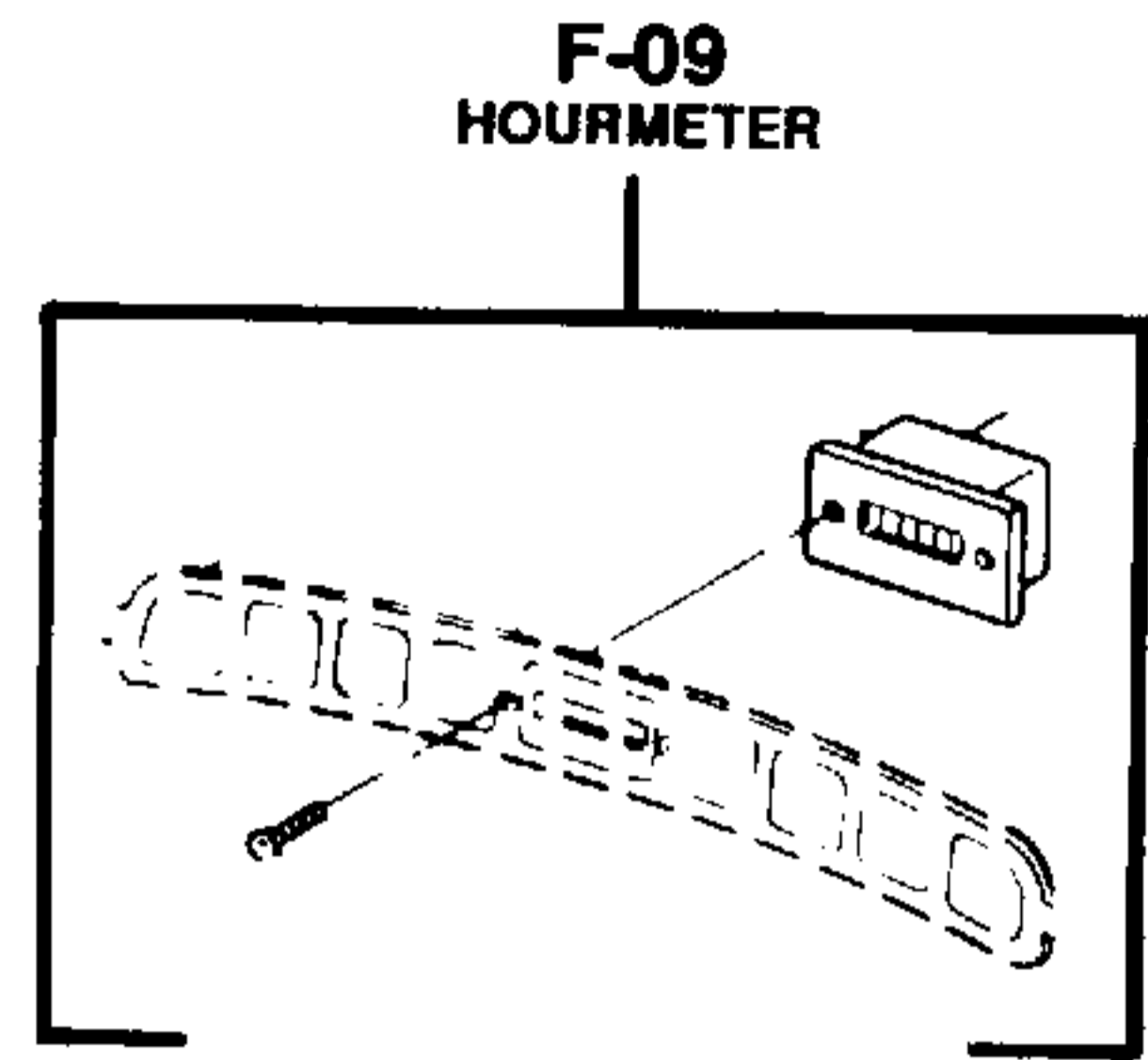


F-07
RELAY

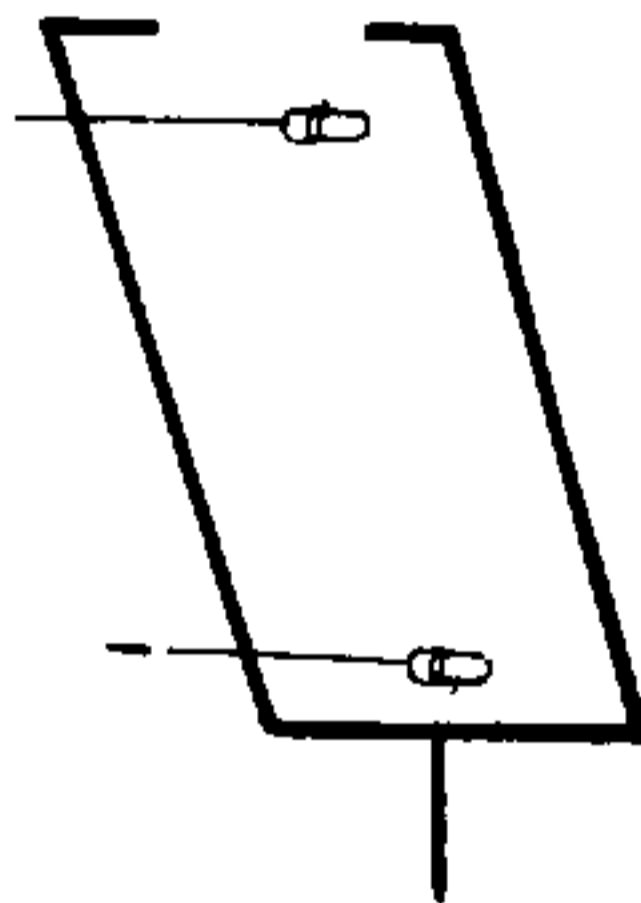
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
F-08	Voltage Indicator: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Remove/install or replace voltage indicator. 3. Reassemble. 	772-4232	0.2
F-09	Hourmeter: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove dash label (A-10). 2. Remove/install or replace hourmeter. 3. Reassemble. 	772-4232	0.2
F-10	Indicator Bulb: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove bulb holder from dash panel. 2. Remove/install or replace indicator bulb. 3. Reassemble. 	772-4232	0.1
F-11	Seat Switches: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove seat. 2. Remove/install or replace seat switch. 3. Reassemble. 	772-4232	0.2
F-12	Reverse Switch: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Disconnect battery. 3. Remove/install or replace reverse switch. 4. Reassemble. 	772-4232	0.3
F-13	Interlock Switch: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Remove/install or replace interlock switch. 3. Reassemble and test. 	772-4232	0.3
F-14	PTO Switch: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace PTO switch. 2. Reassemble. 	772-4232	0.4



