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PARTS MANUAL
VR-642B
TELESCOPIC MATERIAL HANDLER

Effective with S/N 169649,

Including S/N 168884



CPN 13226964

April 1, 2002

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HOW TO USE THIS MANUAL

This Parts Manual applies to all **VR-642B - Effective with S/N 169649, Including S/N 168884 - Telescopic Material Handlers**

When the Comm. # is not Known - Use the Word Index:

- Ingersoll-Rand's Word Index will make this item easy to locate. The Word Index is found in the very back of the book. The items listed are in alphabetical order and may be repeated several times depending on their functional descriptions.

- Let's assume you need to replace the **PRIMARY AIR CLEANER FILTER ELEMENT.**

Use any of the functional words in the item description to locate the desired item. Example: The first listing for the **Primary Air Cleaner Filter Element** in the **Word Index** is: Air Cleaner Primary Filter Element. The index shows the component will be found on page C.3.3 which is the **Parts List** page number for the Air Cleaner Installation.

A
Air Cleaner Primary Filter Element _____ C.3.3
Air Cleaner Secondary Filter Element _____ C.3.3
Air Cleaner _____ C.3.3
Air Filter Service Indicator _____ C.3.3
Alarm, Backup_____ E.3.3
Alternator_____ C.1.3
Apron, Quick-Attach_____ F.10.3
Arm, Load _____ F.9.3, F.11.3, F.16.3
Auxiliary Hydraulics Chassis Harness _____ H.18.3
Auxiliary Hydraulics Control Switch _____ H.18.3
Axle, Front_____ B.1.3
Axle, Rear _____ B.1.3

- The item is also listed as:

Element, Air Cleaner Primary Filter
Filter Element, Air Cleaner Primary
Primary Filter Element, Air Cleaner

Using the Parts Identification Pages:

- The **PARTS IDENTIFICATION PAGES** consist of the **PARTS ILLUSTRATION** (even numbered pages) and the **PARTS LIST** (odd numbered pages).

- The **Parts Illustration** shows the assembly with its component parts identified by **Item Numbers**.

- On the **Parts List**, the components are listed in **Item Number** order as found in the **ITEM** column. Other information provided by the **Parts List** is the **Comm. Number** which will be required to order Genuine Ingersoll-Rand Replacement Parts, a **functional description**, the **quantity** required to assemble one complete assembly, and any additional **notes/ dimensions** required to help place your parts order.

- **For the example: The Primary Filter Element is listed under Item 5, Air Cleaner. The Comm. Number for the Primary Filter Element is** 54484092**, Quantity of 1.**

When the Comm. # is not known - Use the Table of Contents:

- Turn to the **TABLE OF CONTENTS** pages in the front of this manual. These pages show the major systems of the machine divided into **FUNCTIONAL GROUPS** (identified by capital letters).
- Find the **Functional Group** that best describes the area of the machine you are interested in. For example: **Engine**
- See the sample **Table of Contents** shown below:

ENGINE

C

Engine/Transmission Installation.....C.1.2
Throttle Assembly C.2.2
Air Cleaner Installation.....C.3.2
Exhaust Installation C.4.2
Radiator/Oil Cooler Installation C.5.2
Transmission Cooling Lines Installation C.6.2
Ether Start Installation - Optional.....C.7.2

Listed under the **Functional Group** of **Engine** are **SECTIONS** (identified by numbers that describe major repairable components of that group. Find the listing that refers to the Air Cleaner Installation.

- Since the Air Cleaner **Primary Filter Element** is what needs to be replaced, refer to the parts listing for the Air Cleaner**.** The Air Cleaner used on your machine is found in **Functional Group C.; Section 3**, this makes up the first part of the page number. Turn to that section of the parts manual and find the parts listing on page **C.3.3** for the **Air Cleaner** (54524418)**.**

When the Comm. # is Known - Use the Numerical Index:

- If you already know the **Comm. Number** (part number) for the item required, a **NUMERICAL INDEX** is provided in the back of the manual to assist you. Look up the **Comm. Number** desired and the **Numerical Index** will show the **Functional Group, Section, and Page Number** where the item can be found.

For our Primary Air Cleaner Filter Element Example: The **Comm. Number** 54484092 is found in the **Numerical Index**, it shows that component will be found on page C.3.3. C.3.3 is the **Parts List** page number for the Air Cleaner Installation.

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TABLE OF CONTENTS
VR-642B

TITLE	PAGE
TABLE OF CONTENTS	A
ABBREVIATIONS USED IN THIS MANUAL	E
RECOMMENDED SERVICE PARTS	F

MAIN FRAME

A

Sheet Metal Installation	A.1.2
Engine Cover Assembly	A.2.2
Ballast Installation	A.3.2
Fuel Tank Installation	A.4.2
Fuel Tank Assembly	A.5.2
Hydraulic Tank Installation	A.6.2
Hydraulic Tank Assembly	A.7.2
Fuel Lines Installation	A.8.2

For Internal Breakdowns - See Section I.

AXLE

B

Axle Installation	B.1.2
Wheel And Tire Assembly	B.2.2

For Internal Breakdowns - See Section I.

ENGINE/TRANSMISSION

C

Engine/Transmission Installation	C.1.2
Throttle Assembly	C.2.2
Air Cleaner Installation	C.3.2
Exhaust Installation	C.4.2
Radiator/Oil Cooler Installation	C.5.2
Transmission Cooling Lines Installation	C.6.2
Ether Start Installation - Optional	C.7.2

For Internal Breakdowns - See Section I.

OPERATOR'S COMPARTMENT

D

Cab Installation	D.1.2
Console Assembly	D.2.2
Gauge Panel Assembly	D.3.2
Seat Installation	D.4.2
Manual Case, Pointer And Mirror Installation	D.5.2
Vandal Protection Installation - Optional	D.6.2
Cab Accessory Installation - Optional	D.7.2

For Internal Breakdowns - See Section I.

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TABLE OF CONTENTS - Continued
VR-642B

TITLE PAGE

ELECTRICAL

E

Wiring Harness Installation E.1.2
Battery and Horn Installation E.2.2
Backup Alarm Installation E.3.2
Road Light Installation - Optional E.4.2
Worklight Installation - Optional E.5.2
Stop/Turn Signal Light Assembly- Optional E.6.2
Beacon Light Installation - Optional E.7.2

BOOM AND CARRIAGE

F

Boom Installation F.1.2
Boom Assembly F.2.2
Crowd Cylinder Assembly F.3.2
Outer Boom Section Assembly F.4.2
Intermediate Boom Section Assembly F.5.2
Inner Boom Section Assembly F.6.2
Crowd Cylinder Chain Sheave Assembly F.7.2
Intermediate Boom Chain Sheave Assembly F.8.2
Quick-Attach Carriage Installation F.9.2
Quick-Attach Apron Assembly F.10.2
Side Tilt Carriage Installation - Optional F.11.2
Truss Boom Installation - Optional F.12.3
Load Bucket Installation - Optional F.13.2
Block-Type Forks Installation F.14.2
Tapered Forks Installation F.15.2
Swing Carriage Installation - Optional F.16.2
Swing Carriage Assembly - Optional F.17.2

For Internal Breakdowns - See Section I.

DECALS

G

Decal Installation G.1.2
Cab Decal Installation G.2.2
Joystick Decal Installation - Dual Control Joystick G.3.2
Joystick Decal Installation - Single Control Joystick G.4.2

HYDRAULICS

H

Hydraulic Pump, Filter And Tank Adapters Installation H.1.2
Hydraulic Pump Assembly H.2.2
Hydraulic Filter Assembly H.3.2
Hydraulic Pump And Filter Hosing Installation H.4.2

https://truckmanualshub.com/

TABLE OF CONTENTS - Continued
VR-642B

TITLE PAGE

HYDRAULICS (Continued)

Steering And Brake Installation H.5.2
Steering Orbital Assembly H.6.2
Steering Priority Valve Assembly H.7.2
Brake Valve Assembly H.8.2
Steering Selector Valve Assembly H.9.2
Steering And Brake Hosing Assembly H.10.2
Crowd And Lift Valve Installation H.11.2
Crowd And Lift Valve Assembly H.12.2
Crowd And Lift Hosing Assembly H.13.2
Frame Level/Fork Tilt Installation H.14.2
Frame Level/Fork Tilt Hosing Assembly H.15.2
Hydraulic Bracket Installation H.16.2
Hydraulic Test Ports - Optional H.17.2
Single Function Auxiliary Hydraulics Installation H.18.2
Joystick Installation - Dual Control H.19.2
Crowd/Lift Joystick Assembly - Dual Control H.20.2
Main Manifold Assembly- Dual Control H.21.2
Joystick Hosing Assembly - Dual Control H.22.2
Drain Manifold Assembly - Dual Control H.23.2
Joystick Installation - Single Control H.24.2
Crowd/Lift Joystick Assembly - Single Control H.25.2
Main Manifold Assembly- Single Control H.26.2
Joystick Hosing Assembly - Single Control H.27.2
Drain Manifold Assembly - Single Control H.28.2
Stabilizer Hydraulics Installation H.29.2
Stabilizer Electrical Assembly H.30.2
Stabilizer Assembly H.31.2

For Internal Breakdowns - See Section I.

INTERNAL BREAKDOWNS

I

Front Axle (59251637) I.1.2
Rear Axle (59251645) I.2.2
Open Cab Assembly (59290676) I.3.2
Enclosed Cab Assembly (59290692) I.4.2
Standard Seat (59156893) I.5.2
Suspension Seat (59156901) I.6.2
48" Side/Tilt Quick-Attach Carriage w/Orifice (59199687) I.7.2
60" Side/Tilt Quick-Attach Carriage w/Orifice (59199695) I.8.2
Brake Valve (59113480) I.9.2
Stabilizer Cylinder (59136937) I.10.2

MAINTENANCE INTERVAL KITS

M

Maintenance Interval Kits
250-Hour M.1.2
1000-Hour M.2.2

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TABLE OF CONTENTS - Continued
VR-642B

PUBLICATIONS & TRAINING

P

Manuals P.1.2

WORD INDEX

W

Word Index W.1.2

NUMERIC INDEX

X

Numeric Index X.1.2

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STANDARD ABBREVIATIONS

AC	Alternating Current
A/R	As Required
ARC	Authorized Rebuilt Component
Assy	Assembly
BHCS	Button Head Cap Screw
Cu Yd	Cubic Yard
Cyl	Cylinder
DC	Direct Current
Dia	Diameter
Eff	Effective
FHCS	Flat Head Cap Screw
F-N-R	Forward-Neutral-Reverse
FOPS	Falling Object Protection System
F/P	Fork Positioning
Gr	Grade
HHCS	Hex Head Cap Screw
HHMS	Hex Head Machine Screw
HSBHCS	Hex Socket Button Head Cap Screw
ID	Inside Diameter
LH	Left Hand
M	Metric
MIK	Maintenance Interval Kit
mm	Millimeter
Nat Asp	Naturally Aspirated
Neg	Negative
NSS	Not Sold Separately
NSVA	Non Serviceable Assembly
OD	Outside Diameter
Pos	Positive
PSI	Pounds per Square Inch
Q/A	Quick-Attach
Ref	Reference
RH	Right Hand
RHSS	Round Head SelfTapping Screw
ROPS	Roll-Over Protection System
RPM	Revolutions Per Minute
SAE	Society of Automotive Engineers
Sec	Section
SFH	Slotted Fillister Head
SHCS	Socket Head Cap Screw
SMV	Slow Moving Vehicle
S/N	Serial Number
SPST	Single Pole/Single Throw
S.T.	Self-Tapping
Std	Standard
Str	Straight
Sw	Swivel
Tach	Tachometer
Temp	Temperature
Thd	Thread
Thk	Thick
Typ	Typical
UNC	Unified Coarse
UNF	Unified Fine
Univ	Universal
Var	Variable
V	Volt
VPM	Vibrations Per Minute
Wgt	Weight
w/	With
w/o	Without
Wp	Weatherproof

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RECOMMENDED SERVICE PARTS

VR-642B Current Production
Quantities are for one unit having the operating hours listed below

0 to 1,000 operating hours

Assembly	Description	Qty	CPN
Engine/Transmission			
	Maintenance Interval Kit - 250 Hr.+	1	59261545
	Air Cleaner Primary Filter Element+	1	54484092
	Air Cleaner Safety Filter Element+	1	54493259
	Fan Belt	1	58887506
Engine/Transmission - General			
	Radiator Cap	1	59129171
	Waterbottle Cap	1	59154807
Main Frame - General			
	Engine Cover Pull Handle	1	59187799
	Fuel Cap	1	59182428
	Hydraulic Cap	1	59182410
Operator's Compartment			
	Spinner Knob	1	59199141
	Transmission Shifter	1	59113696
	-Shifter Clamp	1	59291245
Electrical			
	Ignition Switch	1	59126946
	-Ignition Key	1	58917261

+ Designates parts that are to be replaced within the specified time intervals as stated in the maintenance schedule.

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RECOMMENDED SERVICE PARTS

VR-642B Current Production
Quantities are for one unit having the operating hours listed below

1,000 to 3,000 operating hours

Assembly	Description	Qty	CPN
Engine/Transmission			
	Maintenance Interval Kit - 1,000 Hr.+	1	59261560
	Starter	1	54617014
	Alternator	1	59106435
	Upper Radiator Hose	1	59113274
	-Clamp	3	95302683
	Lower Radiator Hose	1	59113282
	-Clamp	1	95286266
	Waterbottle	1	54467329
	Throttle Lever	1	59115725
	Battery Cable – Positive	1	59174656
	Battery Cable – Negative	1	13159553
Engine/Transmission – General			
	Fuel Level Sender	1	59129528
	Transmission Temperature Sender	1	59302554
	Engine Oil Pressure Sender	1	58878000
	Engine Coolant Temperature Sender	1	59816322
	Engine Oil Pressure Switch	1	59124578
	Ether Start Thermo Switch	1	59352476
	Ether Start Cold Start Switch	1	59114165
Operator's Compartment - General			
	Parking Brake Switch	1	59114108
	Steering Mode Switch	1	59114116
	Hourmeter	1	59165001
	Transmission Temperature Gauge	1	59113761
	Voltmeter	1	59044297
	Oil Pressure Gauge	1	59046904
	Fuel Level Gauge	1	59046920
	Water Temperature Gauge	1	59132324

+ Designates parts that are to be replaced within the specified time intervals as stated in the maintenance schedule.

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RECOMMENDED SERVICE PARTS

VR-642B Current Production
Quantities are for one unit having the operating hours listed below

1,000 to 3,000 operating hours - Continued

Assembly	Description	Qty	CPN
Booms			
	Crowd Cylinder Assembly:		
	Wear Pad	2	13156799
	Outer Boom Section:		
	Wear Pad	2	13156799
	Wear Pad	2	13156781
	Wear Pad	4	59182196
	Intermediate Boom Section:		
	Wear Pad	6	13156799
	Wear Pad	2	13243639
	Wear Pad	6	59182196
	Inner Boom Section:		
	Wear Pad	4	13156799
	Wear Pad	2	59182196
Electrical			
	Horn	1	13111422
	Backup Alarm	1	59426924
	Worklamp	1	58837949
	Worklight Switch	1	59114124
	Turn Signal Light Assembly	2	59158196
	Turn Signal Light Switch	1	59149138
	Brake Light Switch	1	59157792
	Turn Signal Flasher	1	58961582

+ Designates parts that are to be replaced within the specified time intervals as stated in the maintenance schedule.

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RECOMMENDED SERVICE PARTS

VR-642B Current Production
Quantities are for one unit having the operating hours listed below

1,000 to 3,000 operating hours - Continued

Assembly	Description	Qty	CPN
Hydraulics			
	Oil Pressure Switch	1	59251587
	Auxiliary Hydraulics Control Switch	1	59114173

+ Designates parts that are to be replaced within the specified time intervals as stated in the maintenance schedule.

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RECOMMENDED SERVICE PARTS

VR-642B Current Production
Quantities are for one unit having the operating hours listed below

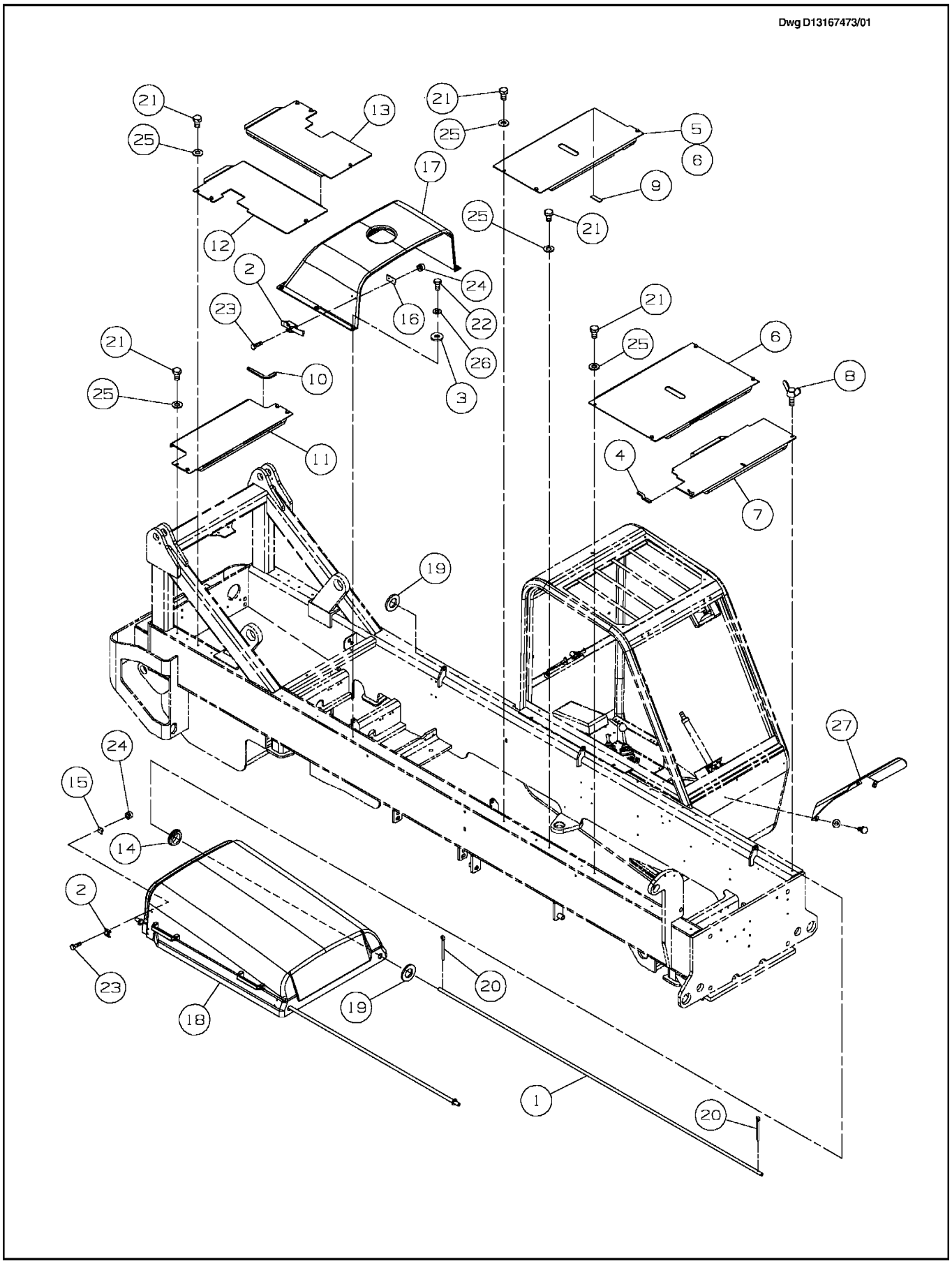
3,000 operating hours plus

Assembly	Description	Qty	CPN
Engine/Transmission - General			
	Muffler	1	58933623
	Muffler Clamp	3	59179218
	Exhaust Pipe	1	13224803
	Exhaust Pipe U-bolt Clamp	3	59137851
	Tail Pipe	1	13195912
Main Frame - General			
	Brake Valve	1	59113480
	-Repair Kit	1	59154617
Booms			
	Bearing	2	50268127
	Spherical Bearing	2	58951674
	Crowd Cylinder Assembly:		
	Chain Sheave	1	59169953
	Bushing	1	59169938
	Outer Boom Section:		
	Bearing	2	50268127
	Spherical Bearing	4	58951674
	Intermediate Boom Section:		
	Hose Sheeve	1	13158019
	Chain Sheave Assembly	1	59297812
	Inner Boom Section:		
	Spherical Bearing	1	58951674

+ Designates parts that are to be replaced within the specified time intervals as stated in the maintenance schedule.