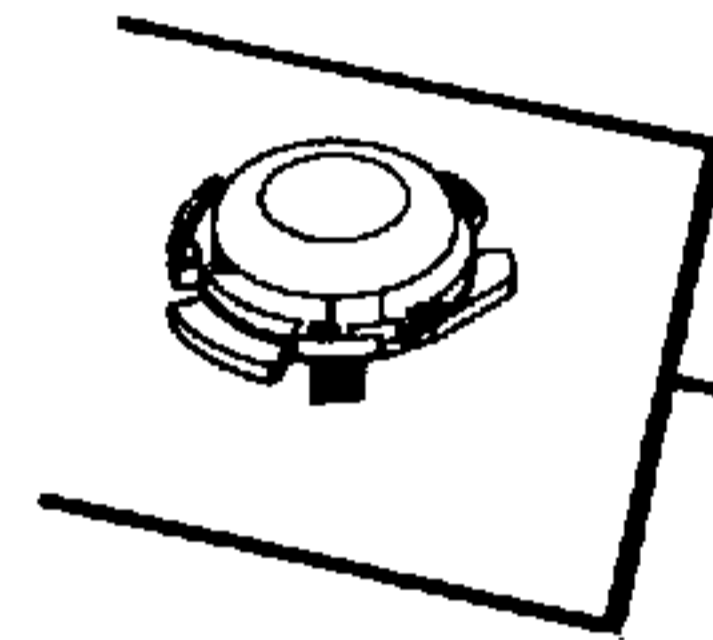
F-08
VOLTAGE INDICATOR



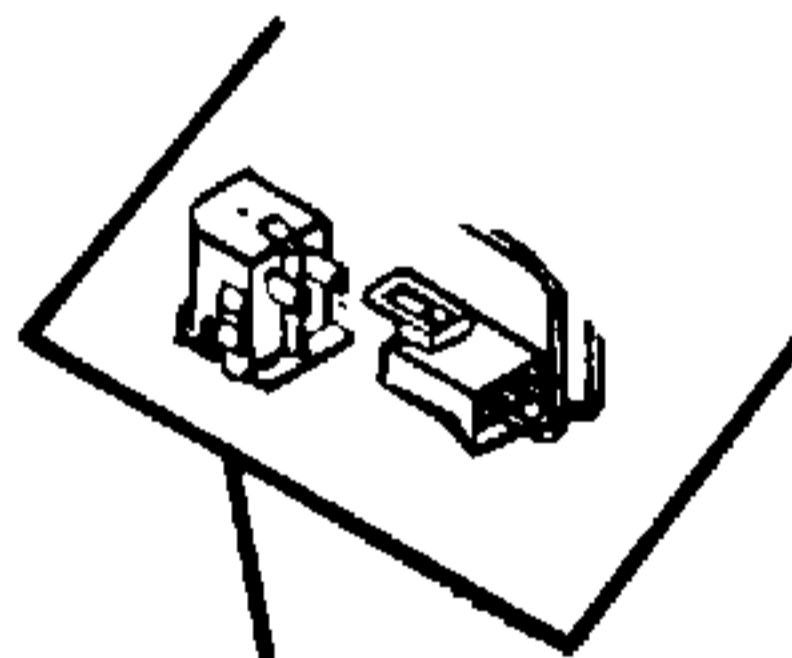
F-09
HOURMETER



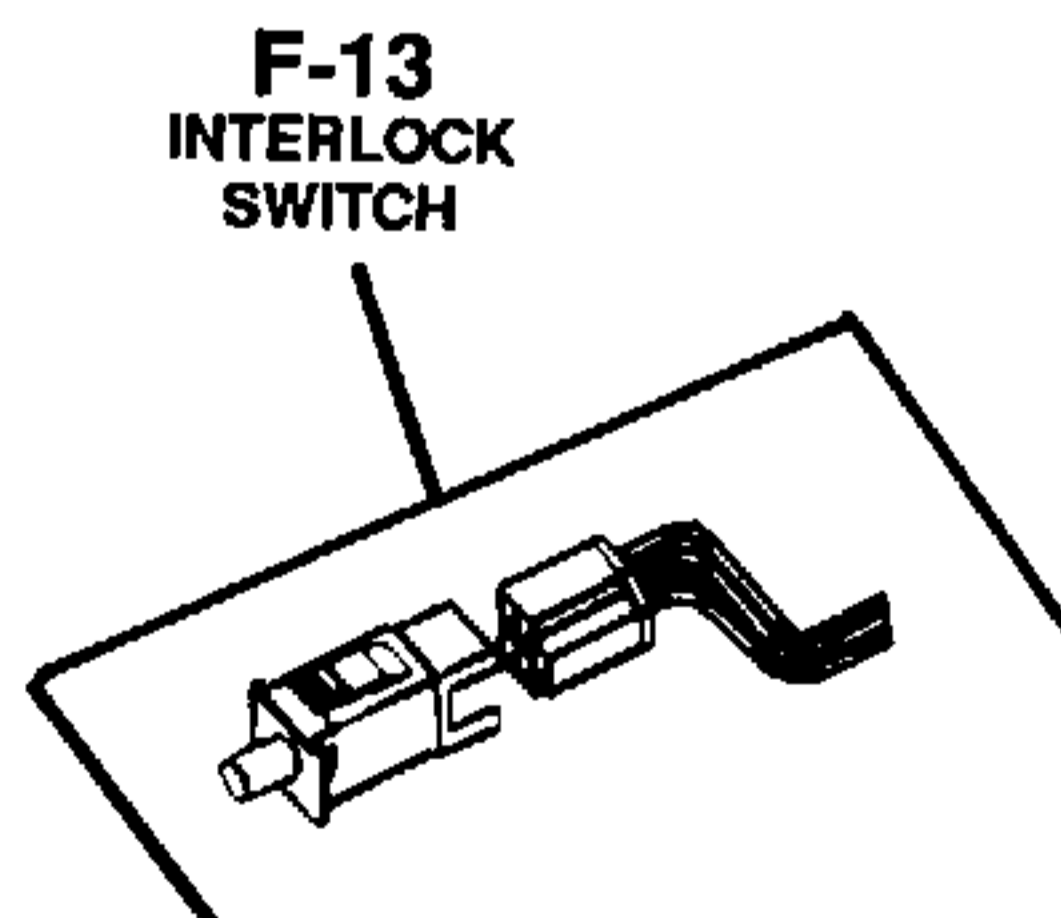
F-10
INDICATOR BULB



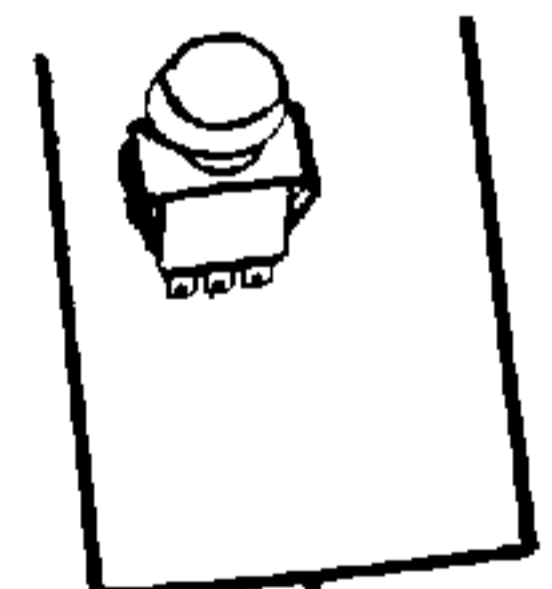
F-11
SEAT SWITCHES



F-12
REVERSE SWITCH

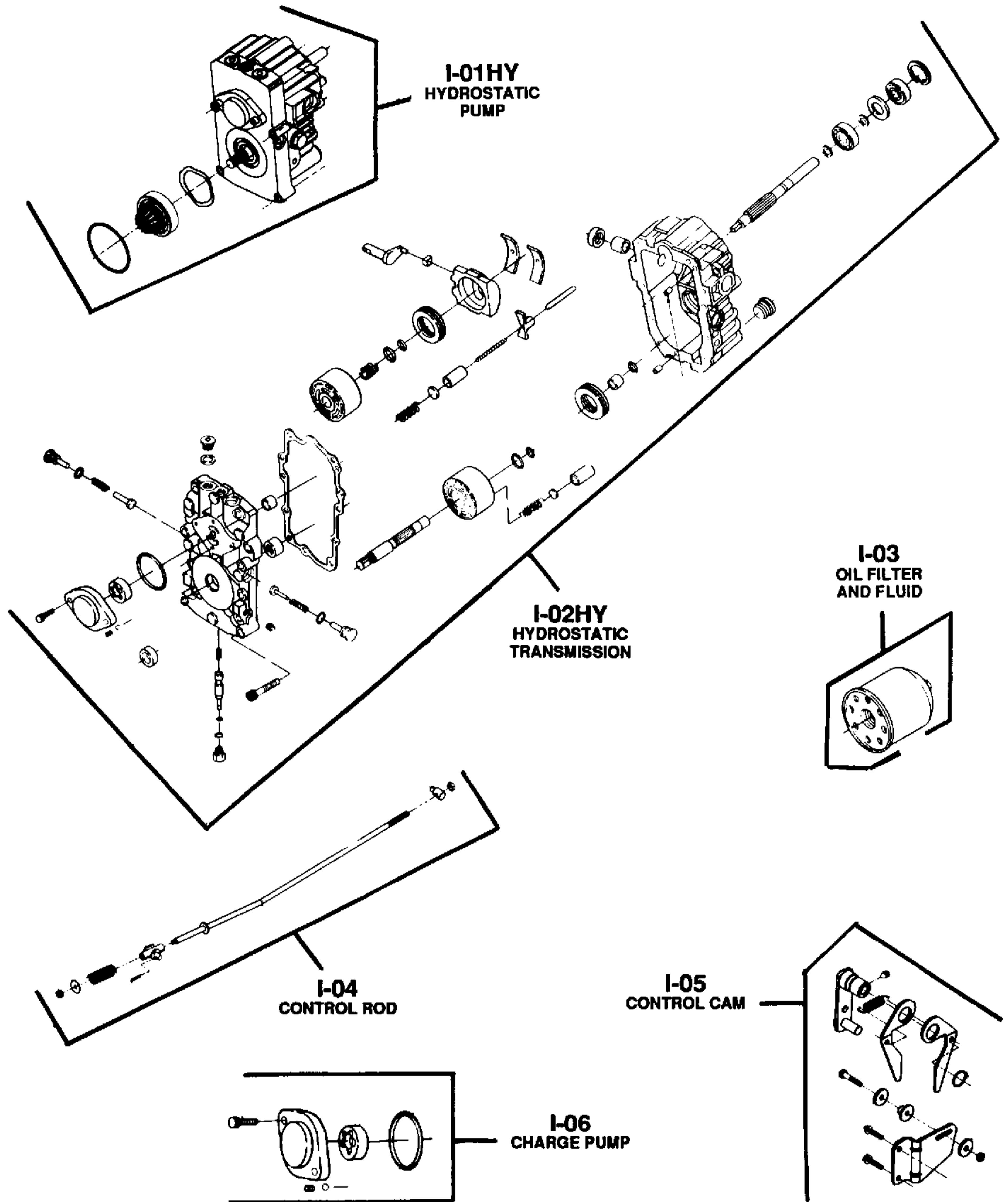


F-13
INTERLOCK
SWITCH

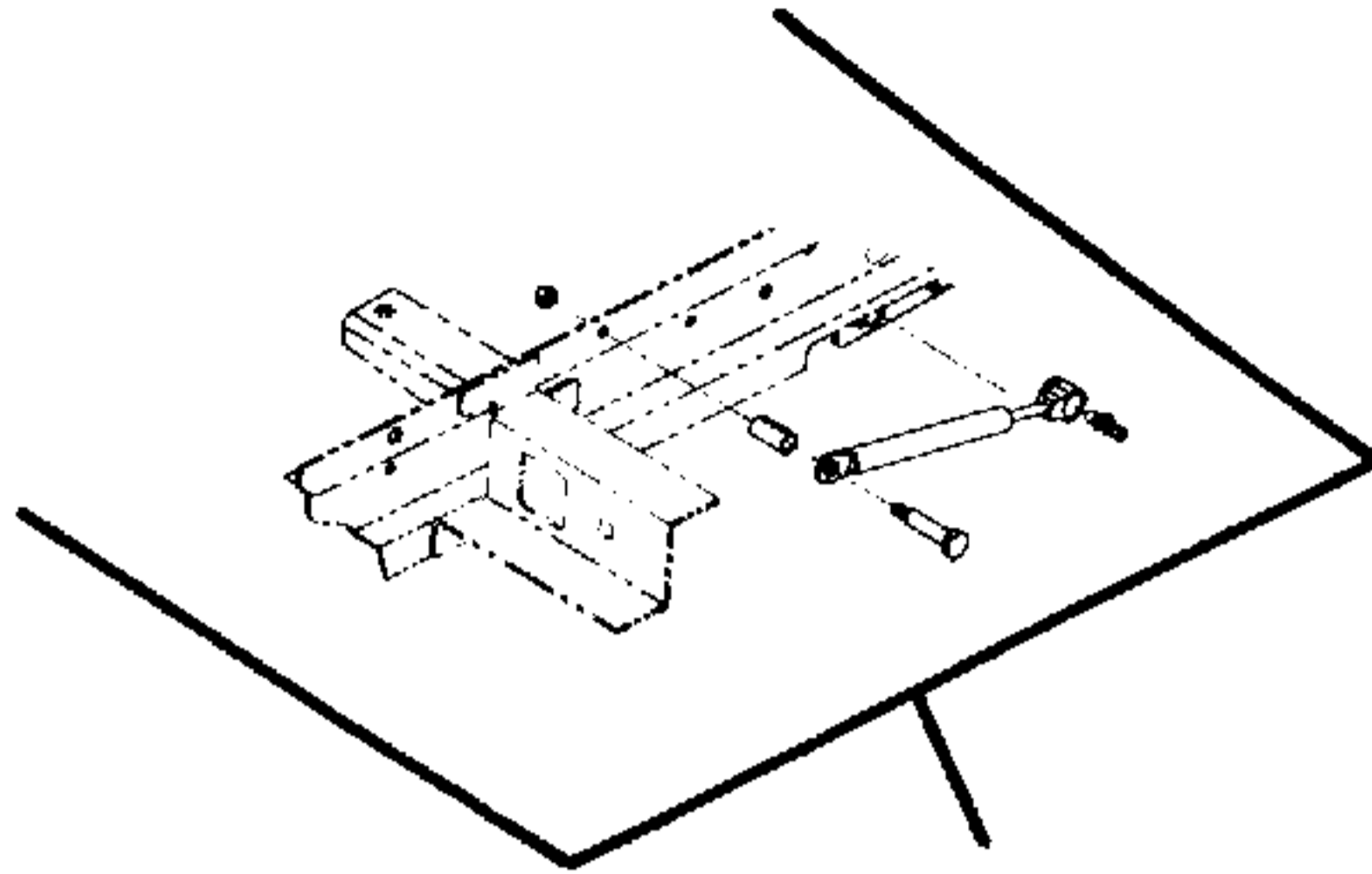


F-14
PTO SWITCH

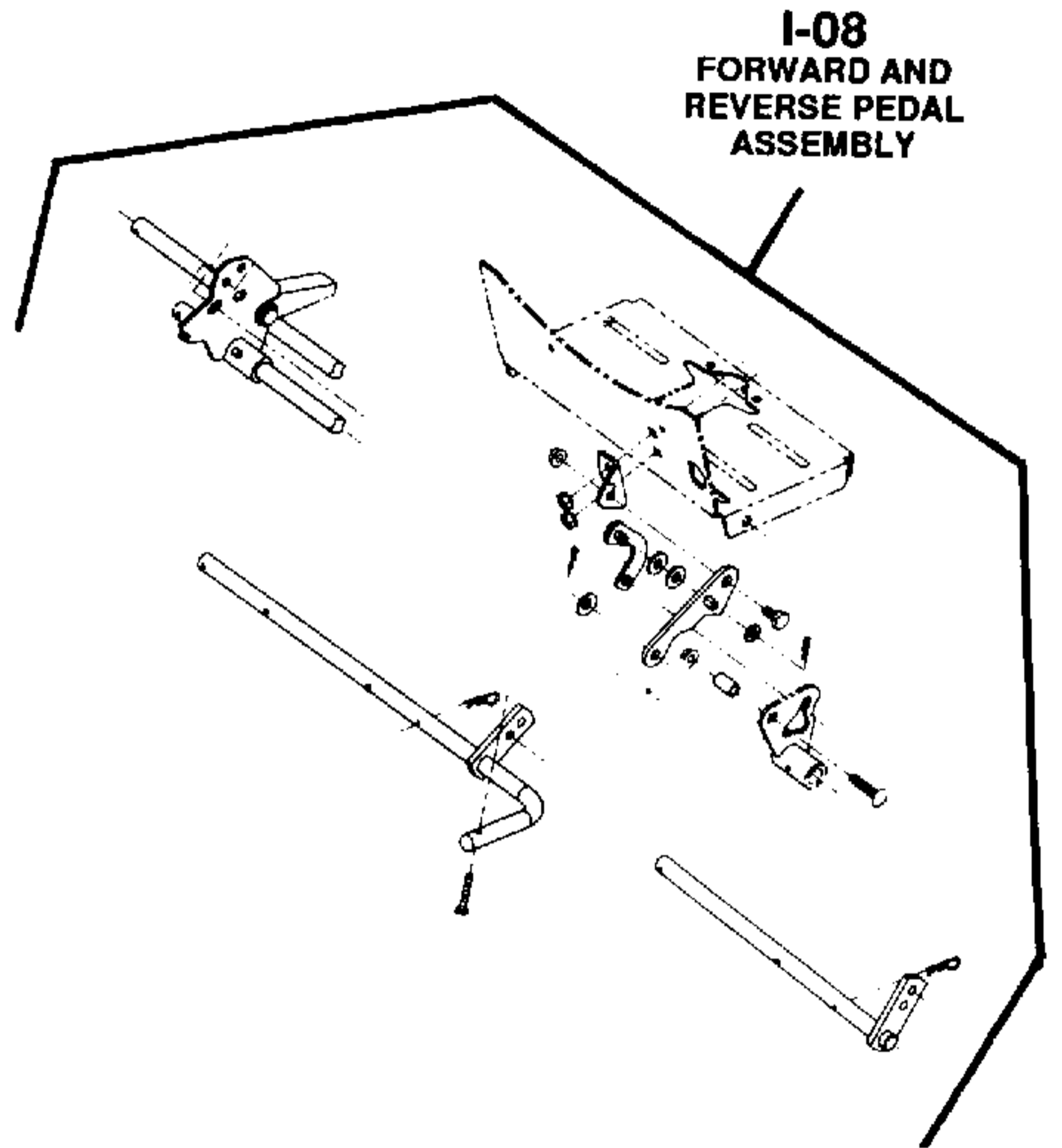
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
I-01HY	Hydrostatic Pump: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove fenders (A-05). 2. Remove drive shaft drive coupling. 3. Disconnect all linkage and fluid lines. 4. Remove/install or replace hydrostatic pump. 5. Reassemble. 	772-4232	1.5
I-02HY	Hydrostatic Transmission: Overhaul	<ol style="list-style-type: none"> 1. Remove hydrostatic pump (I-01HY) and disassemble. 2. Remove/install or replace worn or damaged parts. 3. Reassemble. 	772-4232	3.0
I-03HY	Oil Filter and Fluid: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove oil filter. 2. Drain fluid. 3. Remove/install or replace oil filter and hydraulic fluid. 4. Reassemble. 	772-4232	0.4
I-04	Control Rod: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace control rod. 2. Reassemble and adjust. 	772-4232	0.4
I-05	Control Cam: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace control cam. 2. Reassemble and adjust. 	772-4232	0.4
I-06	Charge Pump: Overhaul	<ol style="list-style-type: none"> 1. Remove fenders (A-05). 2. Remove charge pump housing and overhaul. 3. Reassemble and test. 	772-4232	1.2
I-07HY	Damper Cylinder: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace damper cylinder. 2. Reassemble. 	772-4232	0.4