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SHEET METAL INSTALLATION

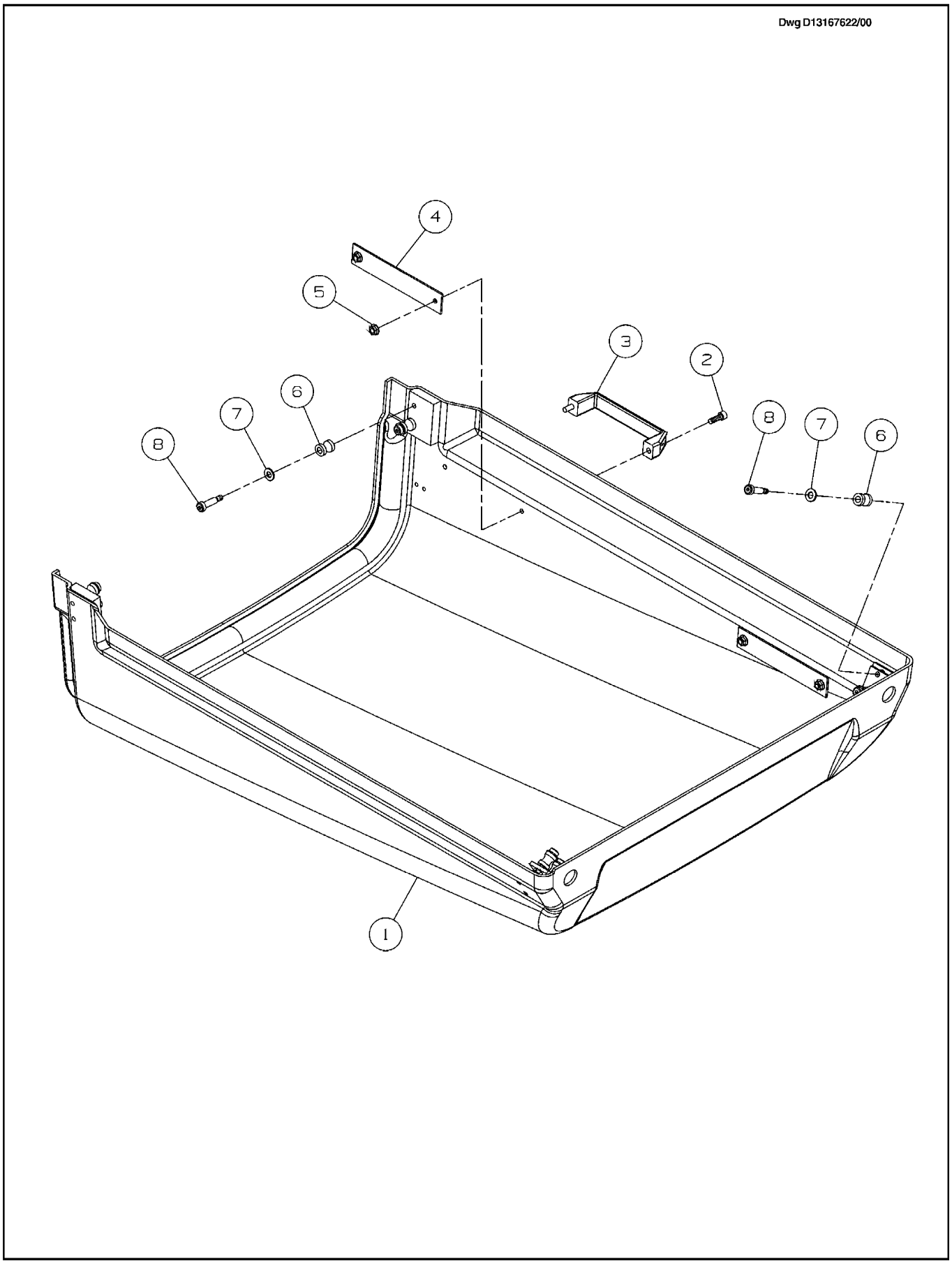


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13162698 & 13158597		
**	13236070	Main Frame	1	
1	13158324	Slide Bar	2	
2	54496328	Draw Latch	1	
3	54601299	Reinforced Rubber Washer	6	
4	58783242	Trim	1	
5	50829654	Trim	1	
6	59115469	Front Plate	2	
7	59116715	Battery Cover Plate	1	
8	59136226	Wingscrew	2	M10 x 25
9	59180281	Wear Pad	1	
10	59182485	Trim	3	
11	59267989	Rear Deck Plate	1	
12	13166178	Right Rear Plate Cover	1	
13	13166186	Left Rear Plate Cover	1	
14	59212746	Grommet	2	
15	59270330	Latch Keeper Backing Plate	1	
16	59270363	Latch Pad Plate	1	
17	59270496	Fiberglass Rear Cover	1	
18	**NSVA**	**Engine Cover Assembly**	**1**	**See Section - A.2**
19	95922423	Washer	4	3/4
20	95923926	Cotter Pin	4	1/8 x 1.25
21	96701479	HHCS	18	M10 x 16
22	96702816	HHCS	6	M8 x 16
23	96704564	HHCS	4	M6-1.0 x 20
24	96704598	Locknut	4	M6
25	96741046	Flatwasher	18	M10
26	96741038	Flatwasher	6	M8
27	59137703	Fender	1	

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ENGINE COVER ASSEMBLY



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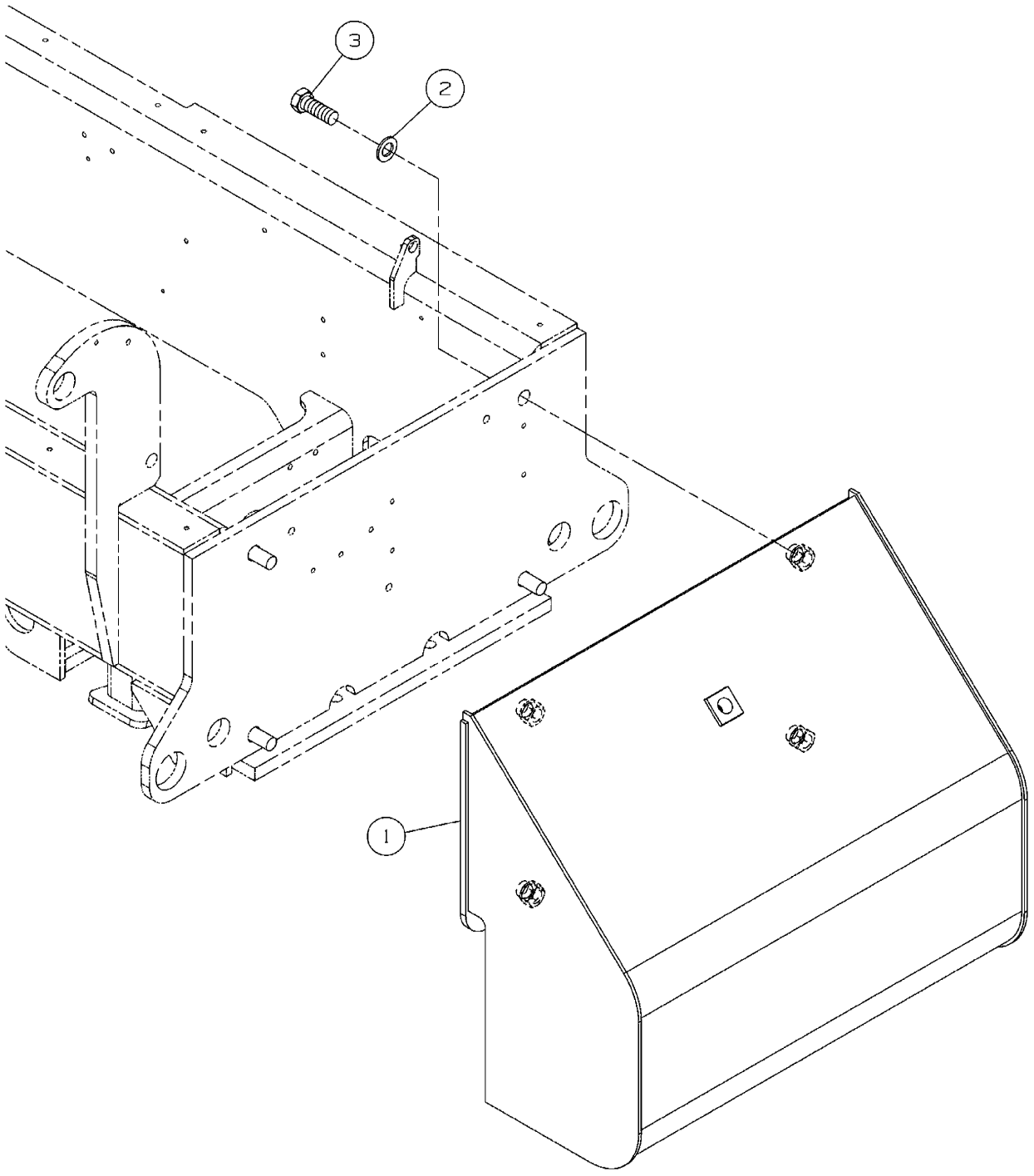
ENGINE COVER ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59300087		
1	59270488	Fiberglass Engine Cover	1	
2	96728712	Hex Socket Head Screw	4	M8 x 25
3	59187799	Plastic Pull Handle	2	
4	59270322	Grab Handle Backing Plate	2	
5	96704416	Locknut	4	M8-1.25
6	59116277	Roller Slide Cover	8	
7	96741046	Flatwasher	8	M10
8	96728357	Socket Shoulder Bolt	8	M8 x 30

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BALLAST INSTALLATION

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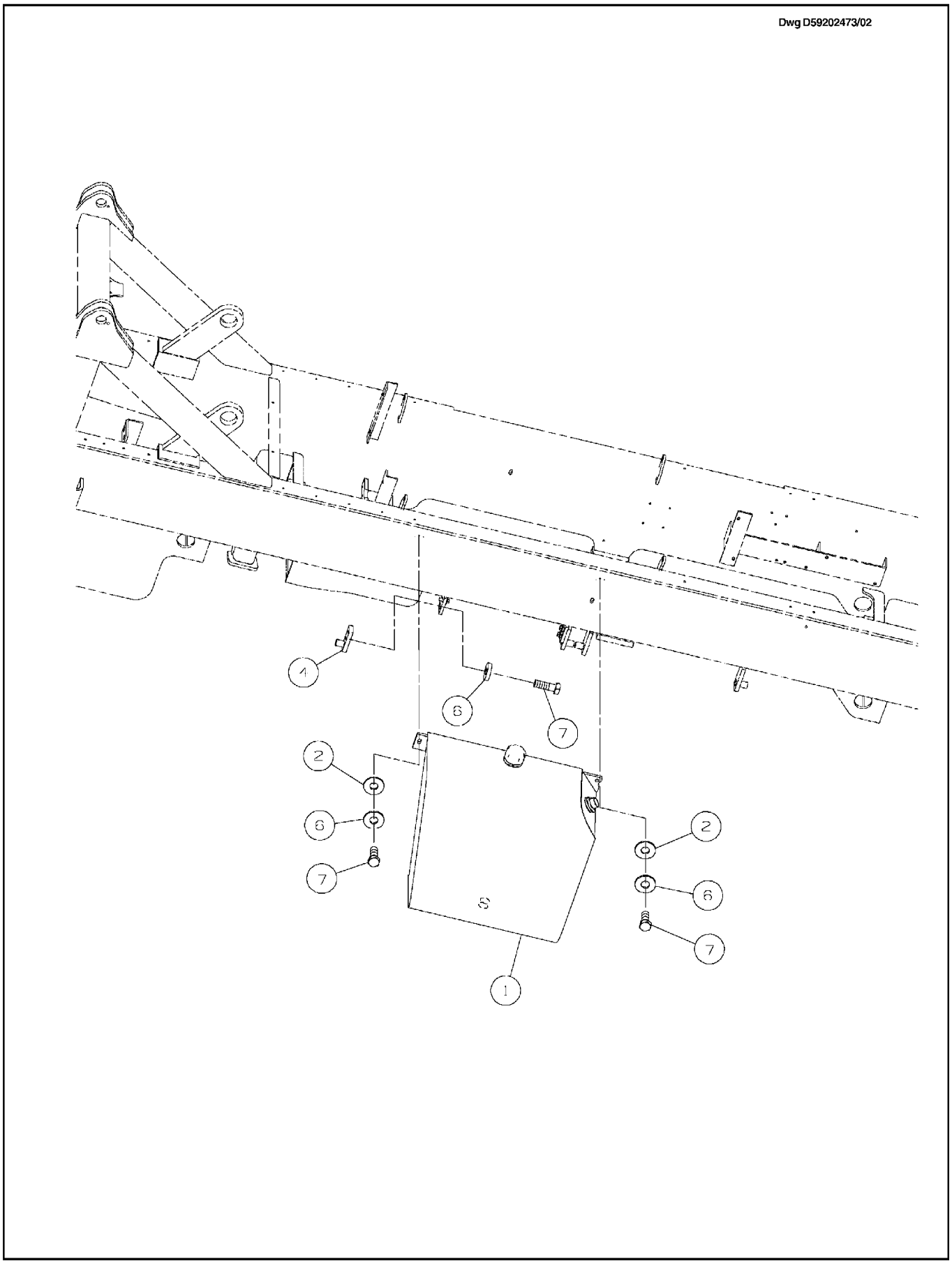
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BALLAST INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13157581		
1	13157599	Counterweight Box	1	
2	96738646	Hardened Flatwasher	4	M24
3	96720008	HHCS	4	M24-3.0 x 65

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FUEL TANK INSTALLATION



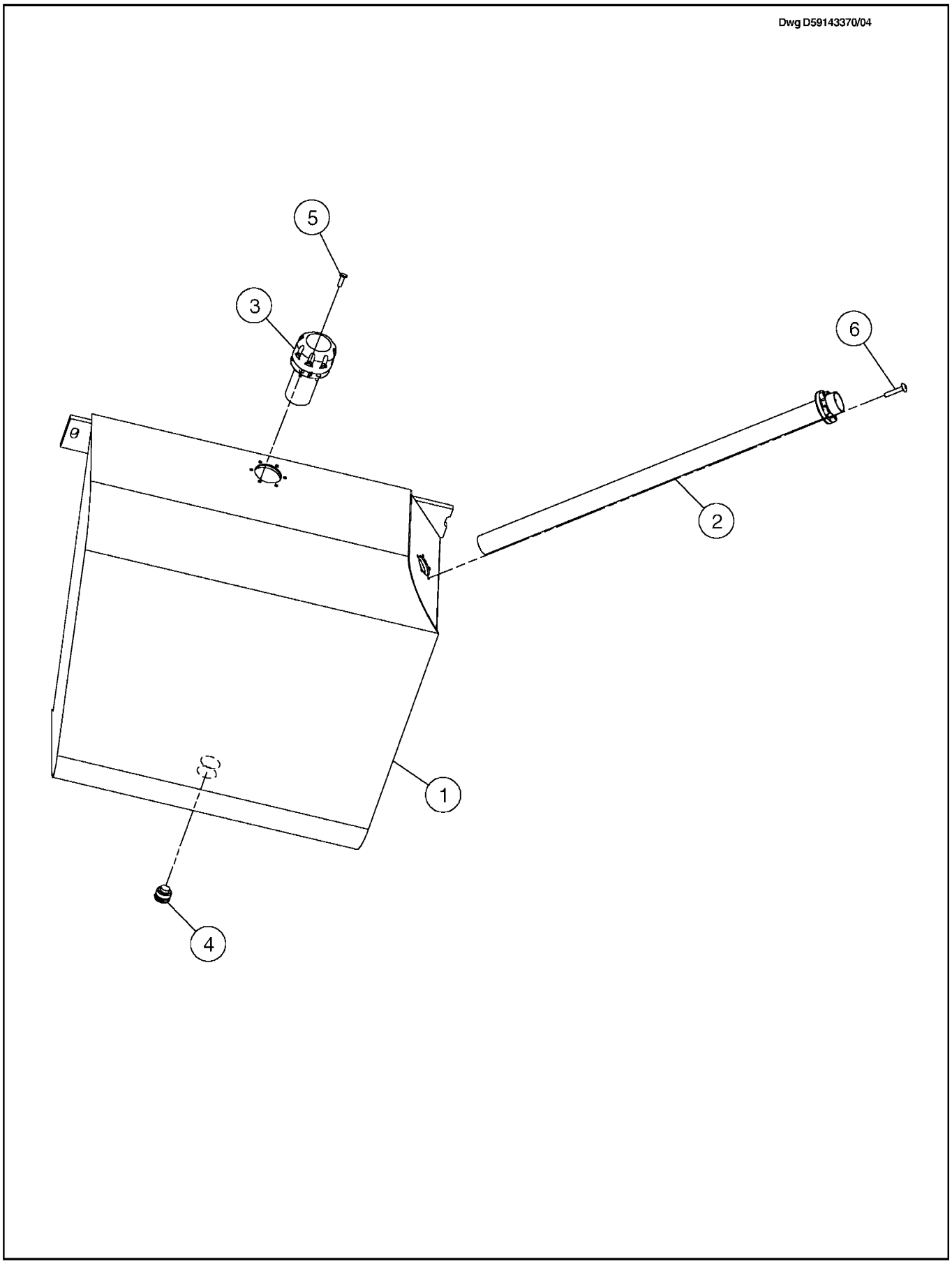
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FUEL TANK INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59137679		
1	**NSVA**	**Fuel Tank Assembly**	**1**	**See Section - A.5**
2	95922258	Flatwasher	2	1/2
4	59181479	Tank Mounting Bracket Assembly	2	
6	96712237	Flatwasher	6	
7	96703111	HHCS	6	M12 x 35