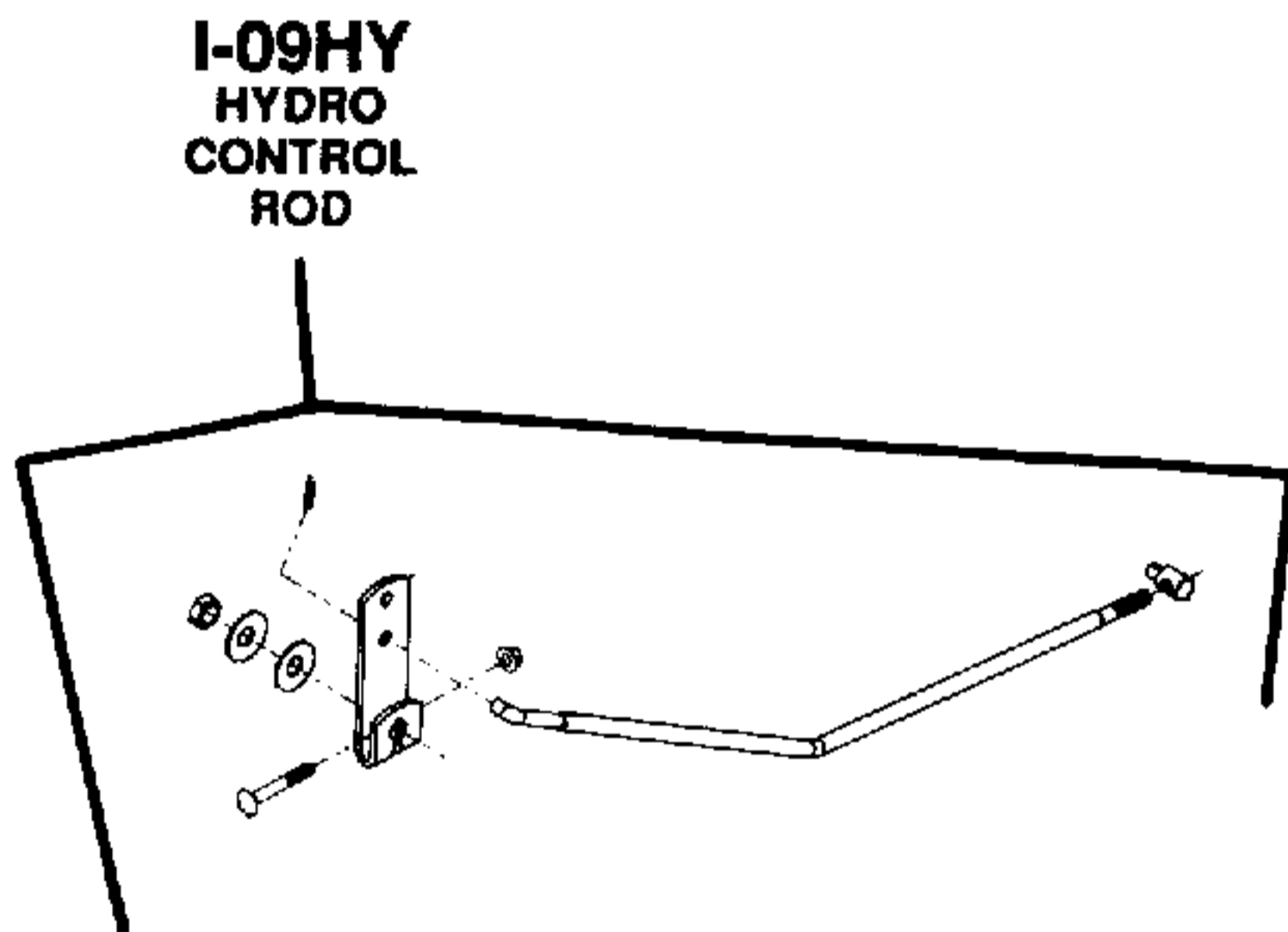
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
I-08	Forward and Reverse Pedal Assembly: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace any part within assembly. 2. Reassemble and adjust. 	772-4232	0.7
I-09HY	Hydro Control Rod: Remove/Install or Replace	Remove/install or replace hydro control rod.	772-4232	0.4
I-10HY	Cruise Control Lever: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove fenders (A-05). 2. Remove/install or replace cruise control lever. 3. Reassemble and adjust. 	772-4232	0.7
I-11	Drive Shaft: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panel (A-03). 2. Remove fenders (A-05). 3. Remove instrument panel (A-10). 4. Remove/install or replace drive shaft. 5. Reassemble. 	772-4232	1.5
I-12	Hydro Pickup Tube: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove fenders (A-05). 2. Remove/install or replace hydro pickup tube. 3. Reassemble. 	772-4232	0.7
I-13HY	Transmission: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove fenders (A-05). 2. Disconnect drive line and all linkages. 3. Remove/install or replace transmission. 4. Reassemble and adjust. 	772-4232	1.5
I-13A	Transmission: Overhaul	<ol style="list-style-type: none"> 1. Remove transmission (I-13HY). 2. Disassemble and replace any worn or damaged parts. 3. Reassemble and install into frame. 4. Adjust and complete reassembly. 	772-4232	3.0



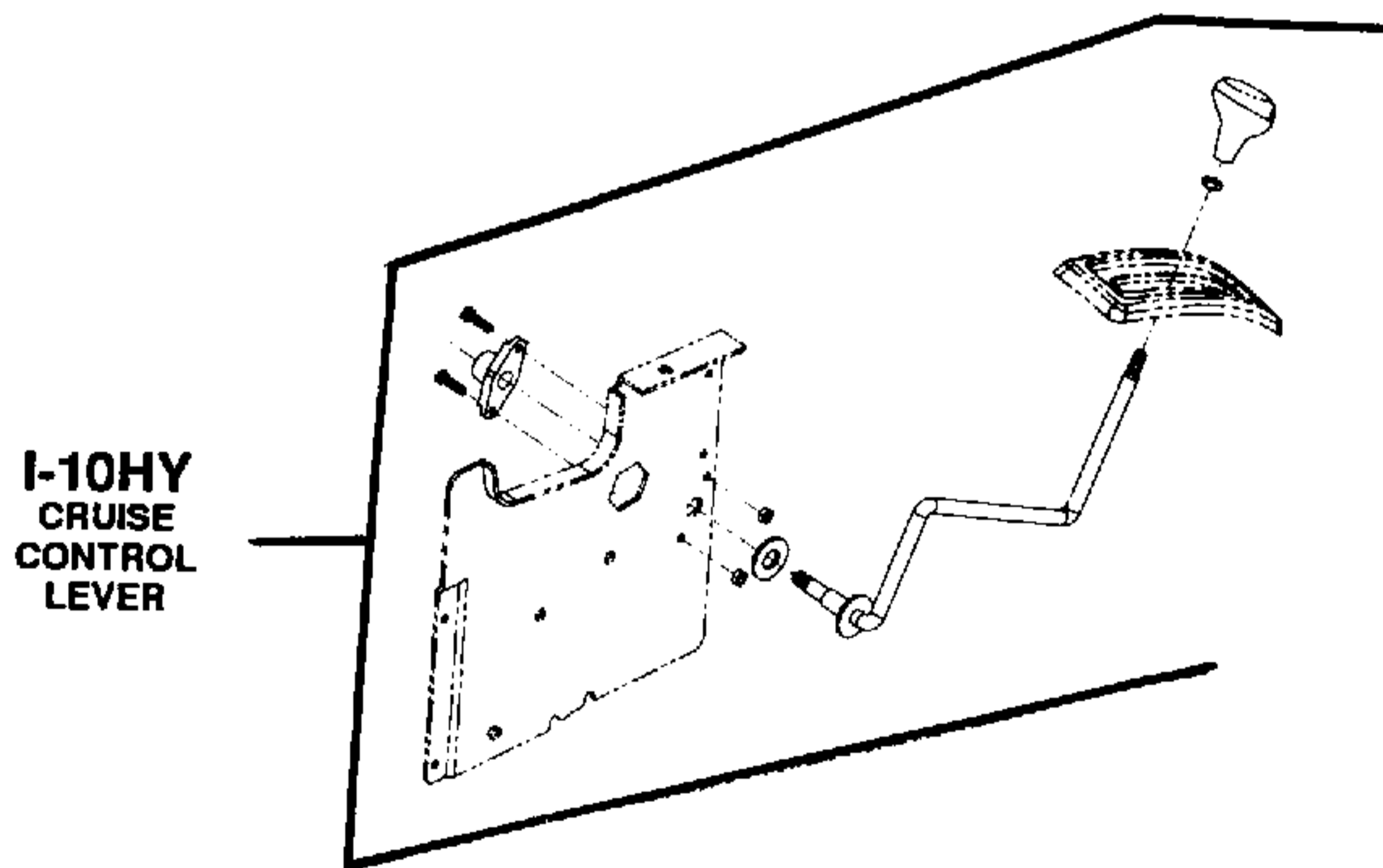
I-07HY
DAMPER CYLINDER



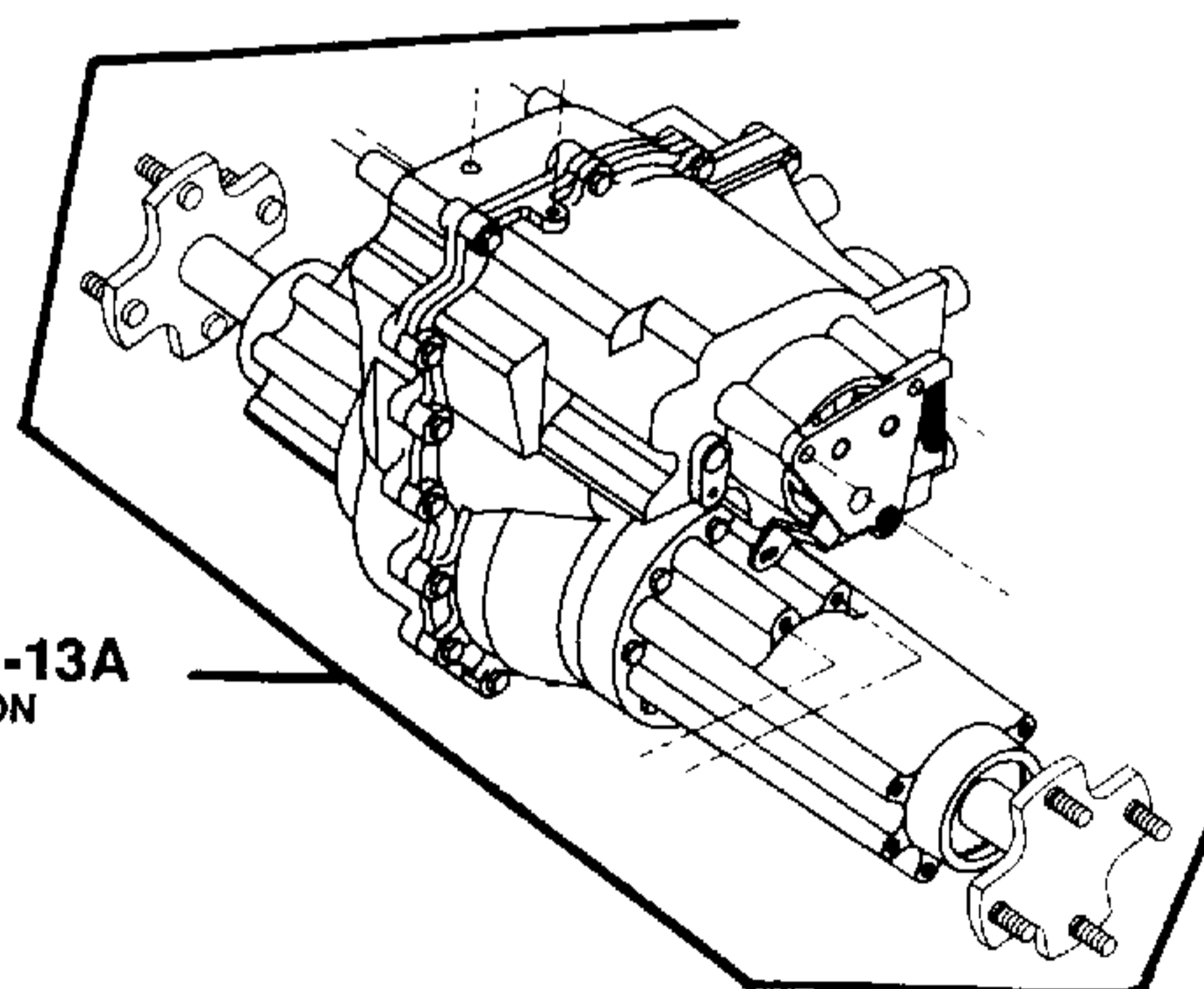