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FUEL TANK ASSEMBLY



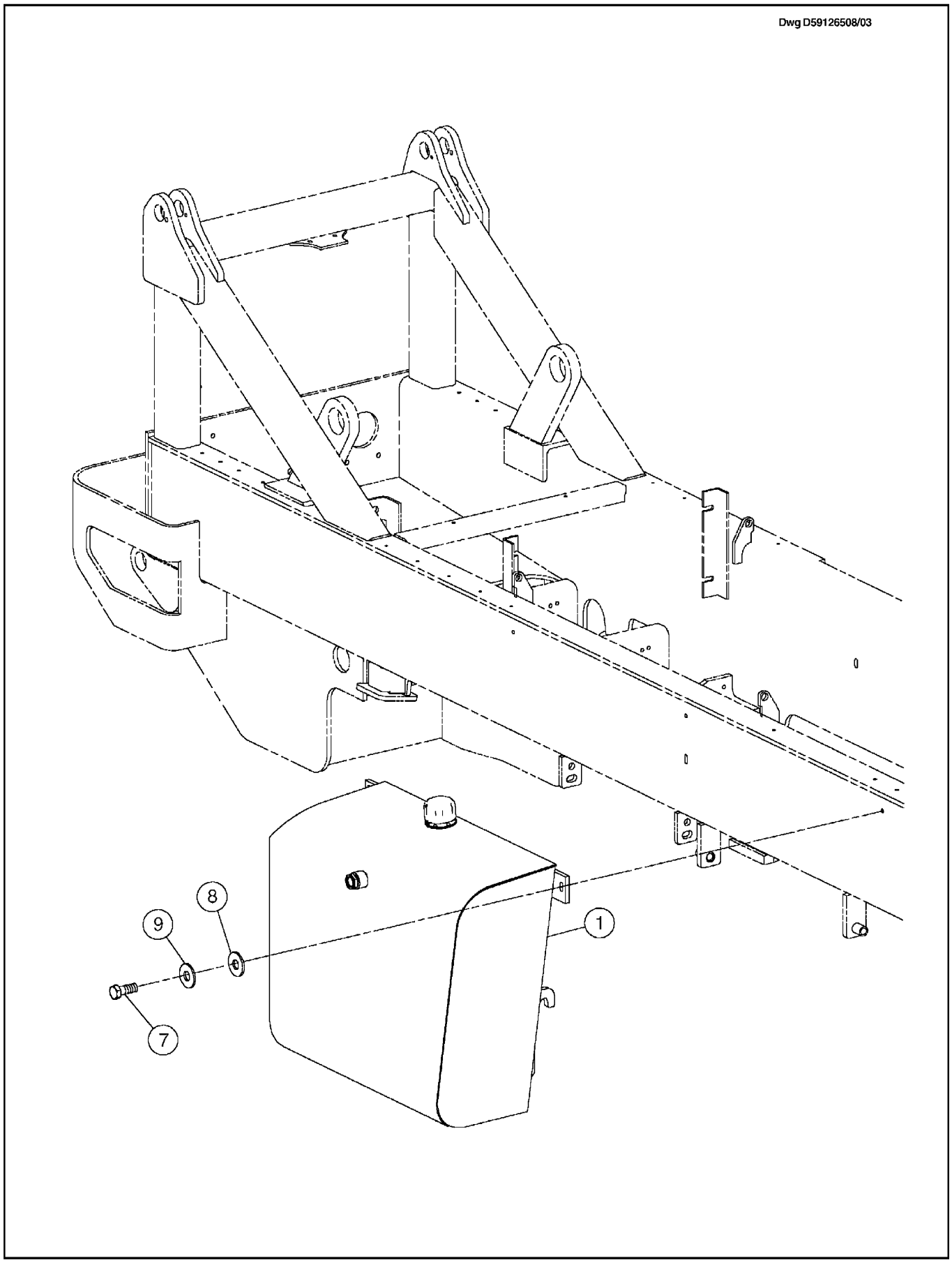
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FUEL TANK ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59175240		
1	59181685	Fuel Tank	1	
2	59129528	Fuel Level Sender	1	
3	59182428	Fuel Filler/Breather Cap	1	
4	59144428	Magnetic Plug	1	
5	95972295	BHCS	6	#10-32 UNF x 0.5
6	95992590	BHCS	5	#10-32 UNF x 1.0

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HYDRAULIC TANK INSTALLATION

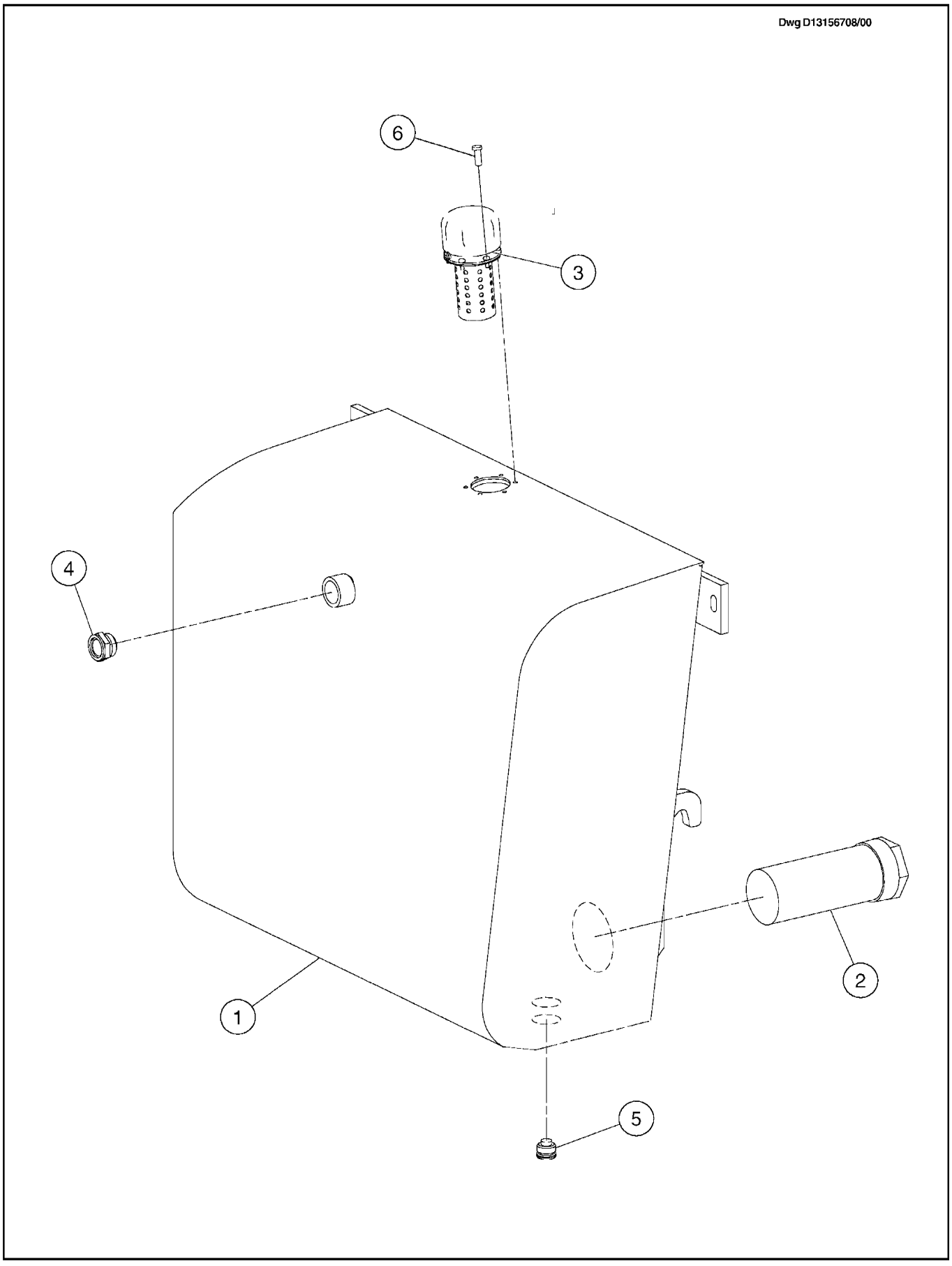


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59126508		
1	**NSVA**	**Hydraulic Tank Assembly**	**1**	**See Section - A.7**
7	96703111	HHCS	1	M12 x 35
8	95922258	Flatwasher	1	1/2
9	96712237	Flatwasher	1	

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HYDRAULIC TANK ASSEMBLY



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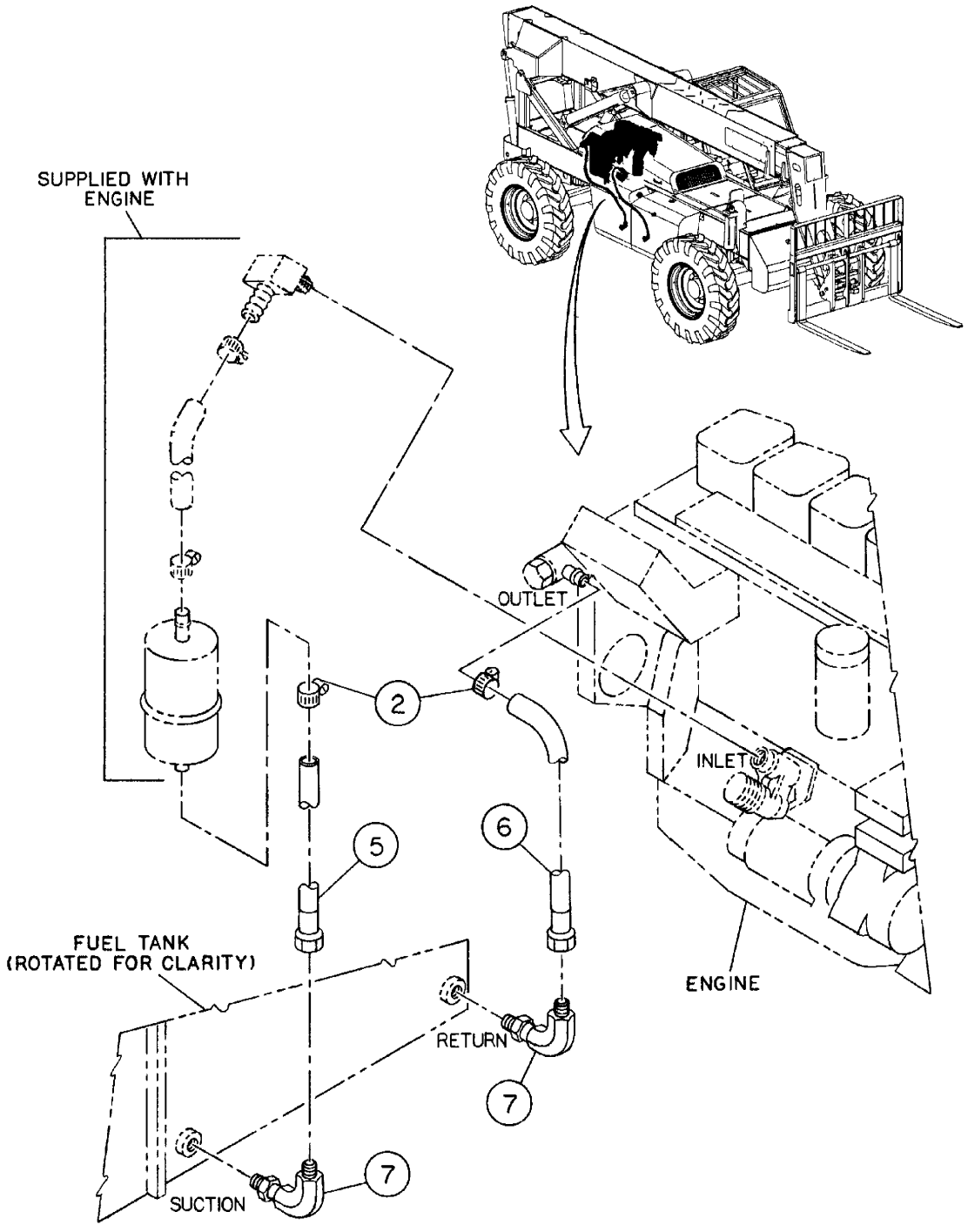
HYDRAULIC TANK ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13156708		
1	13156716	Hydraulic Tank	1	
2	59180307	Hydraulic Tank Strainer	1	
3	59182410	Hydraulic Tank Filler/Breather Cap	1	
4	58849829	Sight Gauge	1	
5	59144428	Magnetic Plug	1	
6	95972295	BHCS	6	#10-32UNF x 0.5

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FUEL LINES INSTALLATION

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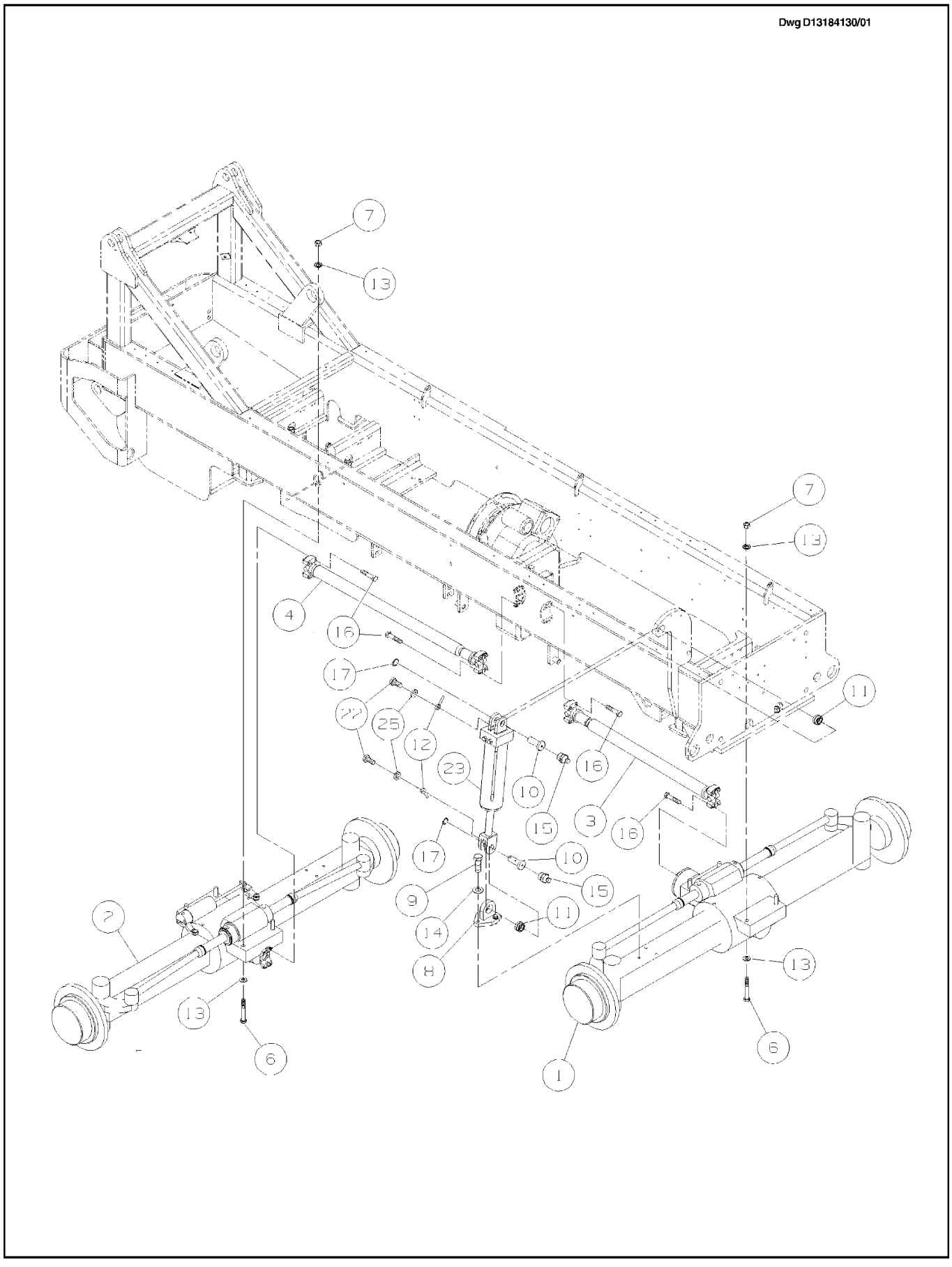
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FUEL LINES INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59147835		
2	59363259	Hose Clamp	2	
5	59138925	Hose Assembly	1	34.0"
6	59138933	Hose Assembly	1	37.0"
7	95356853	Adapter	2	