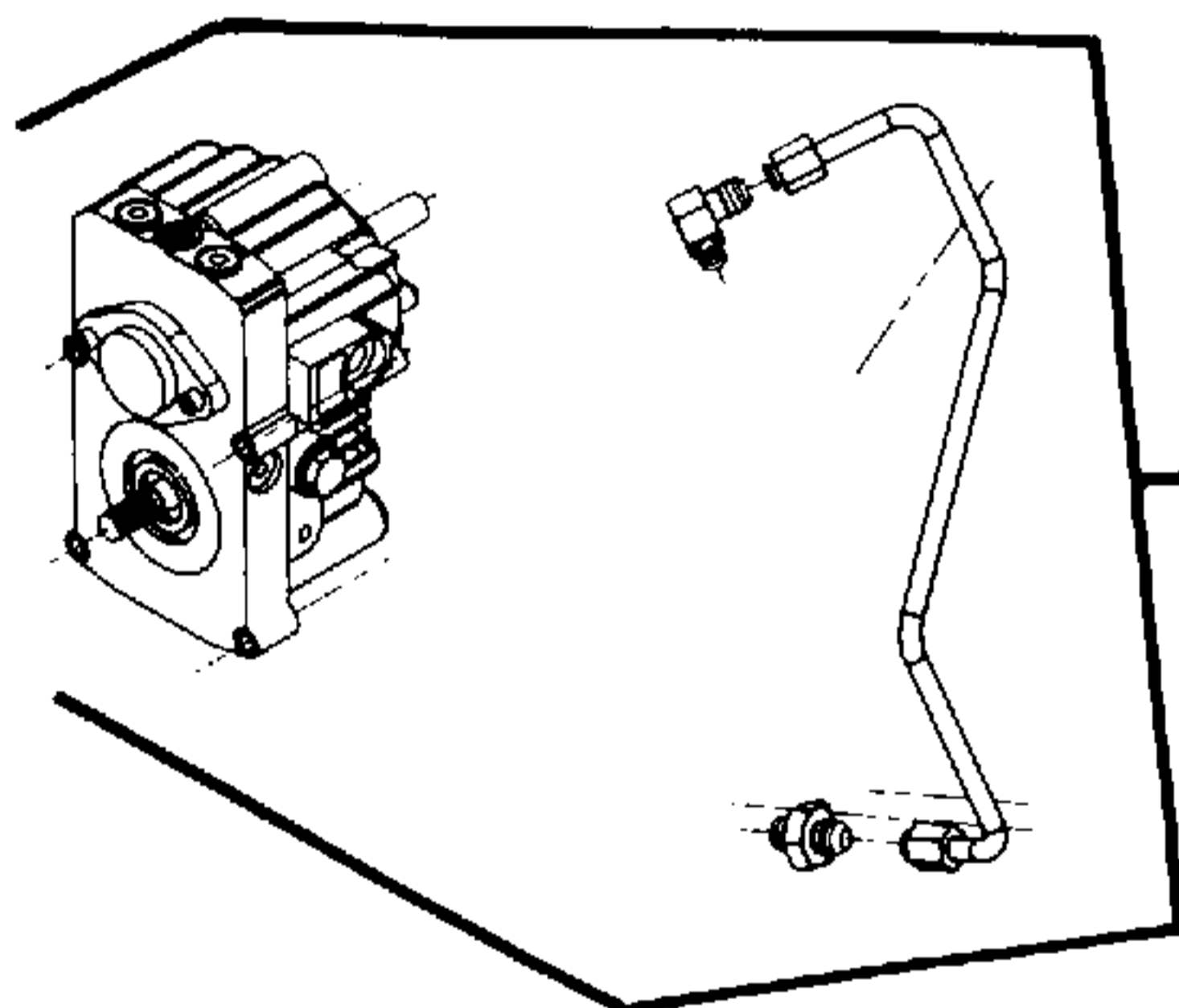
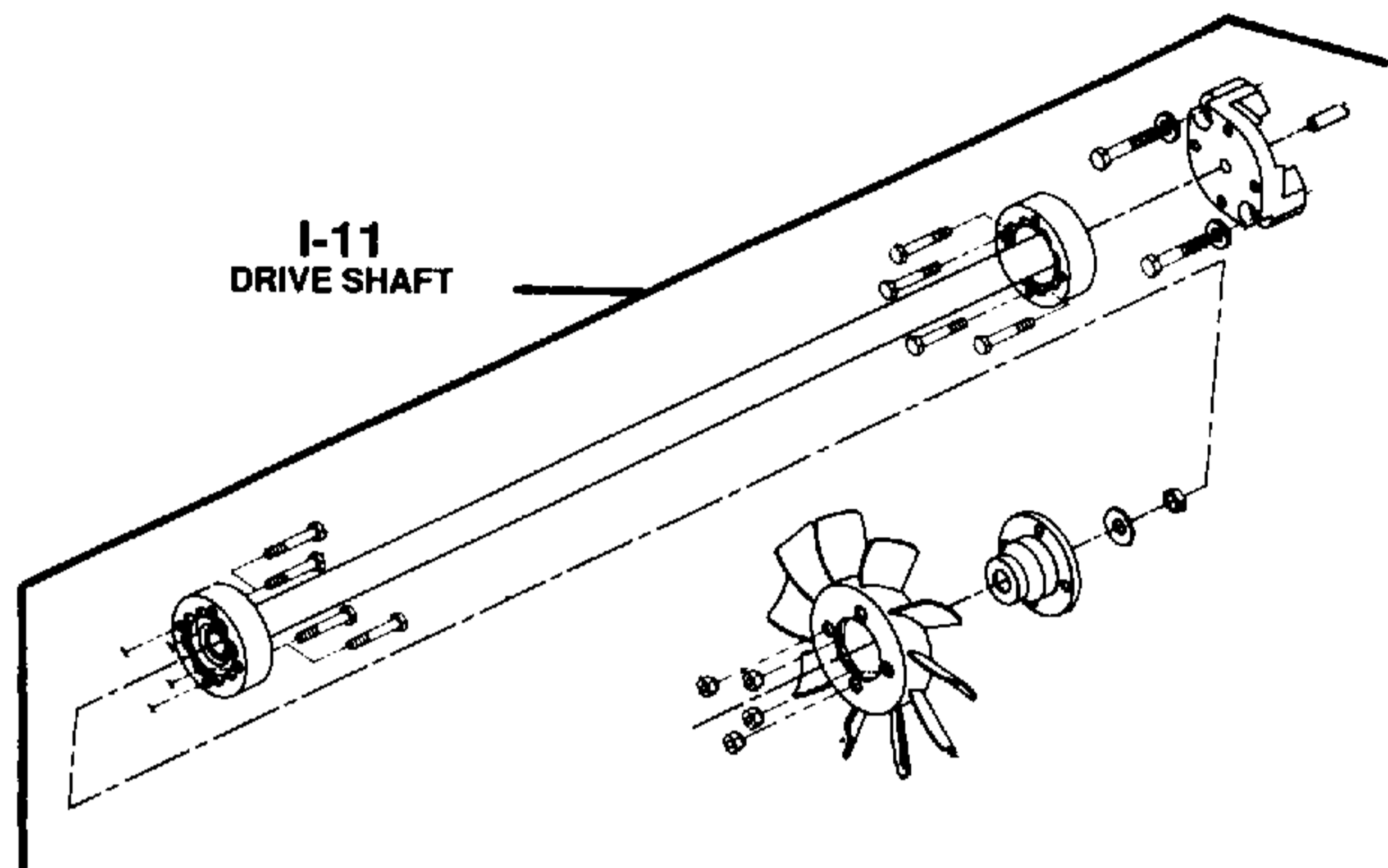
I-08
FORWARD AND
REVERSE PEDAL
ASSEMBLY



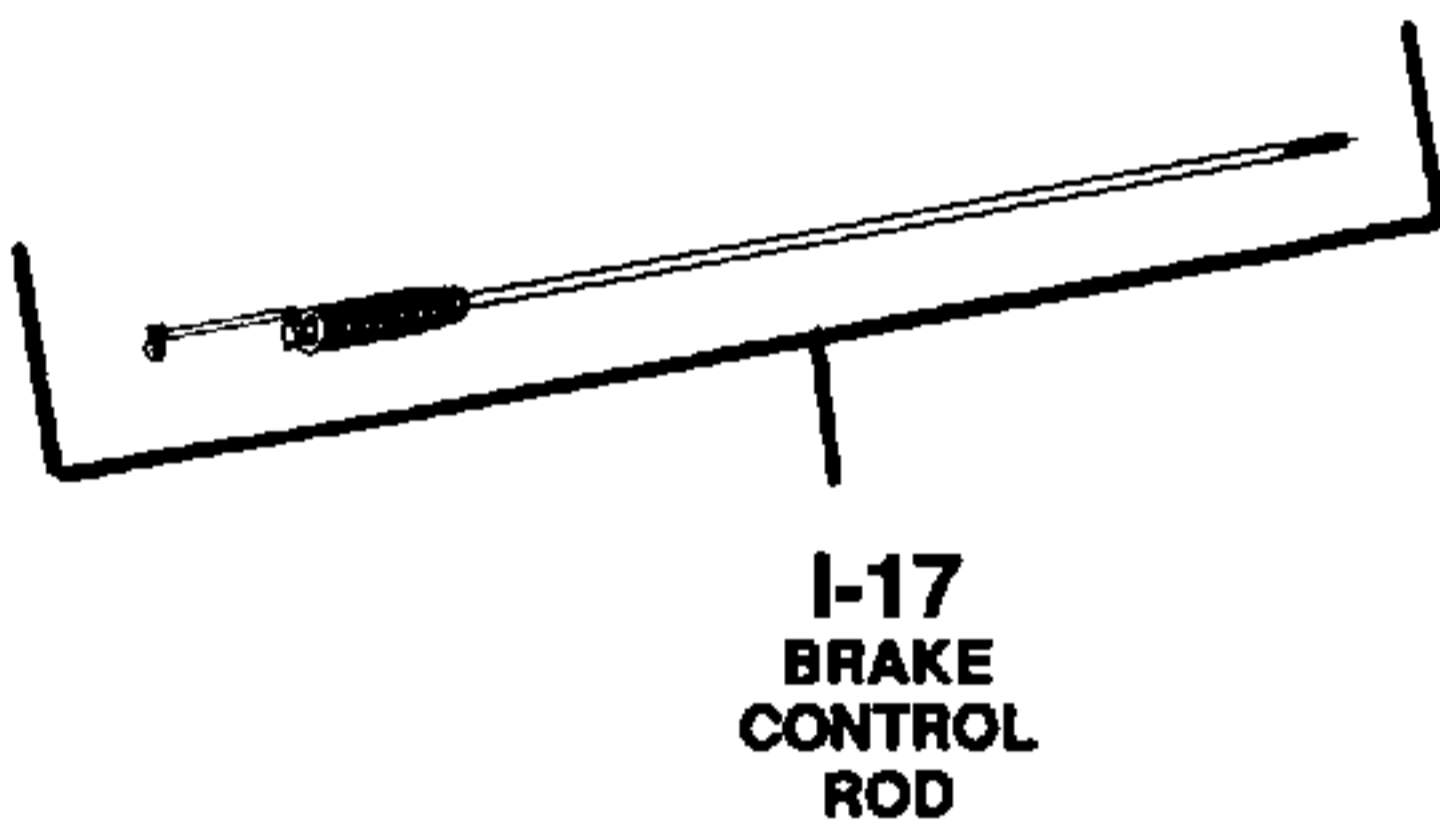
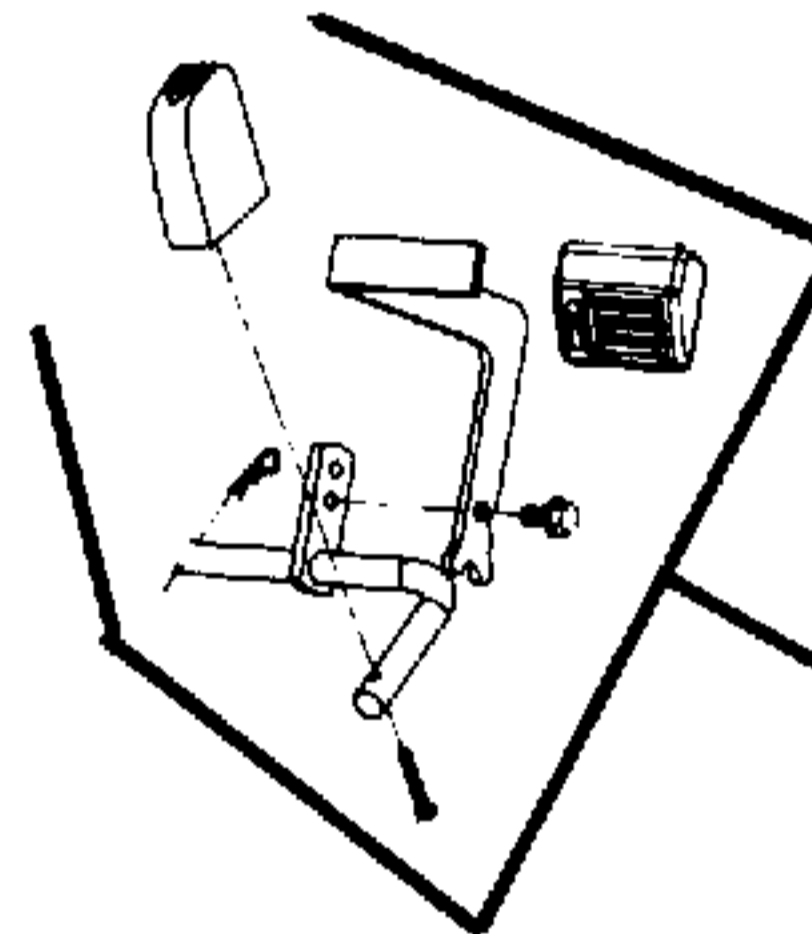
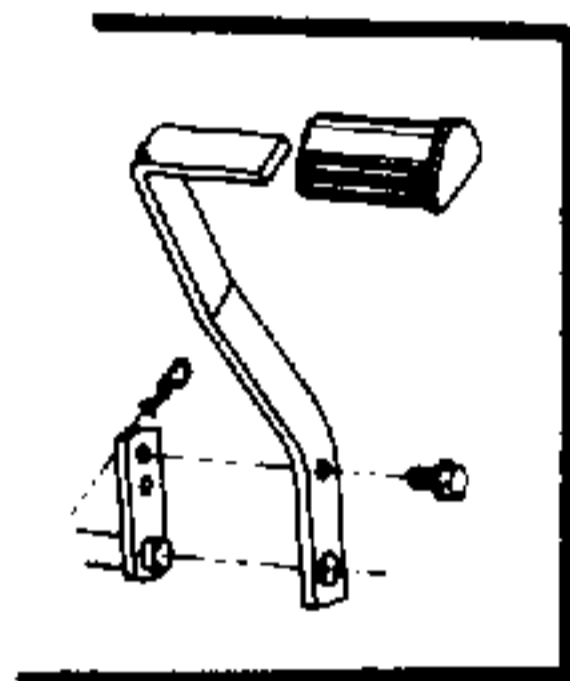
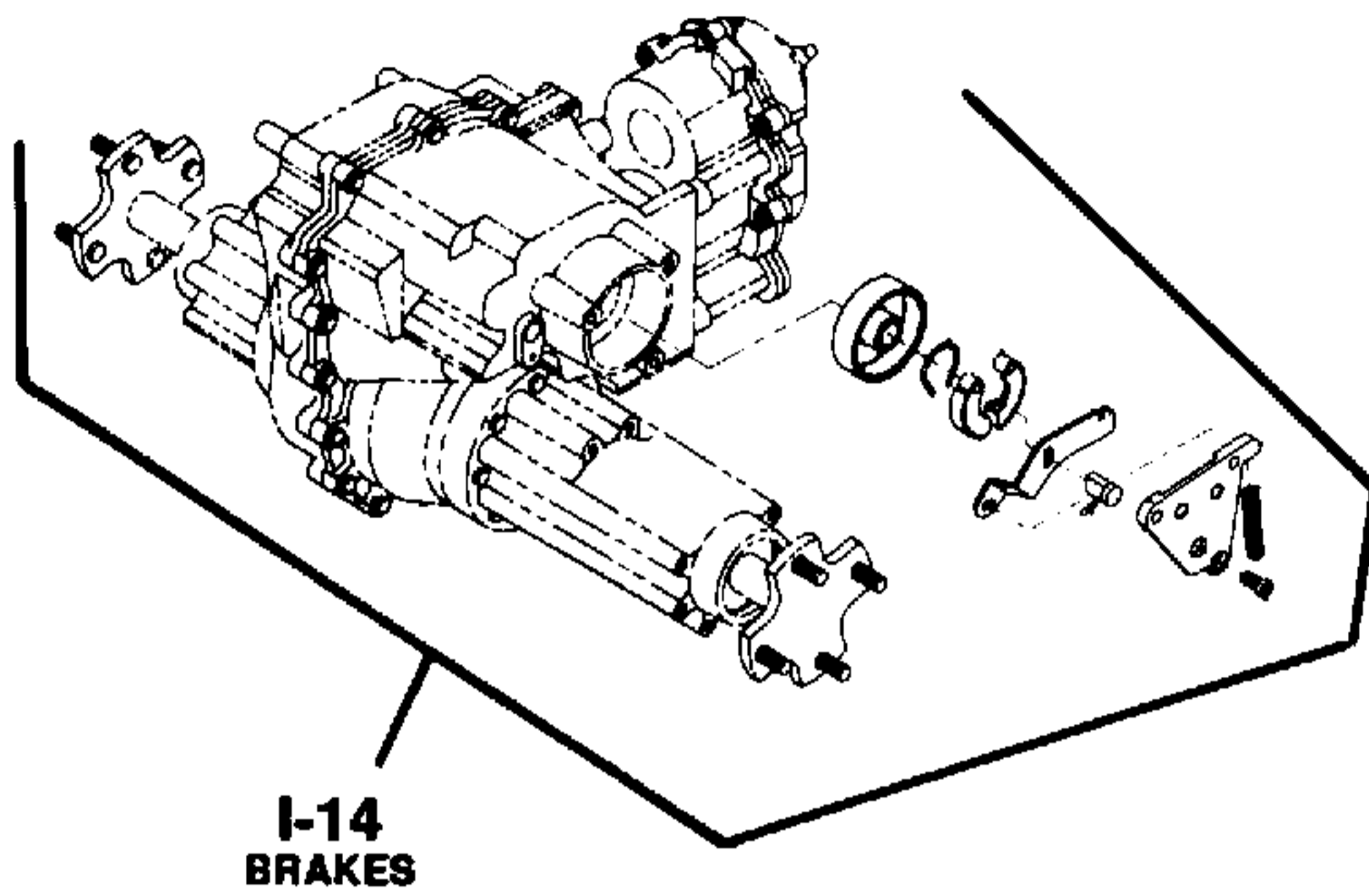
I-09HY
HYDRO
CONTROL
ROD