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AXLE INSTALLATION

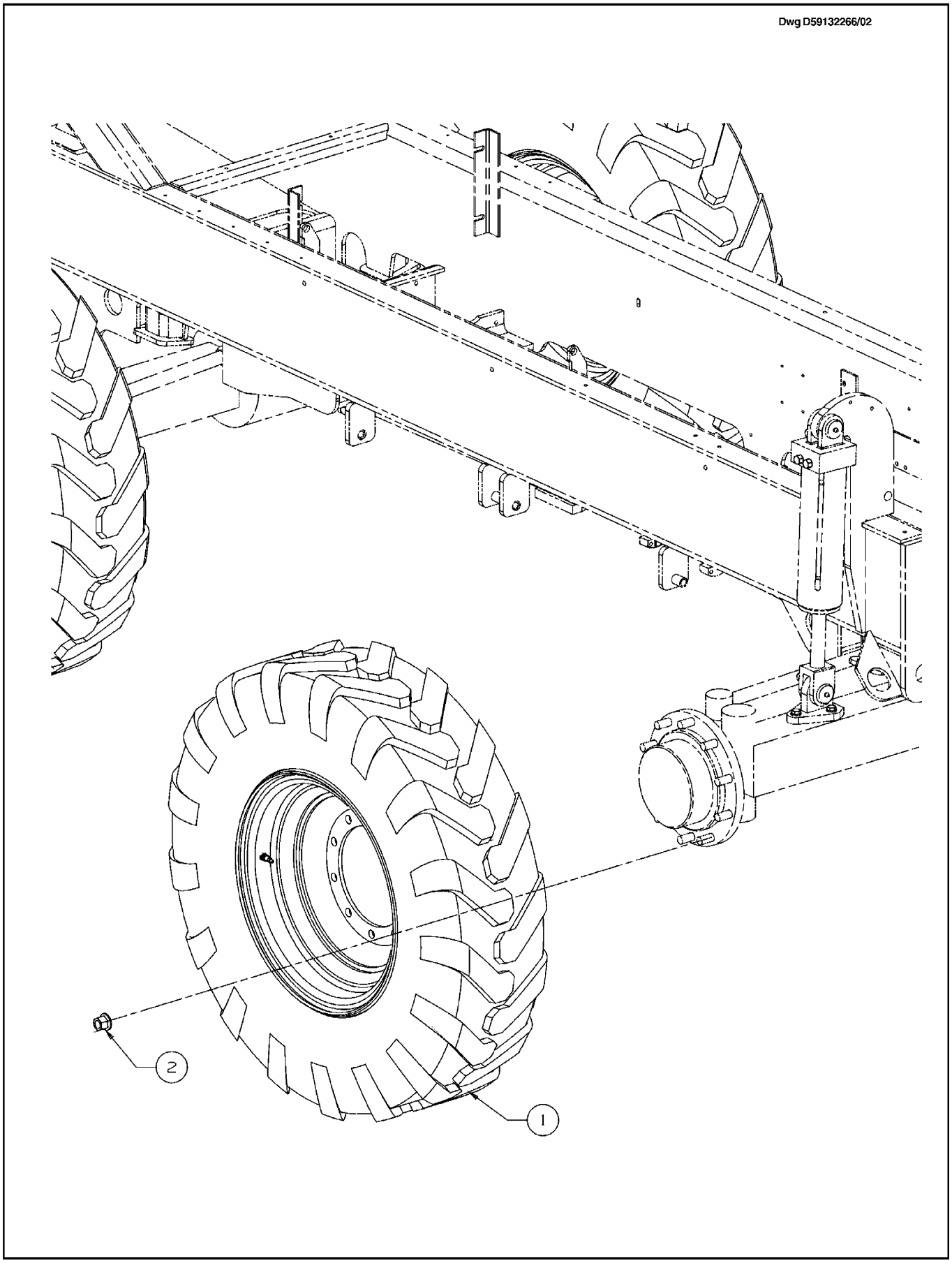


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59126482		
1	**59251637**	**Front Axle**	**1**	**See Breakdown - I.1**
2	**59251645**	**Rear Axle**	**1**	**See Breakdown - I.2**
3	54478219	Front Drive Shaft Assembly	1	
-	59144337	-Cross and Bearing	2	
4	54479878	Rear Drive Shaft Assembly	1	
-	59144337	-Cross and Bearing	2	
6	96705678	HHCS	8	M20-2.5 x 130
7	96703665	Hex Nut	8	M20-2.5
8	59212118	Front Tilt Pad	1	
9	96705090	HHCS	3	M14 x 40
10	59272450	Pivot Pin	2	
11	50268127	Bearing	2	
12	59455154	Anchor	2	
13	96701560	Hardened Flatwasher	16	M20
14	96738604	Hardened Flatwasher	3	M14
15	95201547	Grease Fitting	2	
16	95920815	HHCS	16	3/8-24 x 1.75
17	95992608	External Retaining Ring	2	
22	96702311	HHCS	2	M12 x 30
23	13224969	Frame Level Cylinder	1	
25	96738596	Hardened Flatwasher	2	M12

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WHEEL AND TIRE ASSEMBLY



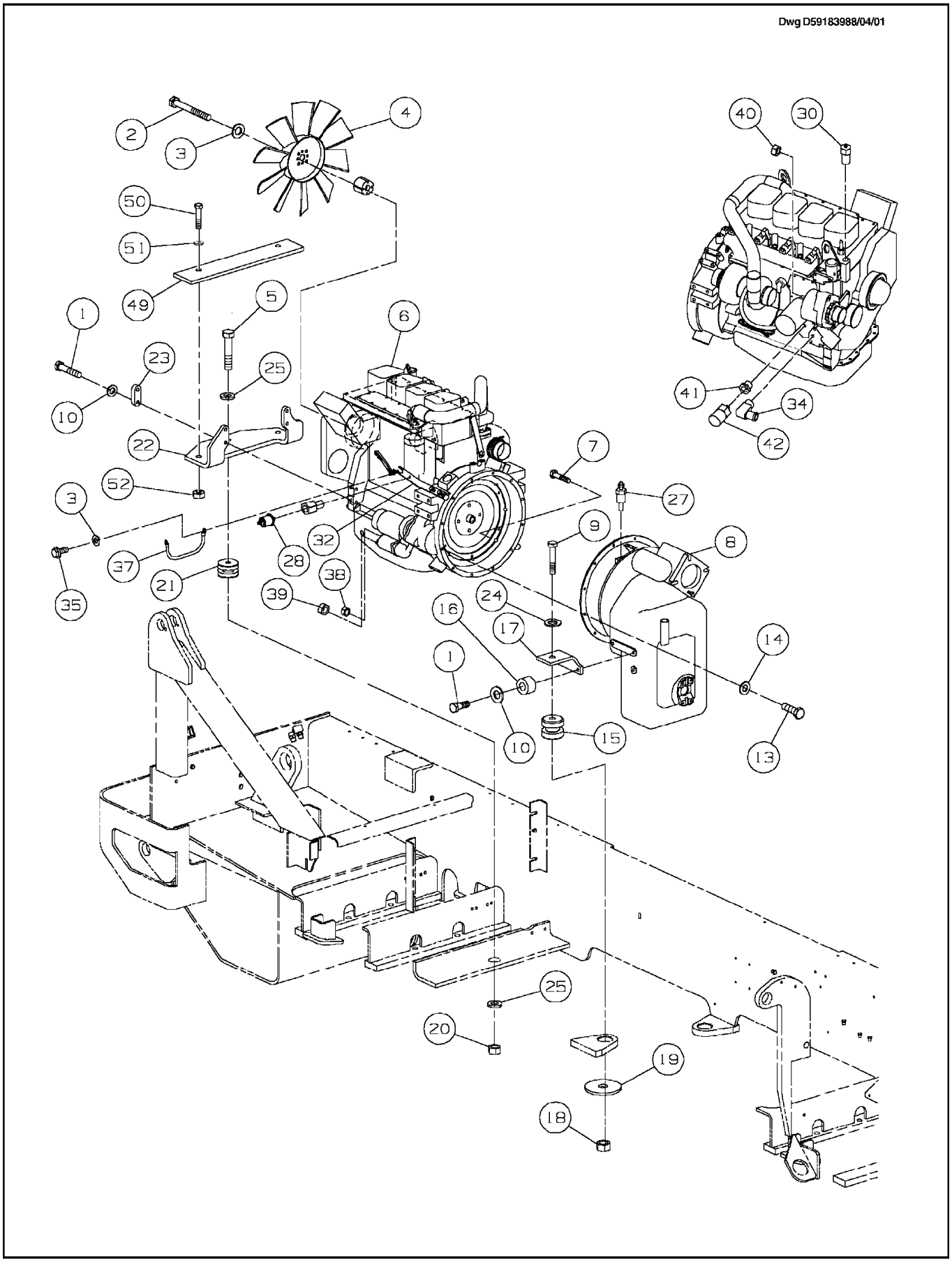
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WHEEL AND TIRE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13162714		
1	59175083	Wheel and Tire Assembly	4	Road Grader
-	59182097	-Rim	1	24.0 x 9
-	59158345	-Tire	1	13-24, 12 Ply
-	59524447	-Air Valve	1	
-	59175109	Foam Wheel and Tire Assembly (Optional)	4	Foam Road Grader
-	59175083	-Wheel and Tire Assembly	1	Road Grader
-	54503016	-Foam Filled Tire	1	
-	59181222	Wheel and Tire Assembly (Optional)	4	Road Grader
-	59181172	-Rim	1	24.0 x 9
-	59169656	-Tire	1	14-24 12 Ply
-	59524447	-Air Valve	1	
-	13155734	Foam Wheel and Tire Assembly (Optional)	4	Foam Road Grader
-	59181222	-Wheel and Tire Assembly	1	Road Grader
-	54503016	-Foam Filled Tire	1	
-	59175141	Wheel and Tire Assembly (Optional)	4	Yokohama
-	59182097	-Rim	1	24.0 x 9
-	59158386	-Tire	1	13-24, 16 Ply
-	59524447	-Air Valve	1	
-	59199935	Foam Wheel and Tire Assembly (Optional)	4	Foam Yokohama
-	59175141	-Wheel and Tire Assembly	1	Yokohama
-	54503016	-Foam Filled Tire	1	
-	54502620	Wheel and Tire Assembly (Optional)	4	LSW
-	59229500	-Rim	1	33.5 x 10
-	54502612	-Tire	1	13-33.5, 12 Ply
-	54502638	Foam Wheel and Tire Assembly (Optional)	4	LSW w/Foam
-	54502620	-Wheel and Tire Assembly (Optional)	4	LSW
-	54503016	-Foam Filled Tire	1	
-	59291112	Wheel and Tire Assembly (Optional)	4	Ty Cushion
-	59285197	-Tire	1	12-24 Solid Tire
-	13252697	Wheel and Tire Assembly (Optional)	4	LSW
-	13252713	-Rim	1	33.5 x 12.5
-	13252721	-Tire	1	14.9-33.5, 12 Ply
-	59524447	-Air Valve	1	
-	13252705	Foam Wheel and Tire Assembly (Optional)	4	LSW w/Foam
-	13252697	-Wheel and Tire Assembly	1	LSW
-	54503016	-Foam Filled Tire	1	
2	59163758	Wheel Nut	40	M22-1.5mm

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ENGINE/TRANSMISSION INSTALLATION - SHEET 1 OF 2



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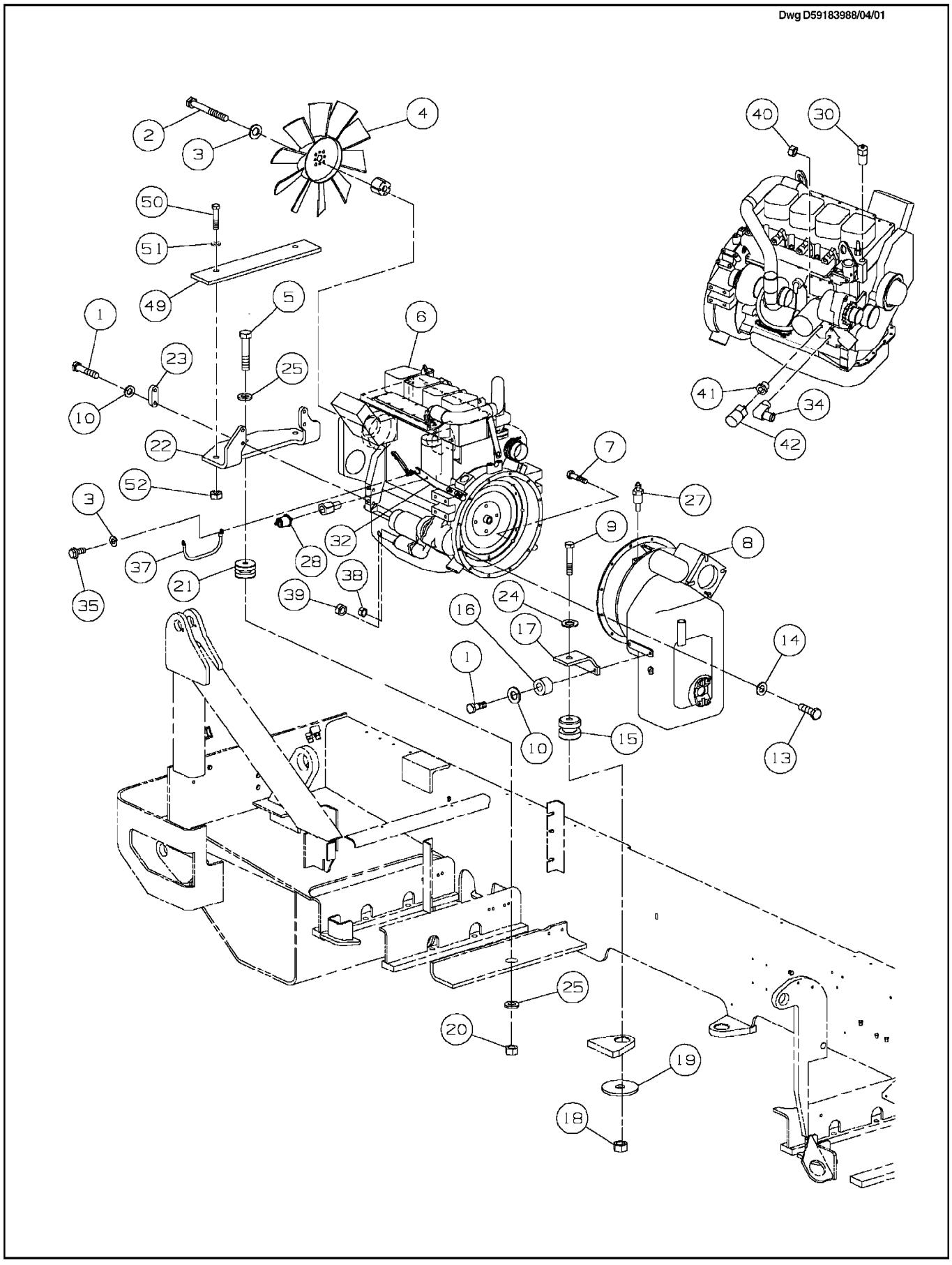
ENGINE/TRANSMISSION INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13161930		
1	96714910	HHCS	8	M12-1.75 x 60
2	96714688	HHCS	4	M8-1.25 x 70
3	96741038	Flatwasher	4	M8
4	59023747	Sucker Fan	1	19.0"
5	95920096	HHCS	1	3/4-10 x 3.75
6	59235192	Engine Assembly	1	
-	59728170	-Engine Oil Filter	1	See Sections - M.1 & M.2
-	58827932	-Inline Fuel Filter	1	See Sections - M.1 & M.2
-	59477570	-Fuel/Water Separator Filter	1	See Sections - M.1 & M.2
-	59106435	-Alternator	1	
-	54617014	-Starting Motor	1	
-	58887506	-Fan Belt	1	
7	95920815	HHCS	8	3/8-24 x 1.75
8	54615711	Transmission	1	
9	95972451	HHCS	2	7/8-9 x 4.75
10	59539569	Hardened Washer	8	
13	96702410	HHCS	11	M10 x 35
14	96741046	Flatwasher	11	M10
15	59101451	Transmission Mounting Bushing	2	
16	13161849	Spacer Bolt	4	
17	13161856	Transmission Mounting Bracket	2	
18	59327908	Hex Nut	2	7/8-9
19	59115220	Snubbing Washer	2	
20	59327890	Hex Nut	1	3/4-10
21	59413757	Shock Mount	1	
22	13155361	Engine Mounting Plate	1	
23	59176503	Engine Spacer	2	
24	95922290	Flatwasher	2	7/8
25	59544213	Washer	2	
27	59302554	Transmission Temperature Sender	1	
28	58878000	Oil Pressure Sender	1	
30	59816322	Engine Coolant Temperature Sender	1	
32	**NSVA**	**Throttle Assembly**	**1**	**See Section - C.2**
34	58962226	Elbow, Male	1	
35	96702659	HHCS	1	M8-1.25 x 25
37	59113829	Ground Strap	1	
38	96705132	Hex Nut	1	M5-0.08
39	96704812	Hex Nut	1	
40	96701370	Nut	1	M8-1.25
41	95038030	Bushing	1	

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ENGINE/TRANSMISSION INSTALLATION - SHEET 1 OF 2 (CONTINUED)

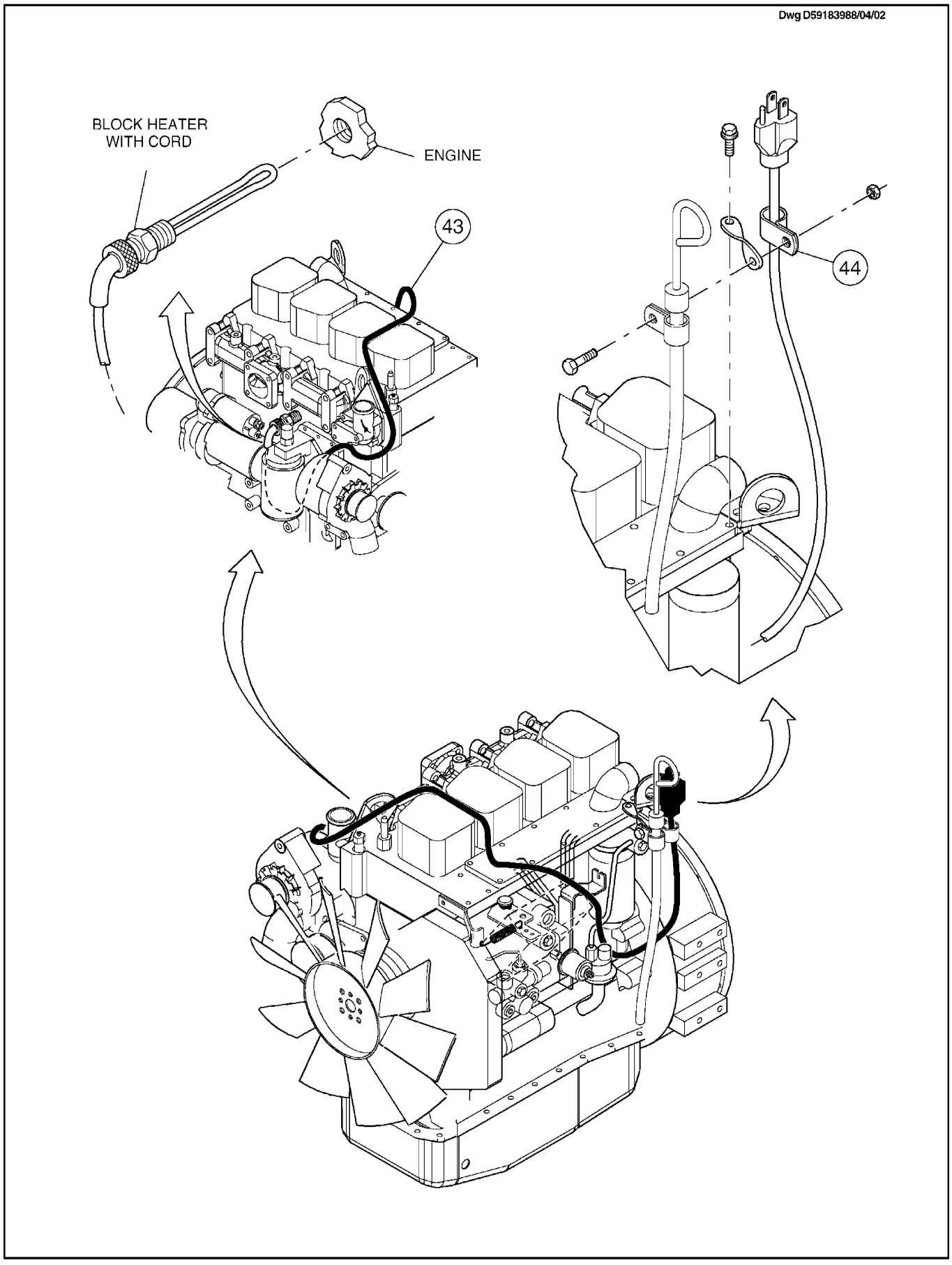


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
42	59124578	Engine Oil Pressure Switch	1	
49	59291179	Engine Mount Baffle	1	
50	50264860	Washer	2	
51	96702402	HHCS	2	M8-1.25 x 50
52	96704606	Locknut	2	M8