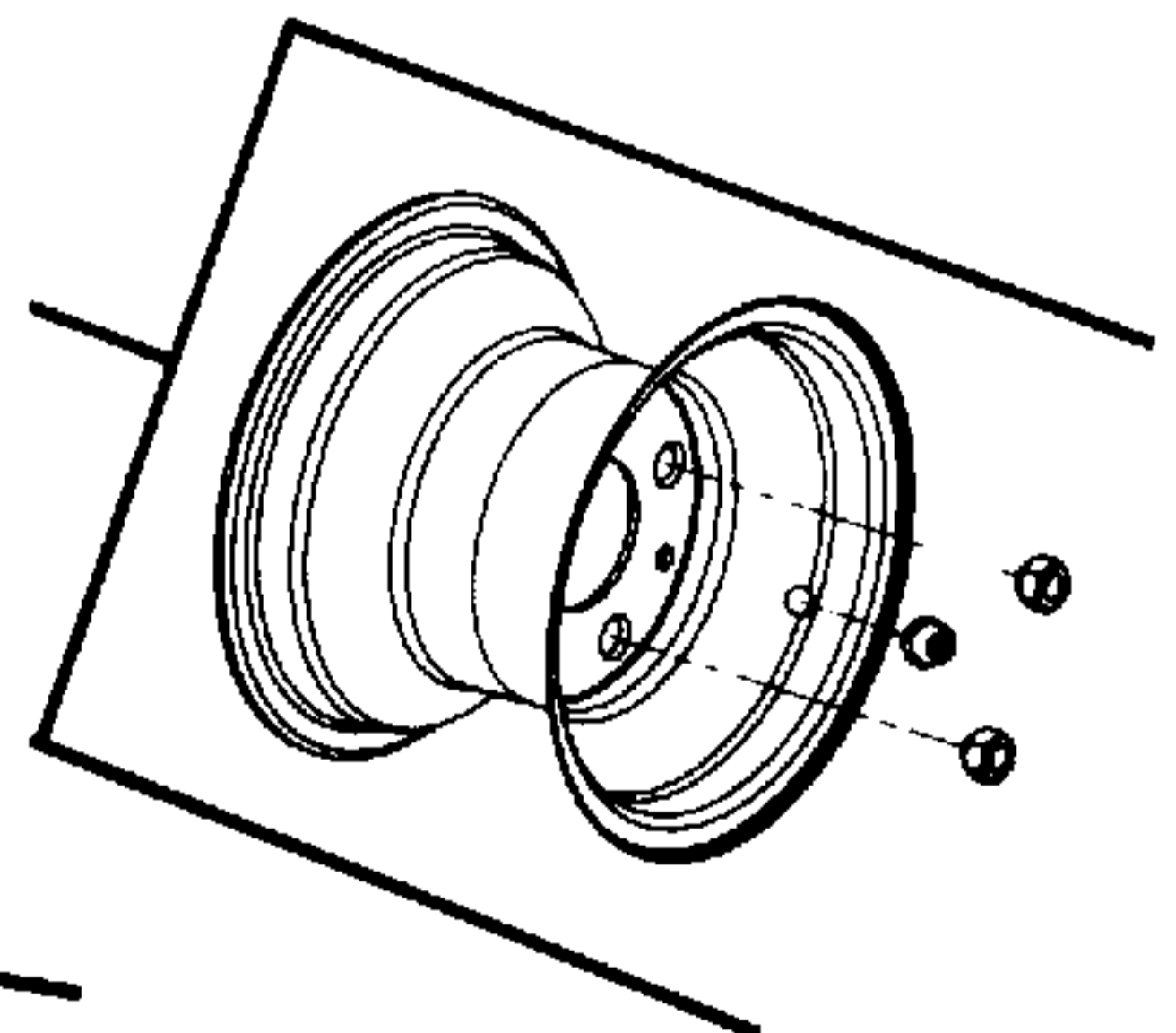
I-10HY
CRUISE
CONTROL
LEVER



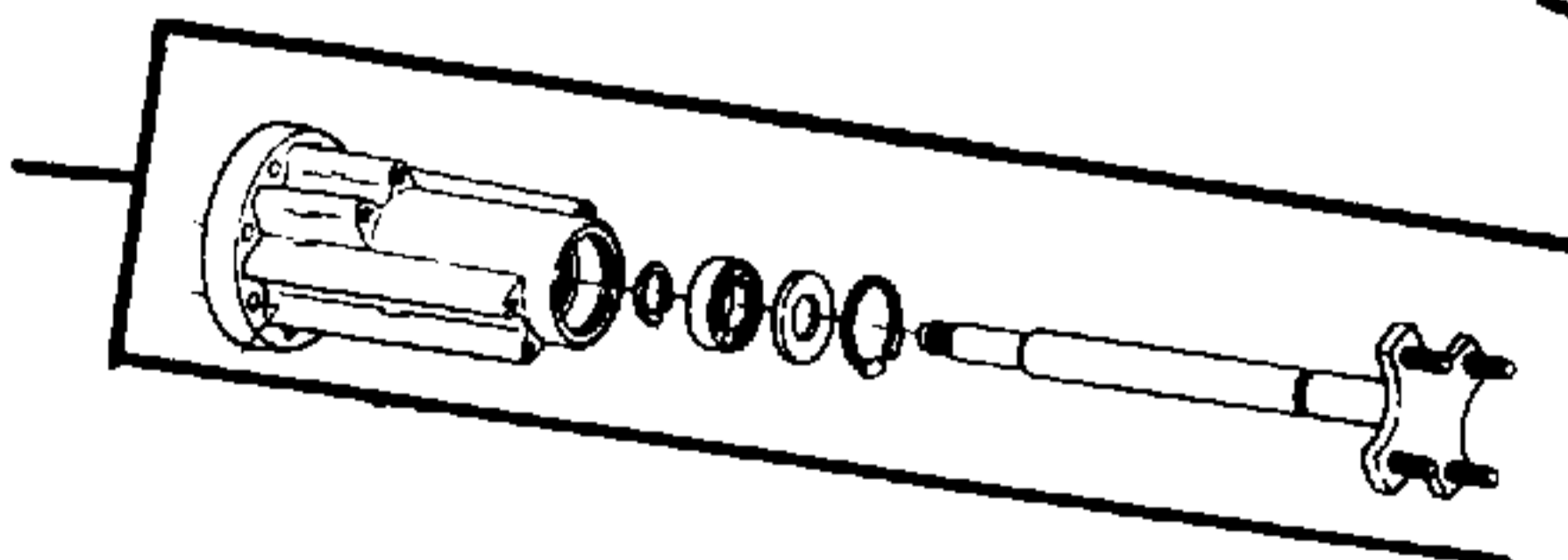
OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
I-14	Brakes: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove transmission (I-13HY). 2. Remove/install or replace brake. 3. Reassemble and adjust. 	772-4232	2.0
I-15	Brake Pedal: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace brake pedal. 2. Reassemble. 	772-4232	0.3
I-16	Forward and Reverse Pedal: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace forward and reverse pedal. 2. Reassemble. 	772-4232	0.3
I-17	Brake Control Rod: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove/install or replace brake control rod. 2. Reassemble and adjust. 	772-4232	0.4
I-18	Axle Shaft, Seal, Bearing or Housing: Remove/Install or Replace (one side)	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove transmission (I-13HY). 3. Remove/install or replace axle shaft, seal, bearing or housing. 4. Reassemble and adjust. 5. Lower tractor. 	772-4232	2.0
I-19	Wheel Rim: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Raise tractor. 2. Remove wheel and tire assembly (B-08). 3. Remove/install or replace rim. 4. Reassemble. 5. Lower tractor. 	772-4232	0.3

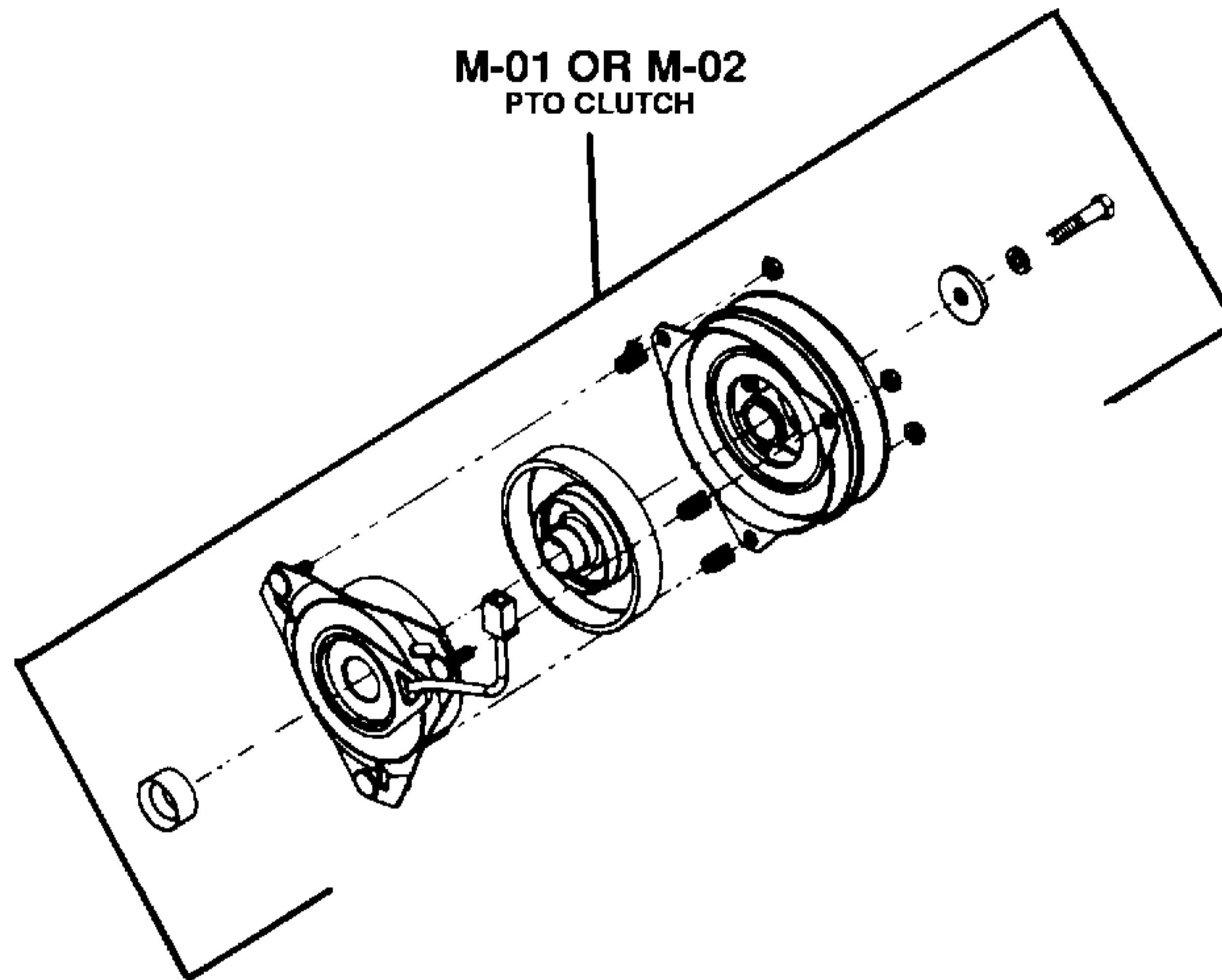


I-19
WHEEL RIM



I-18
AXLE SHAFT,
SEAL, BEARING
OR HOUSING





OPERATION NUMBER	OPERATION DESCRIPTION	OPERATION INCLUDES:	SERVICE MANUAL NUMBER	FLAT RATE TIME
M-01	PTO Clutch: Remove/Install or Replace	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove hood (A-01). 3. Remove/install or replace PTO clutch. 4. Reassemble. 5. Adjust air gap (M-03). 	772-4232	1.2
M-02	PTO Clutch: Overhaul	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove hood (A-01). 3. Remove PTO clutch (M-01) and disassemble. 4. Clean and replace all worn parts. 5. Reassemble. 6. Adjust air gap (M-03). 	772-4232	1.7
M-03	PTO Clutch: Adjust (air gap)	<ol style="list-style-type: none"> 1. Remove side panels (A-03). 2. Remove hood (A-01). 3. Adjust air gap. 4. Reassemble. 	772-4232	0.5

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