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ENGINE/TRANSMISSION INSTALLATION - SHEET 2 OF 2

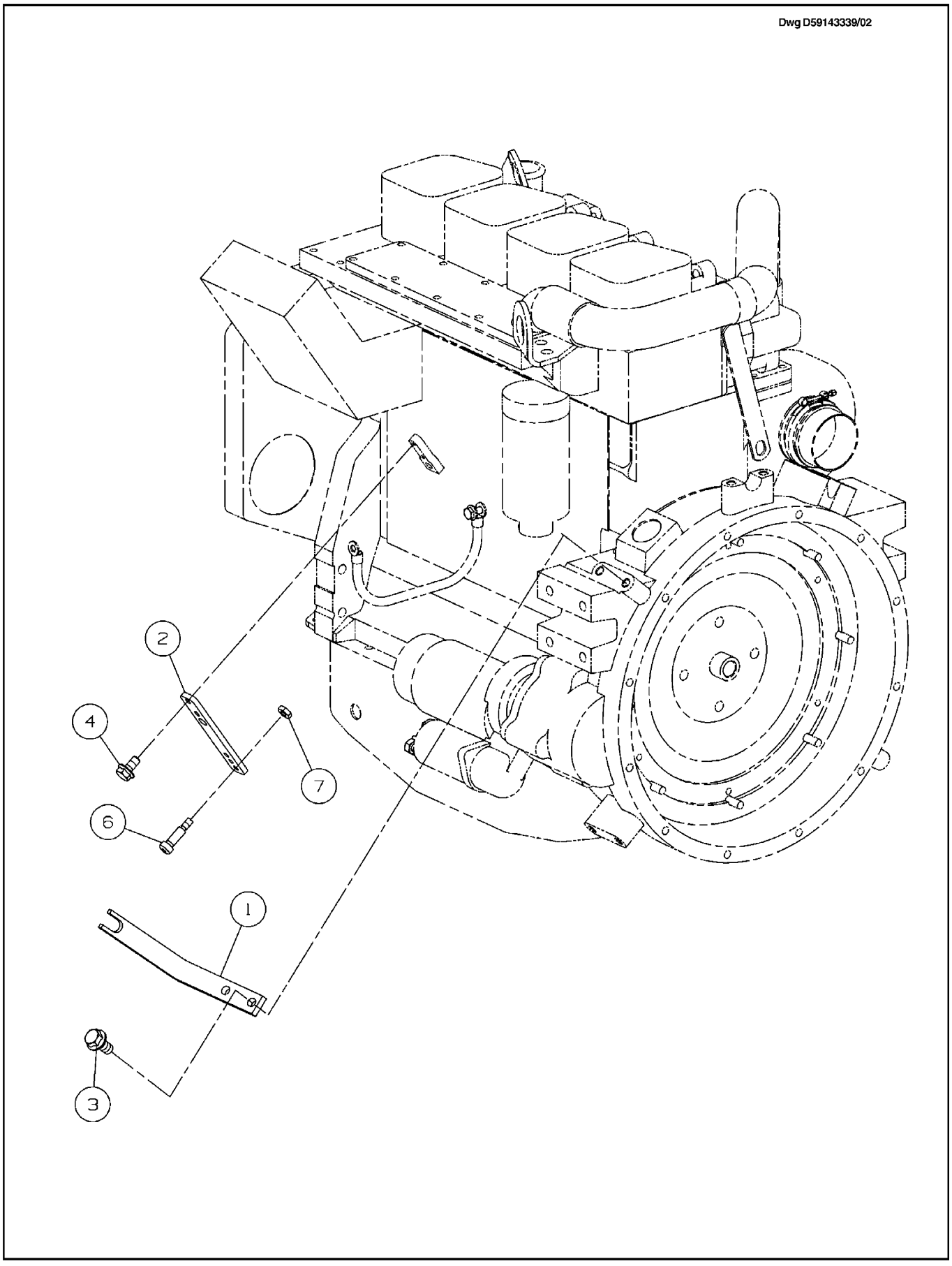


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
43	95373973	Wire Tie	A/R	
44	95301867	Clamp	1	

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THROTTLE ASSEMBLY



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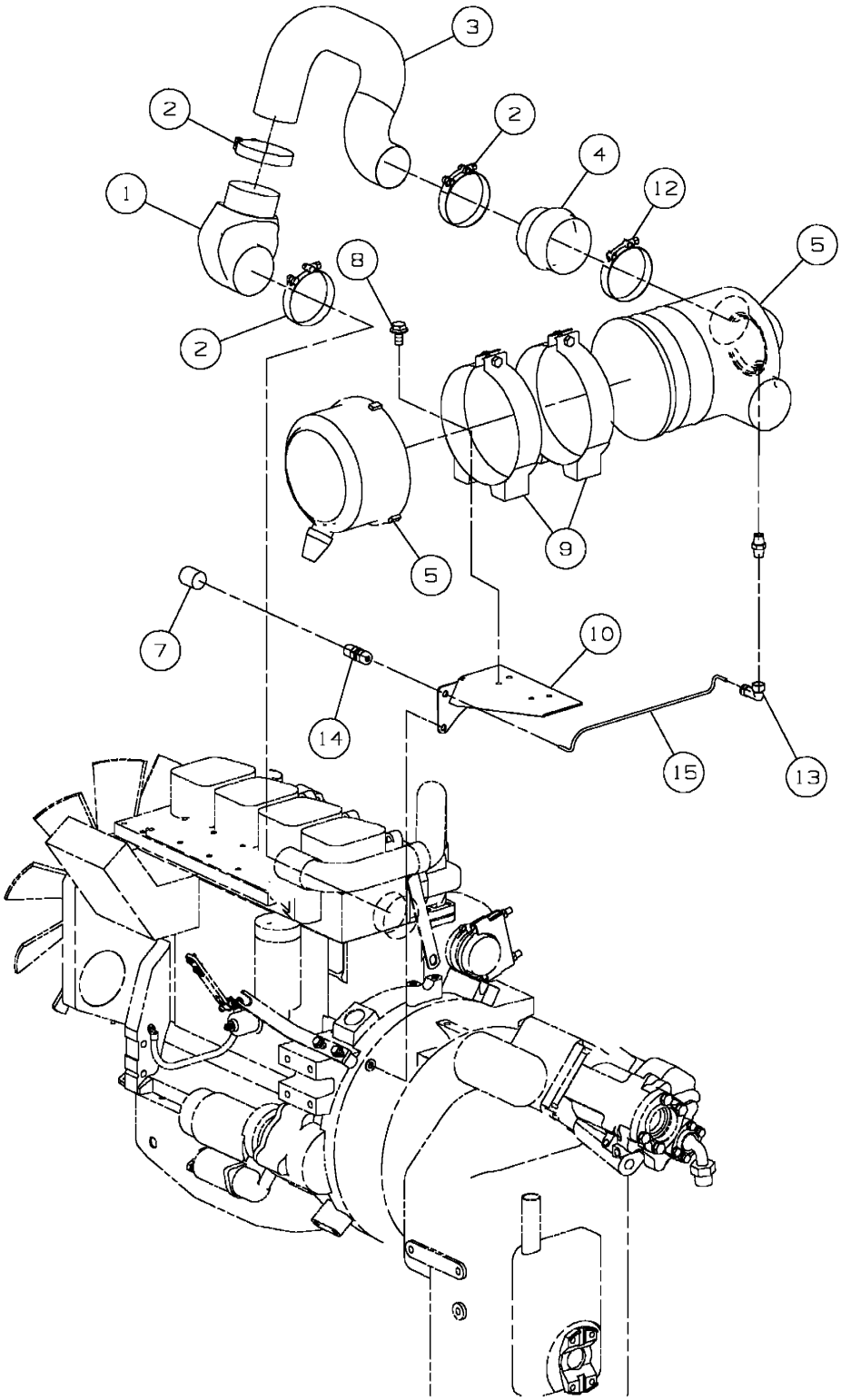
THROTTLE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59143339		
1	59115717	Throttle Cable Bracket	1	
2	59115725	Throttle Lever	1	
3	59434548	Lockbolt	2	3/8-16 x 0.75
4	96705058	Lockscrew	2	M6-1 x 12mm
6	95860052	Screw	1	
7	95943346	Nylon Nut	1	#10-24

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AIR CLEANER INSTALLATION

Dwg D59126599/04



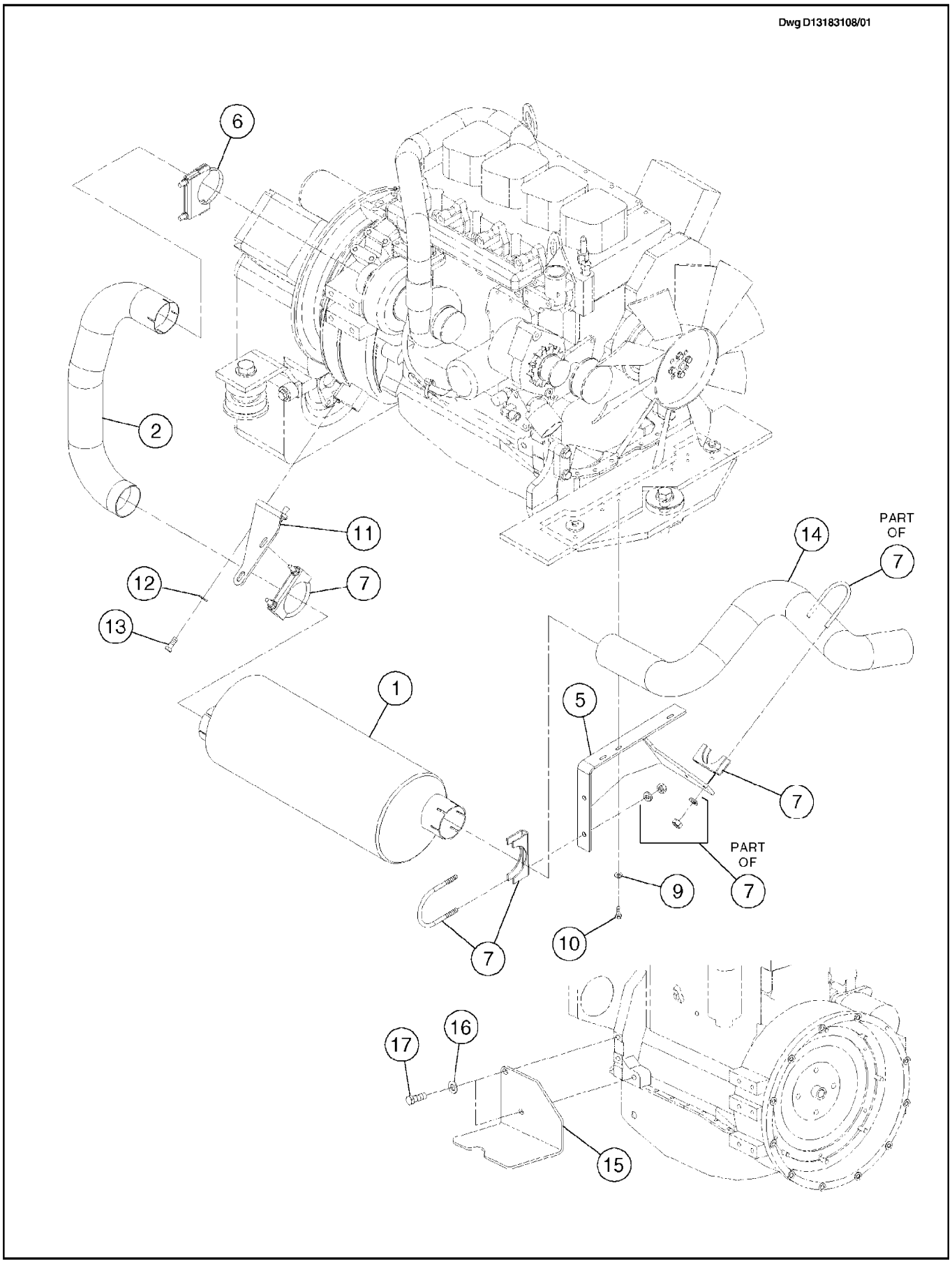
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AIR CLEANER INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59126599		
1	59896118	Elbow	1	
2	54680087	T-bolt Spring Clamp	3	3.50
3	59115386	Air Cleaner Pipe	1	
4	59456889	Reducer Hump	1	
5	54524418	Air Cleaner	1	9.0"
-	54484092	-Air Cleaner Primary Filter Element	1	
-	54493259	-Air Cleaner Secondary Filter Element	1	
7	50266907	Air Filter Service Indicator	1	
8	96712153	Hex Fillister Head Screw	4	M8-1.25 x 25
9	54524434	Air Filter Bracket	2	
10	59270587	Air Filter Mounting Bracket	1	
12	54680103	T-bolt Spring Clamp	1	4.0
13	59311670	Elbow, 90°	1	
14	59311621	Connector	1	
15	59312801	Tube	1	

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EXHAUST INSTALLATION



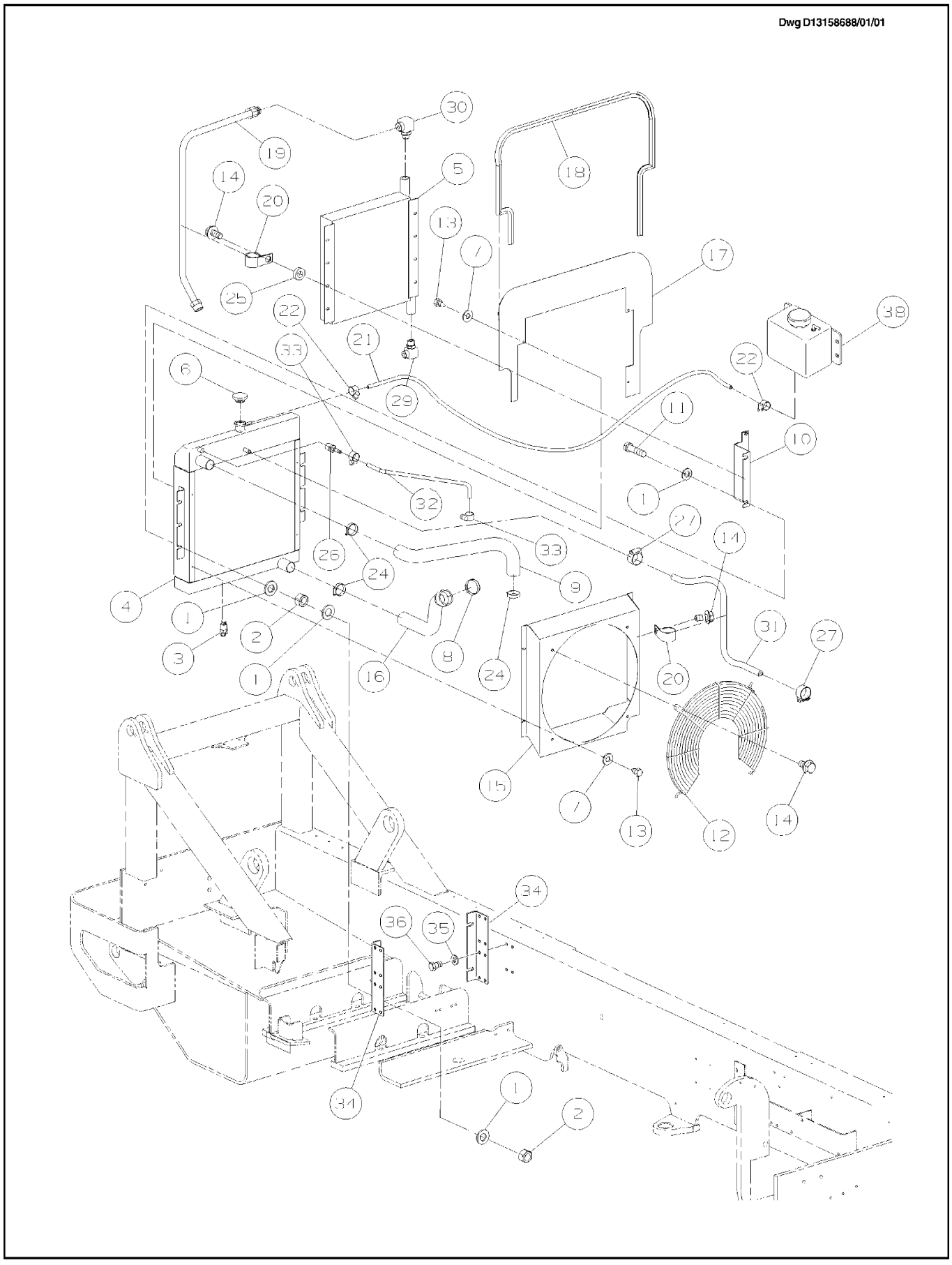
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EXHAUST INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13179759		
1	58933623	Muffler	1	
2	13224803	Exhaust Pipe	1	
5	13195920	Pipe/Muffler Support	1	
6	59137851	Flattened U-Bolt Clamp	1	3.00
7	59179218	Exhaust Clamp	3	3.00
9	59731380	Washer	3	
10	96702287	HHCS	3	M10 x 25
11	13179775	Muffler Mounting Plate	1	
12	95922225	Flatwasher	2	5/16 x 0.083
13	95919221	HHCS	2	3/8-16 x 1.0
14	13195912	Tail Pipe	1	
15	13224951	Fuel Side Baffle	1	
16	96701545	Hardened Flatwasher	2	M12
17	96701495	HHCS	2	M12 x 25

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RADIATOR/OIL COOLER INSTALLATION - SHEET 1 OF 2



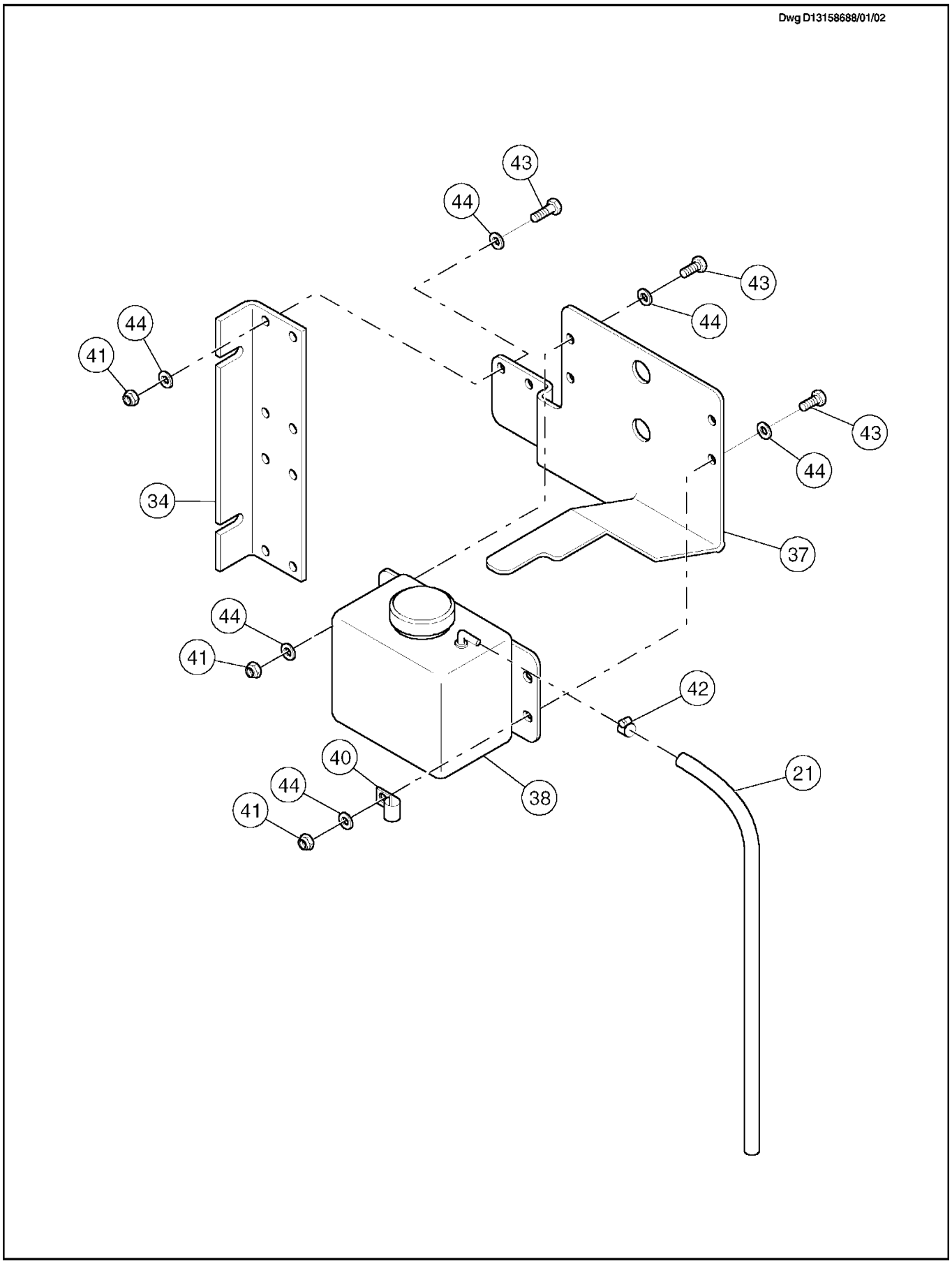
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RADIATOR/OIL COOLER INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13158688		
1	96738596	Hardened Flatwasher	16	M12
2	96704291	Hex Nut	8	M12
3	95250692	Drain	1	1/4 NPT
4	59137182	Radiator	1	
5	59115105	Oil Cooler	1	
6	59129171	Radiator Cap	1	
7	95922324	Flatwasher	8	1/4
8	95286266	Hose Clamp	1	
9	59113274	Upper Radiator Hose	1	
10	59001842	Oil Cooler Mounting Bracket	2	
11	96701966	HHCS	4	M12 x 45
12	59137570	Fan Guard	1	
13	59456194	Screw	8	
14	96704218	Lockbolt	9	M8 x 16
15	59291120	Shroud Assembly	1	
16	59113282	Lower Radiator Hose	1	
17	59270520	Airdam	1	
18	59115584	Seal	1	
19	59113456	Oil Cooler Tube Assembly	1	
20	95301867	Clamp	2	
21	59137216	Hose Assembly	2	20.0"
22	50274299	Hose Clamp	2	
24	95302683	Hose Clamp	3	
25	59565028	Washer	1	
26	59331934	Adapter	1	
27	95671285	Hose Clamp	2	
29	59922971	Fitting	1	
30	59922997	Adapter, 90°	1	
31	59138941	Hose Assembly	1	30.0"
32	58785957	Hose Assembly	1	19.0"
32	59318204	Hose Assembly	1	20.0"
33	59363259	Hose Clamp	2	
34	59295113	Radiator Mounting Angle	2	
35	96741046	Flatwasher	8	M10
36	96702279	HHCS	8	M10 x 20
38	54467329	Waterbottle	1	
-	59154807	-Waterbottle Cap w/Tether	1	

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RADIATOR/OIL COOLER INSTALLATION - SHEET 2 OF 2



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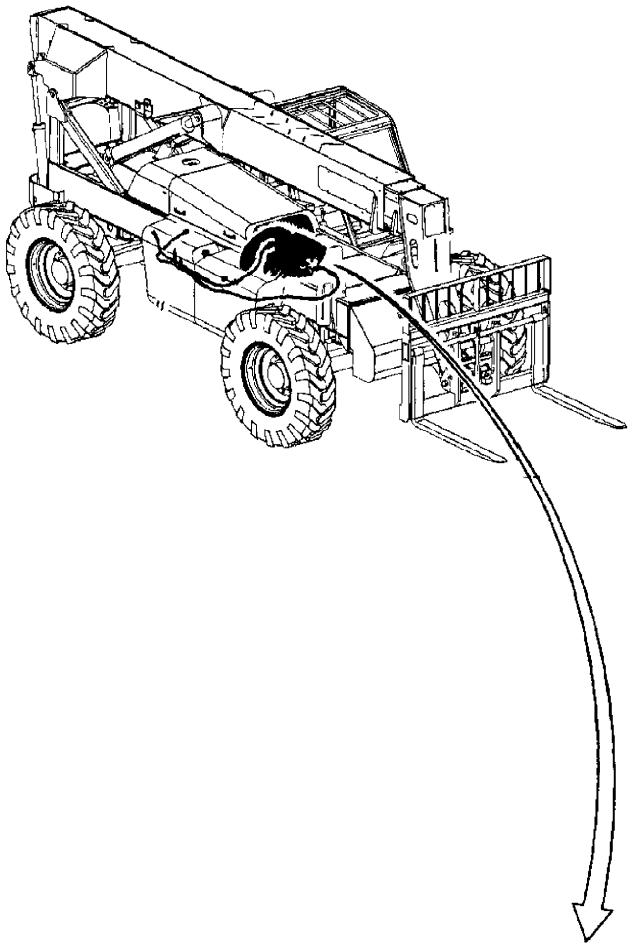
RADIATOR/OIL COOLER INSTALLATION - SHEET 2 OF 2

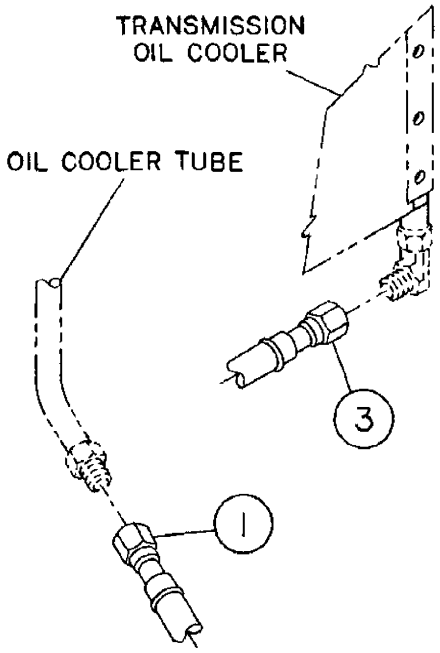
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
21	59137216	Hose Assembly	2	20.0"
34	59295113	Radiator Mounting Angle	2	
37	59276717	Waterbottle Bracket	1	
38	54467329	Waterbottle	1	
-	59154807	-Waterbottle Cap w/Tether	1	
40	59103598	Clamp	1	
41	96704606	Locknut	6	M8
42	50274299	Hose Clamp	1	
43	96702659	HHCS	6	M8-1.25 x 25
44	96741038	Flatwasher	12	M8

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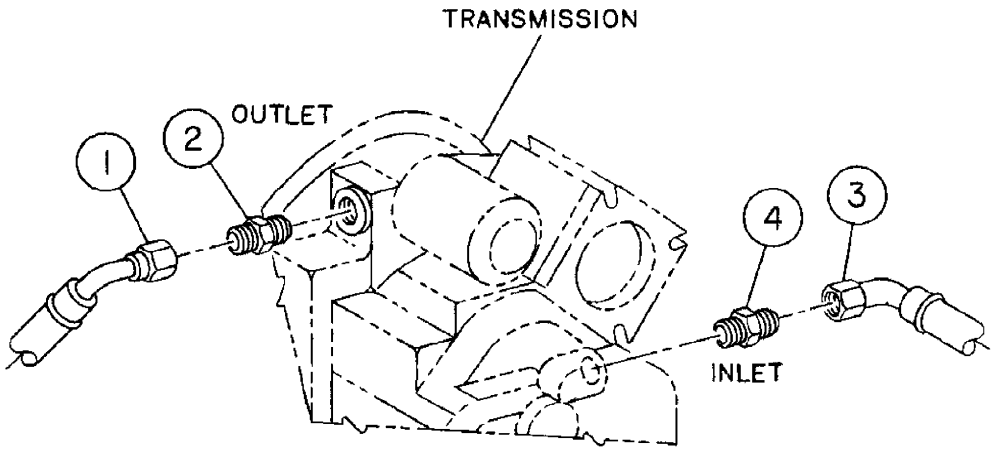
TRANSMISSION COOLING LINES INSTALLATION

Dwg D59150300/02





TURBO
INSTALLATION



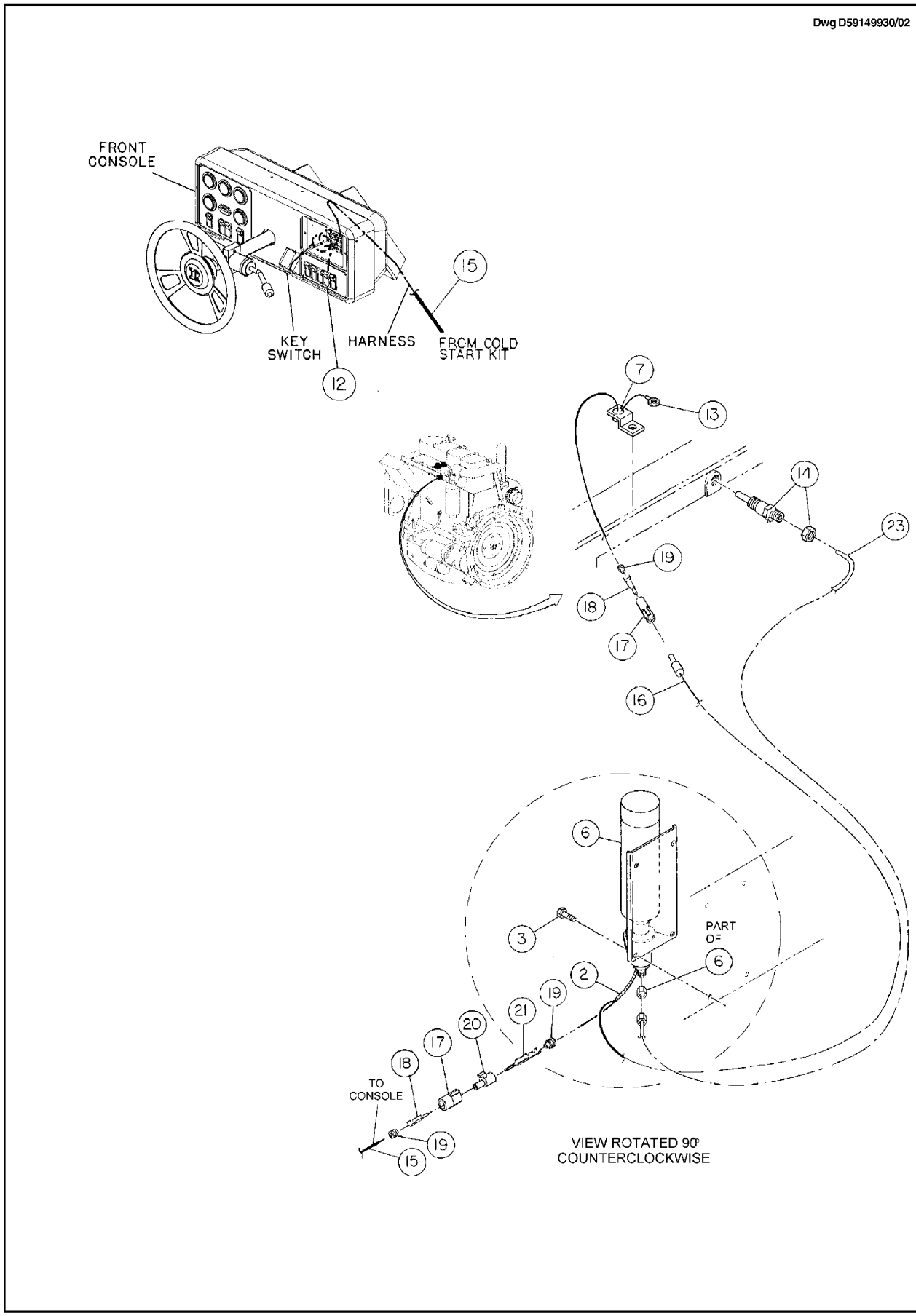
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TRANSMISSION COOLING LINES INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59150300		
1	59136531	Hose Assembly	1	55.0"
2	59922583	Adapter, Straight	1	
3	59136499	Hose Assembly	1	110.0"
4	59922591	Adapter	1	

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ETHER START INSTALLATION - OPTIONAL



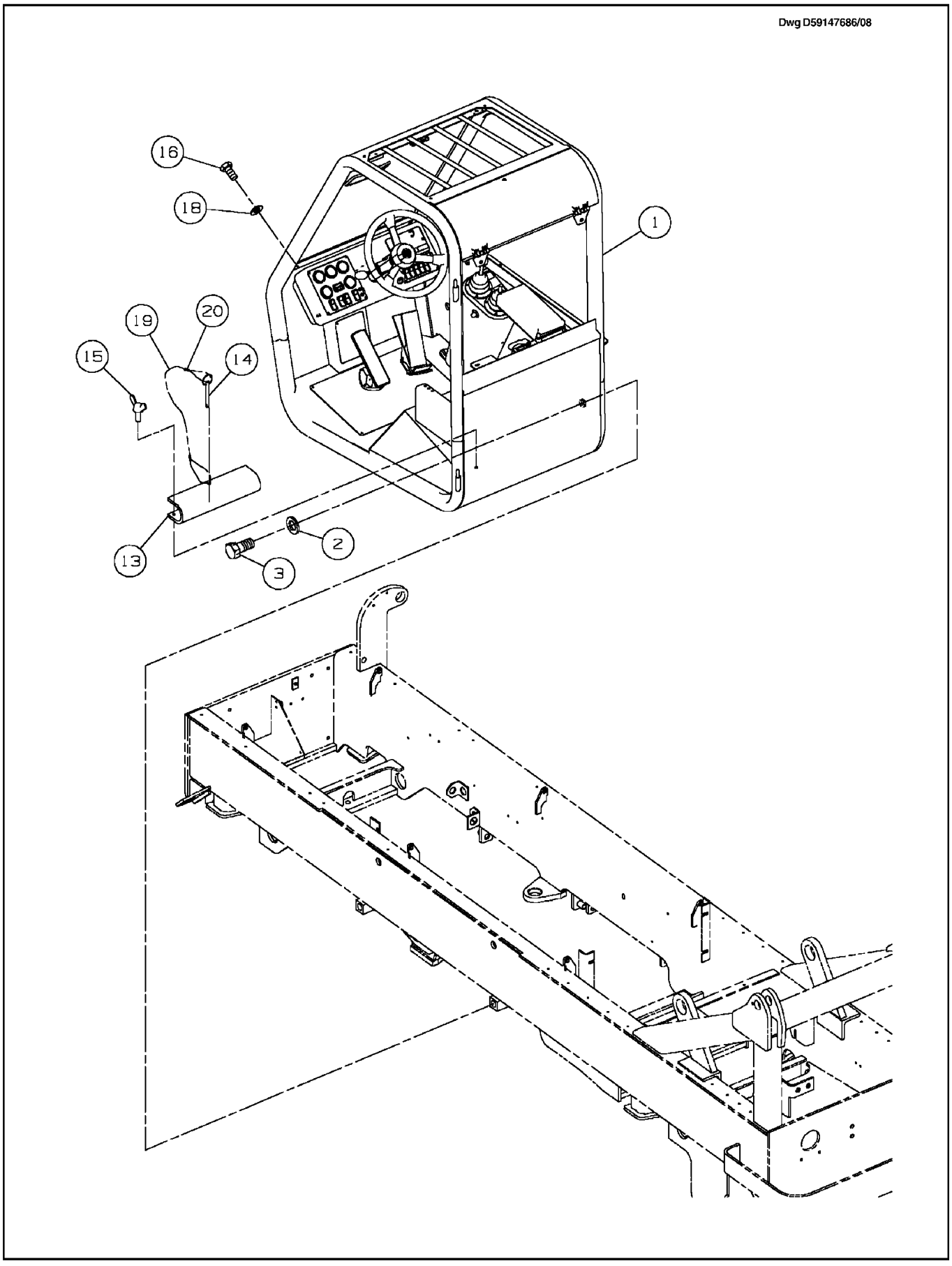
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ETHER START INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59069534		
2	59398925	Starting Kit	1	
3	96704218	Lockbolt	4	M8 x 16
6	59866970	Ether Cylinder	1	
7	59352476	Thermo Switch	1	
12	59114165	Cold Start (Ether) Switch	1	
13	58754433	Ring Terminal	1	
14	59352542	Atomizer	1	
15	59149039	Ether Harness	1	
16	59137364	Ether/Thermo Harness	1	
17	58753104	Waterproof Connector	2	
18	59854828	Male Pin	2	
19	59854877	Cable Seal	3	
20	58753112	Waterproof Connector	1	
21	58797499	Waterproof Terminal	1	
23	59137471	Nylon Tube	1	1/8 x 84

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CAB INSTALLATION



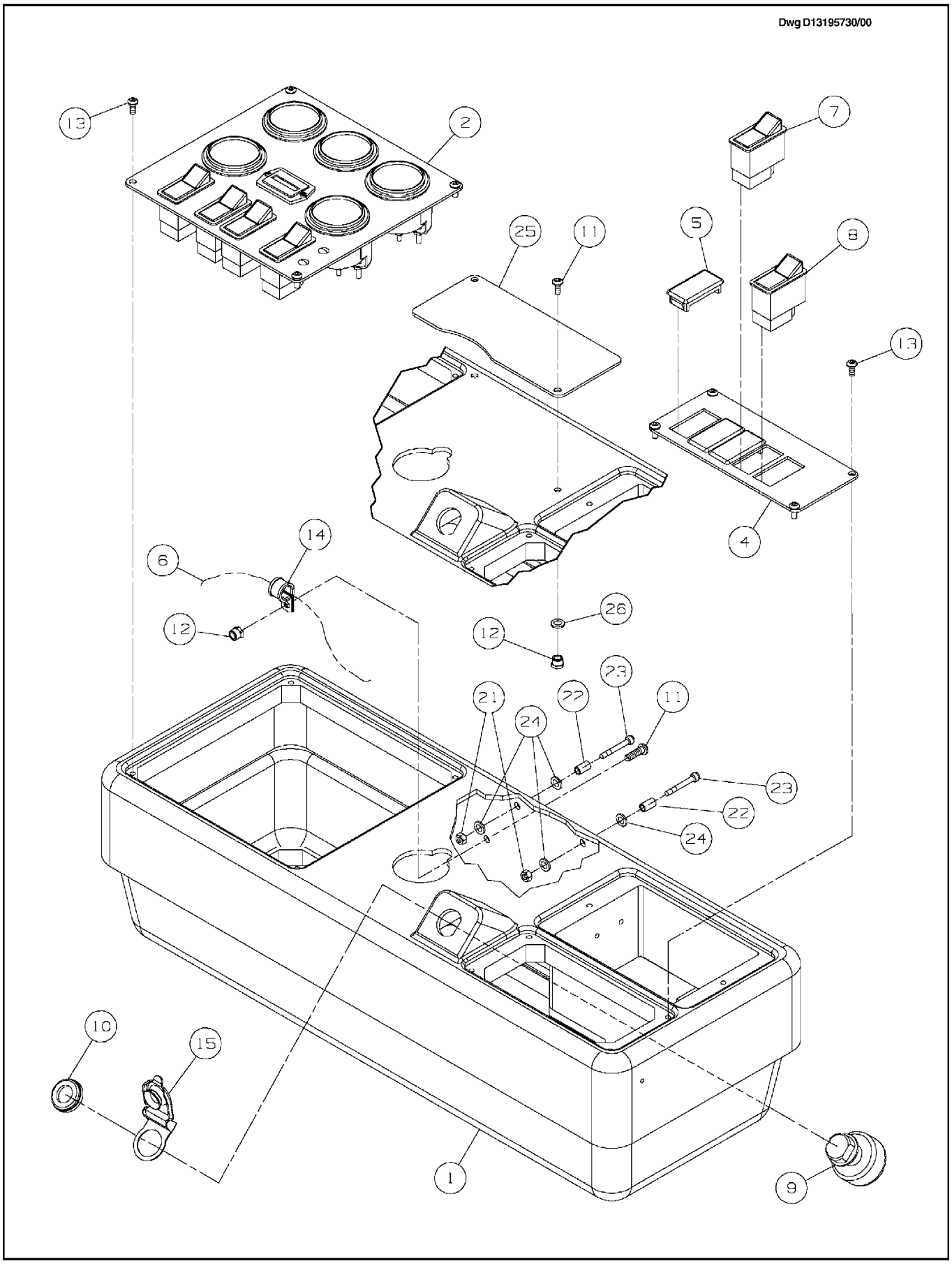
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CAB INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59290668 & 59290684		
1	**59290676**	**Open Cab Assembly**	**1**	**See Breakdown - I.3**
-	**59290692**	**Enclosed Cab Assembly (Optional)**	**1**	**See Breakdown - I.4**
2	54441506	Washer	4	
3	95920435	HHCS	4	1 1/4-7 x 2.5
13	59137828	Boom Stop Tube	1	
14	59135145	Quick Release Pin	1	
15	59136226	Wingscrew	2	M10 x 25
16	96702816	HHCS	4	M8 x 16
18	96741038	Flatwasher	4	M8
19	59436741	Cable	1	
20	59436758	Ferrule	2	

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CONSOLE ASSEMBLY



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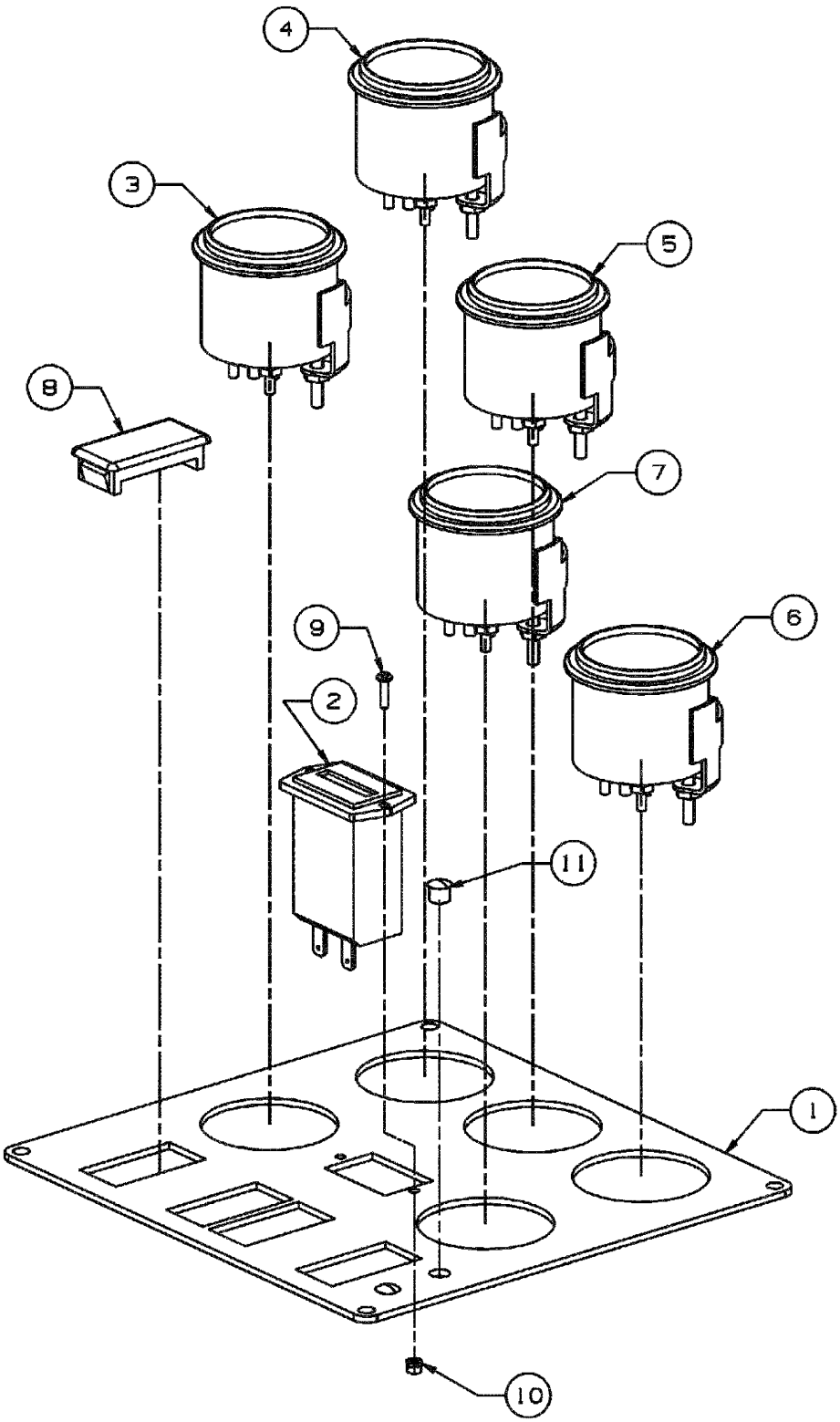
CONSOLE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13224928		
1	13219670	Console	1	
2	**NSVA**	**Gauge Panel Assembly**	**1**	**See Section - D.3**
4	59137315	Control Plate	1	
5	58835398	Blank Plug	3	
6	13224902	Console Harness	1	
7	59114108	Parking Brake Switch	1	
8	59114116	Steering Mode Switch	1	
9	59126946	Ignition Switch	1	
-	58917261	-Ignition Key		
10	58924333	Switch Nut	1	
11	59148684	BHCS	3	
12	96702873	Nylon Nut	4	
13	59148569	HHCS	8	M5-0.8 x 12
14	59397489	Clamp	2	
15	58892902	Ignition Switch Cover	1	
21	96703756	Hex Nut	2	M4
22	59158931	Spacer	2	
23	96728696	SHCS	2	
24	96705165	Flatwasher	4	
25	13168109	Decal Plate	1	
26	96721121	Washer	2	M6

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GAUGE PANEL ASSEMBLY

Dwg D59275404/00



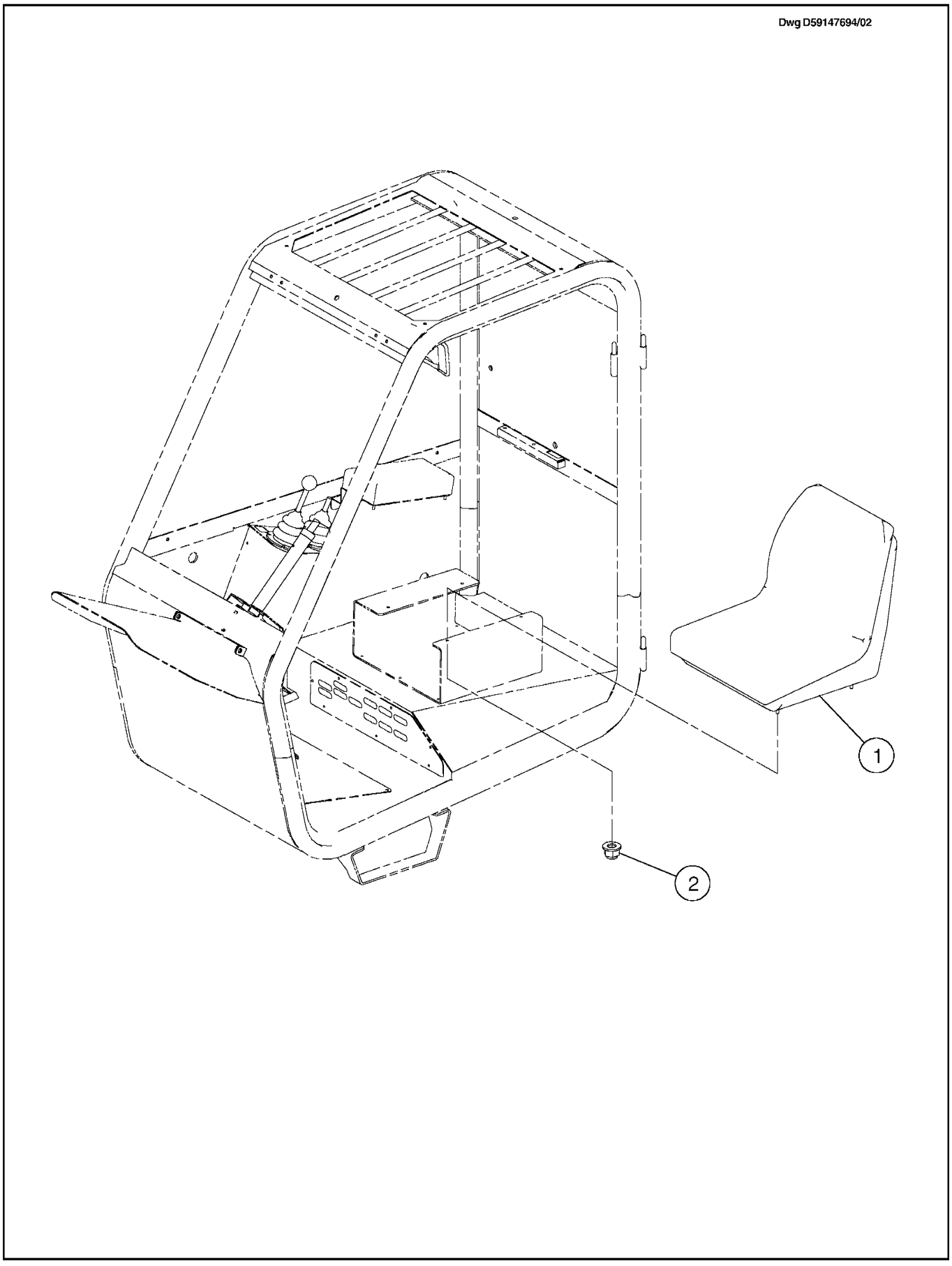
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GAUGE PANEL ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59113738		
1	59264911	Control Panel Plate	1	
2	59165001	Hourmeter	1	
3	59113761	Transmission Temperature Gauge	1	
4	59046920	Fuel Level Gauge	1	
5	59044297	Voltmeter	1	
6	59046904	Oil Pressure Gauge	1	
7	59132324	Water Temperature Gauge	1	
8	58835398	Blank	4	
9	59148692	BHCS	2	M3-0.5 x 12mm
10	59137448	Locknut	2	M3-0.5
11	59058156	Dome Plug	2	

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SEAT INSTALLATION



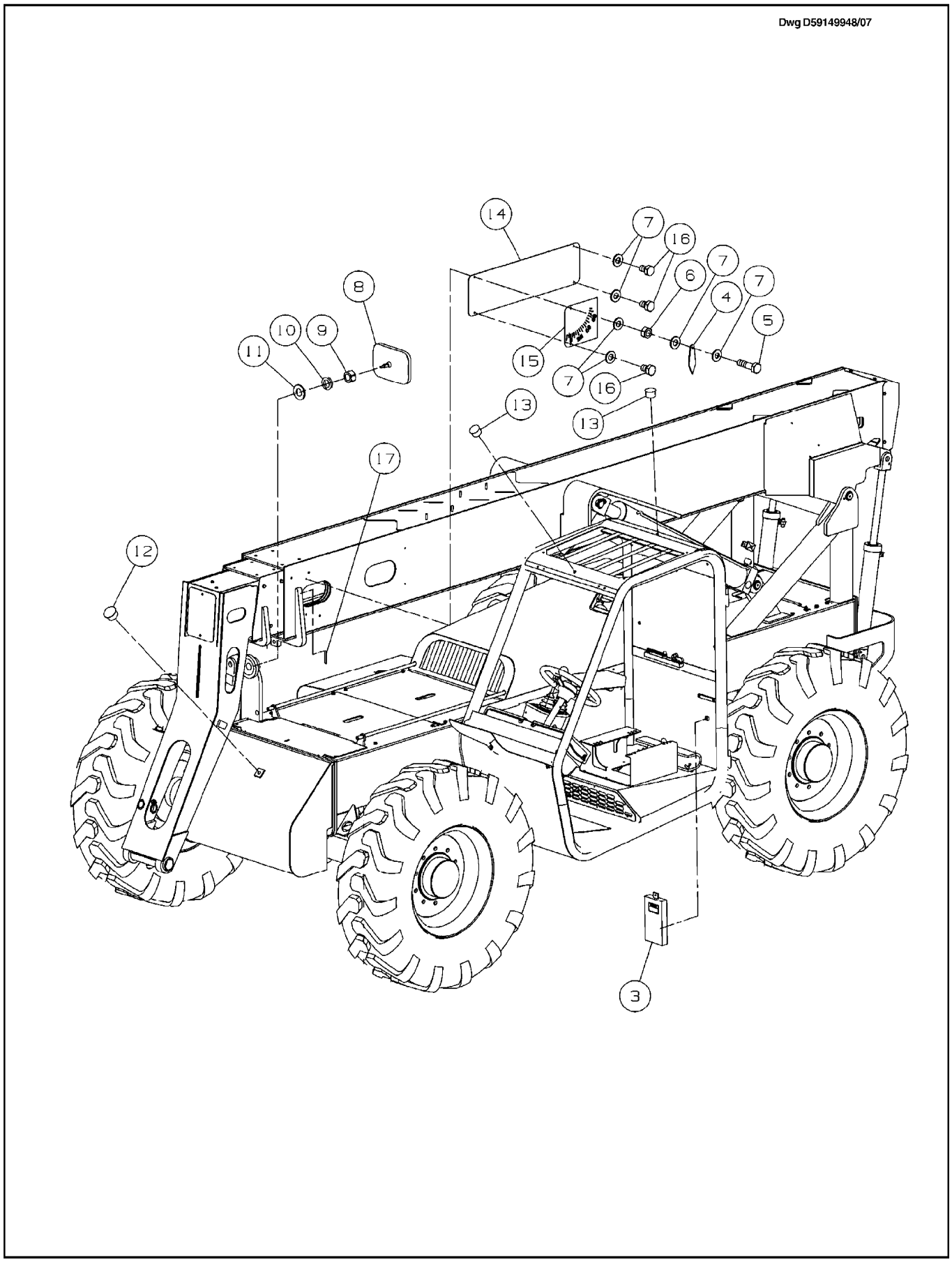
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SEAT INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59147694 &59069443		
1	**59156893**	**Standard Seat**	**1**	**See Breakdown - I.5**
-	**59156901**	**Suspension Seat**	**1**	**See Breakdown - I.6**
2	59464610	Locknut	4	

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MANUAL CASE, POINTER AND MIRROR INSTALLATION



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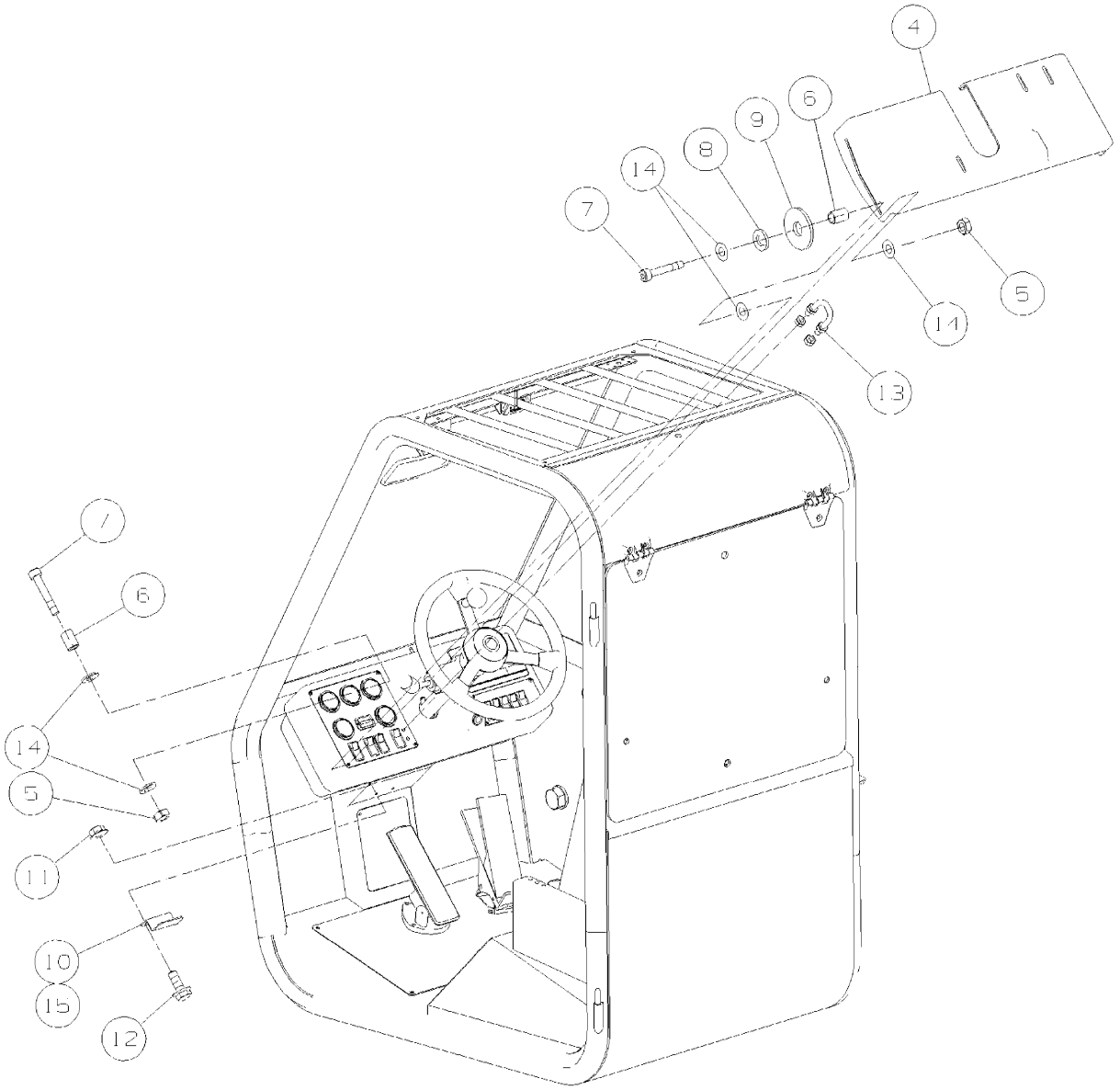
MANUAL CASE, POINTER AND MIRROR INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59149955		
3	59186874	Manual Case	1	
-	59185074	-Decal: Operators Manual	1	
-	96717525	-Lockscrew	3	M6-1 x 10mm
4	59116558	Pointer	1	
5	96705587	HHCS	1	M8 x 30
6	96702840	Hex Nut	1	M8-1.25
7	96738570	Hardened Flatwasher	10	M8
8	59450734	Mirror	1	
9	95922894	Hex Nut	1	3/8-16
10	95931440	Lockwasher	1	3/8
11	95922373	Flatwasher	1	3/8
12	59813279	Button Plug	1	
13	59325696	Hole Plug	2	
14	59181024	Boom Side Cover Plate	2	
15	59187518	Decal: Angle	1	
16	96705041	Capscrew	7	M8-1.25 x 12
17	59212571	Tape	A/R	

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VANDAL PROTECTION INSTALLATION - OPTIONAL

Dwg D13243571/00



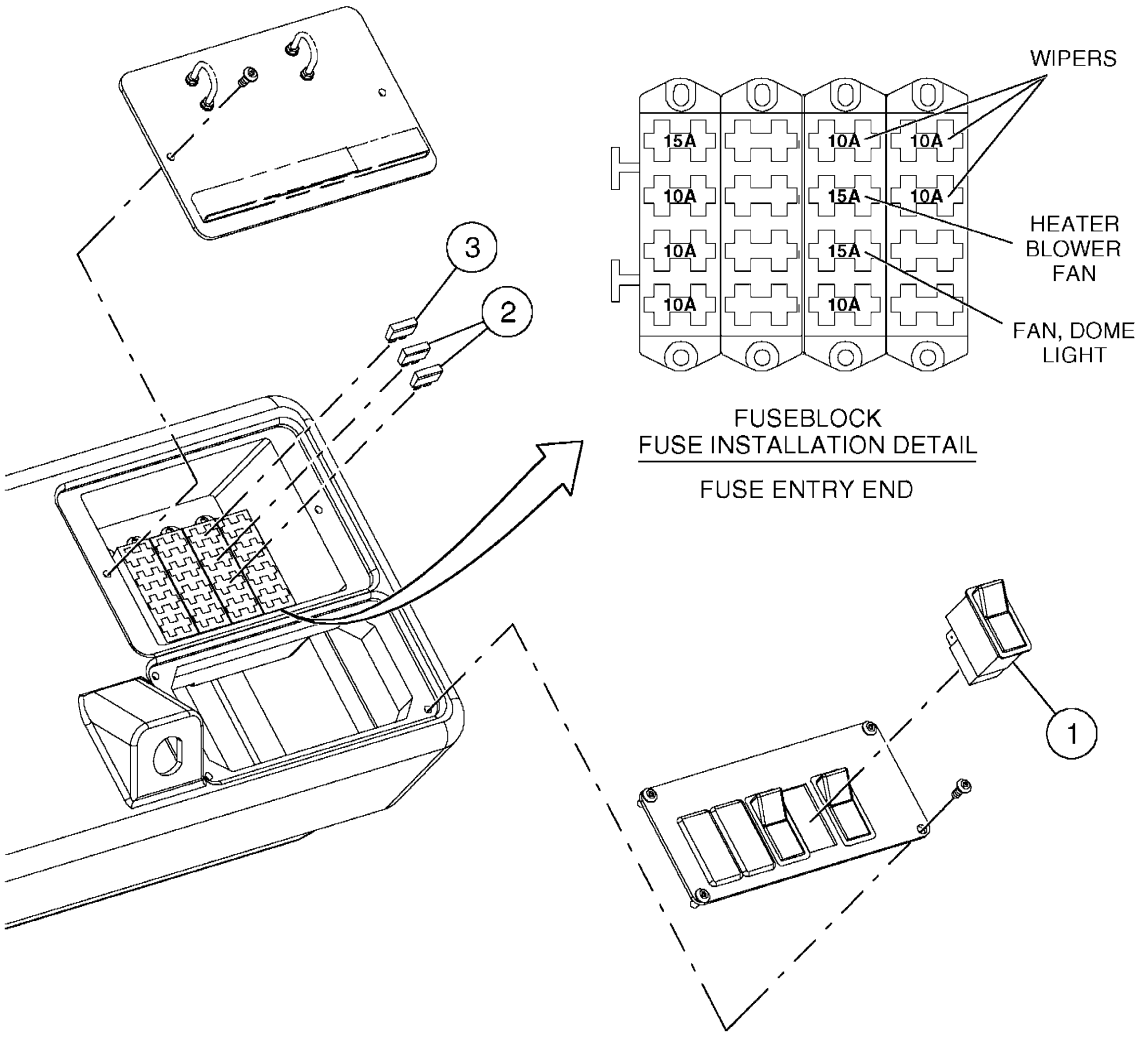
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VANDAL PROTECTION INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13243571		
4	59158857	Vandal Cover	1	
5	96703756	Hex Nut	4	M4-0.07
6	59158931	Spacer	4	
7	96728696	SHCS	4	M4-0.7 x 25mm
8	96741053	Flatwasher	2	M6
9	59134577	Nylon Washer	2	
10	59158865	Mounting Bracket	1	
11	96704176	Locknut	2	M6
12	96704531	Lockbolt	2	M6 x 16mm
13	59158956	U-bolt	1	1/4-20 x 3/4 x 1.75
14	96705165	Flatwasher	10	M4
15	13168596	Vandal Storage Tab Plate	1	

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Dwg D13259130/00



FUSEBLOCK
FUSE INSTALLATION DETAIL

FUSE ENTRY END

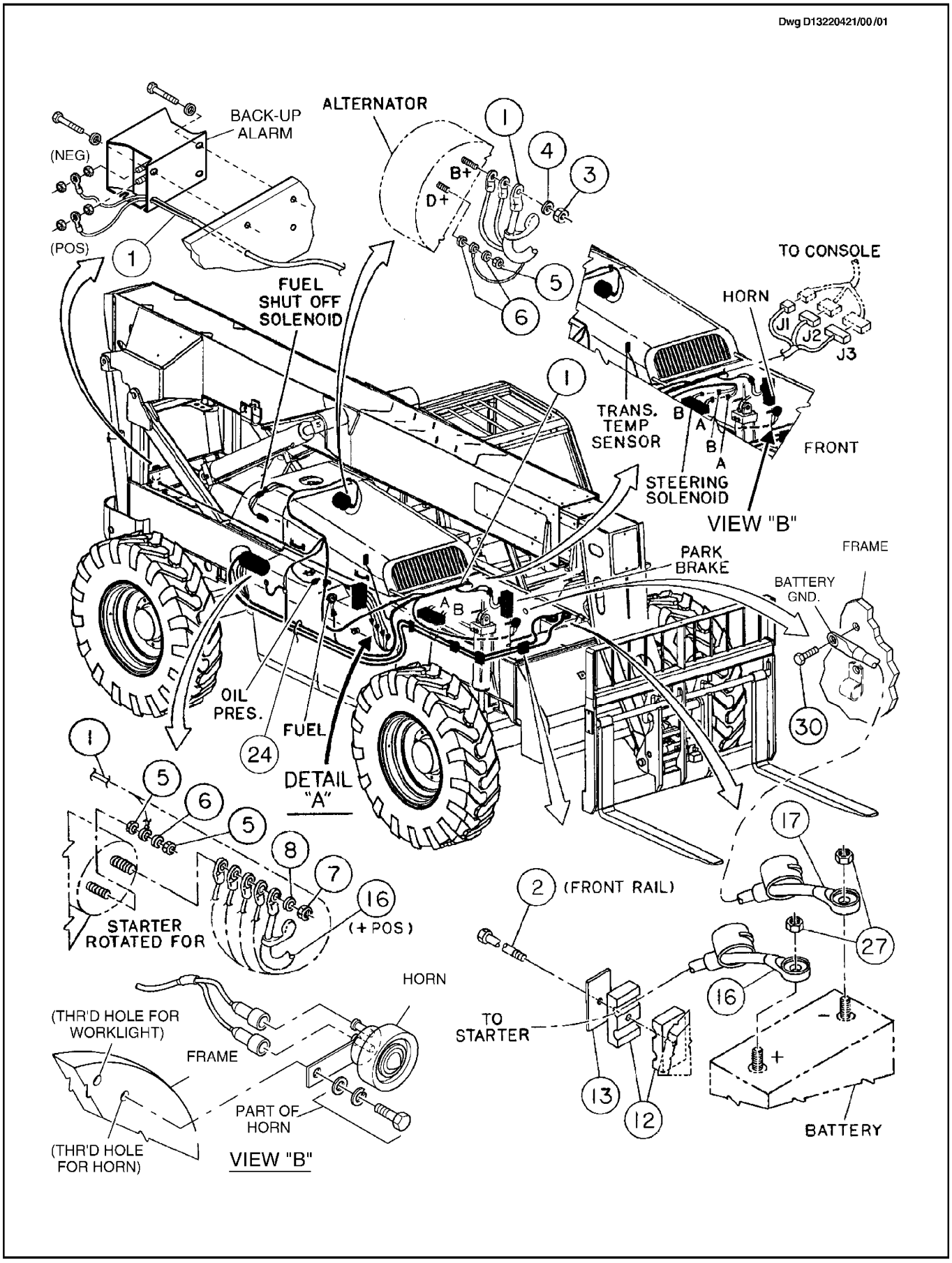
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CAB ACCESSORY INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13259130		
1	59196436	Blower Fan Switch	1	
2	59483339	Fuse	2	15 Amp
3	59325712	Fuse	3	10 Amp

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WIRING HARNESS INSTALLATION - SHEET 1 OF 2



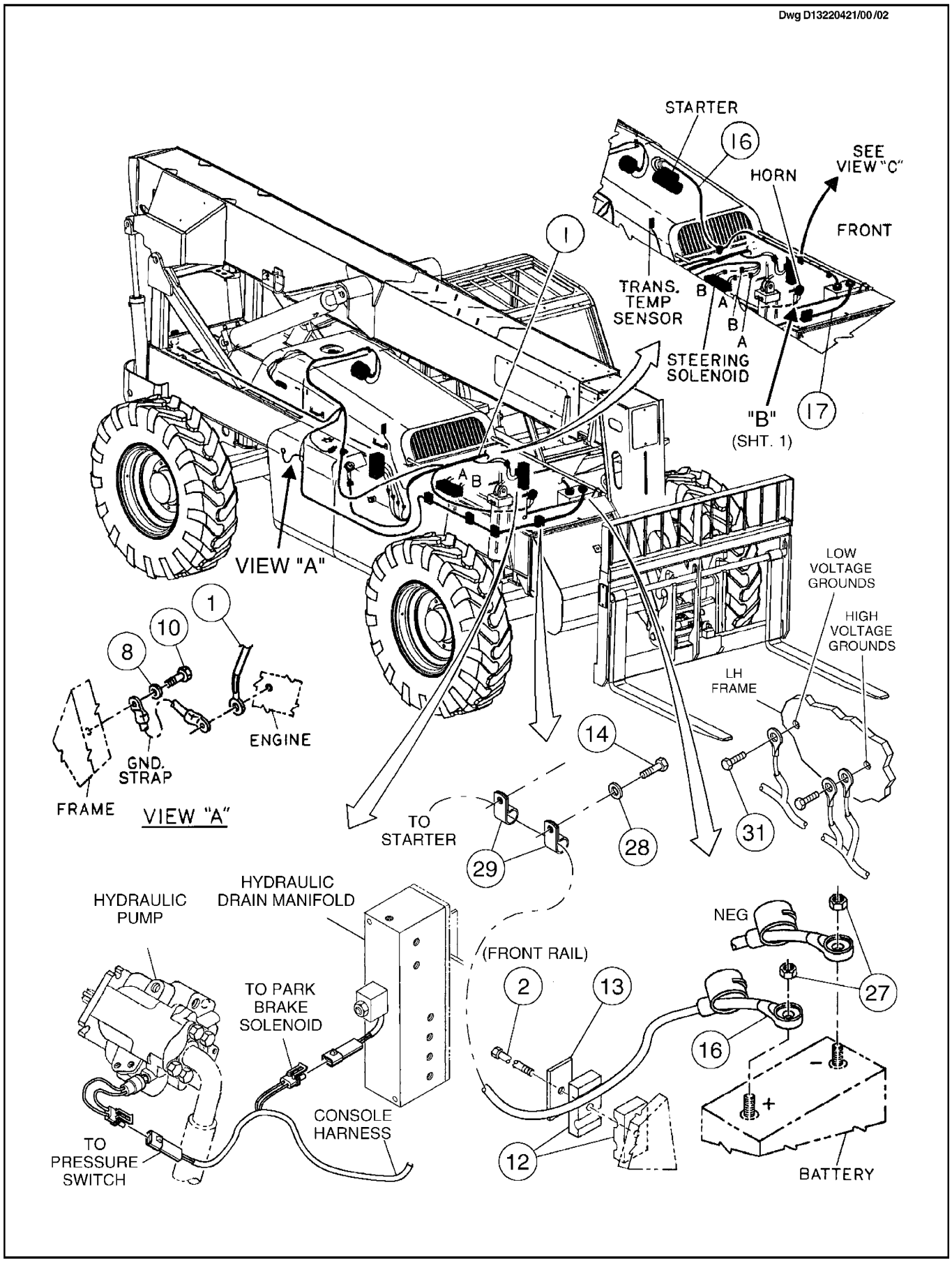
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WIRING HARNESS INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13220421		
1	59199182	Chassis Wiring Harness	1	
2	95920492	HHCS	1	5/16-18 x 1.375
3	96701370	Nut	1	M8-1.25
4	96741020	Flatwasher	1	M8
5	96705132	Hex Nut	3	M5-0.08
6	95931366	Lockwasher	2	#10
7	96704812	Hex Nut	1	
8	96714399	Flatwasher	1	M10
12	59583468	Insert Clamp	6	
13	59583450	Cover Plate	3	
16	59174656	Positive Battery Cable	1	
17	13159553	Negative Battery Cable	1	
24	95373973	Wire Tie	A/R	
27	59365130	Nut	2	
30	96702287	HHCS	1	M10 x 25
31	96702659	HHCS	2	M8-1.25 x 25

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WIRING HARNESS INSTALLATION - SHEET 2 OF 2



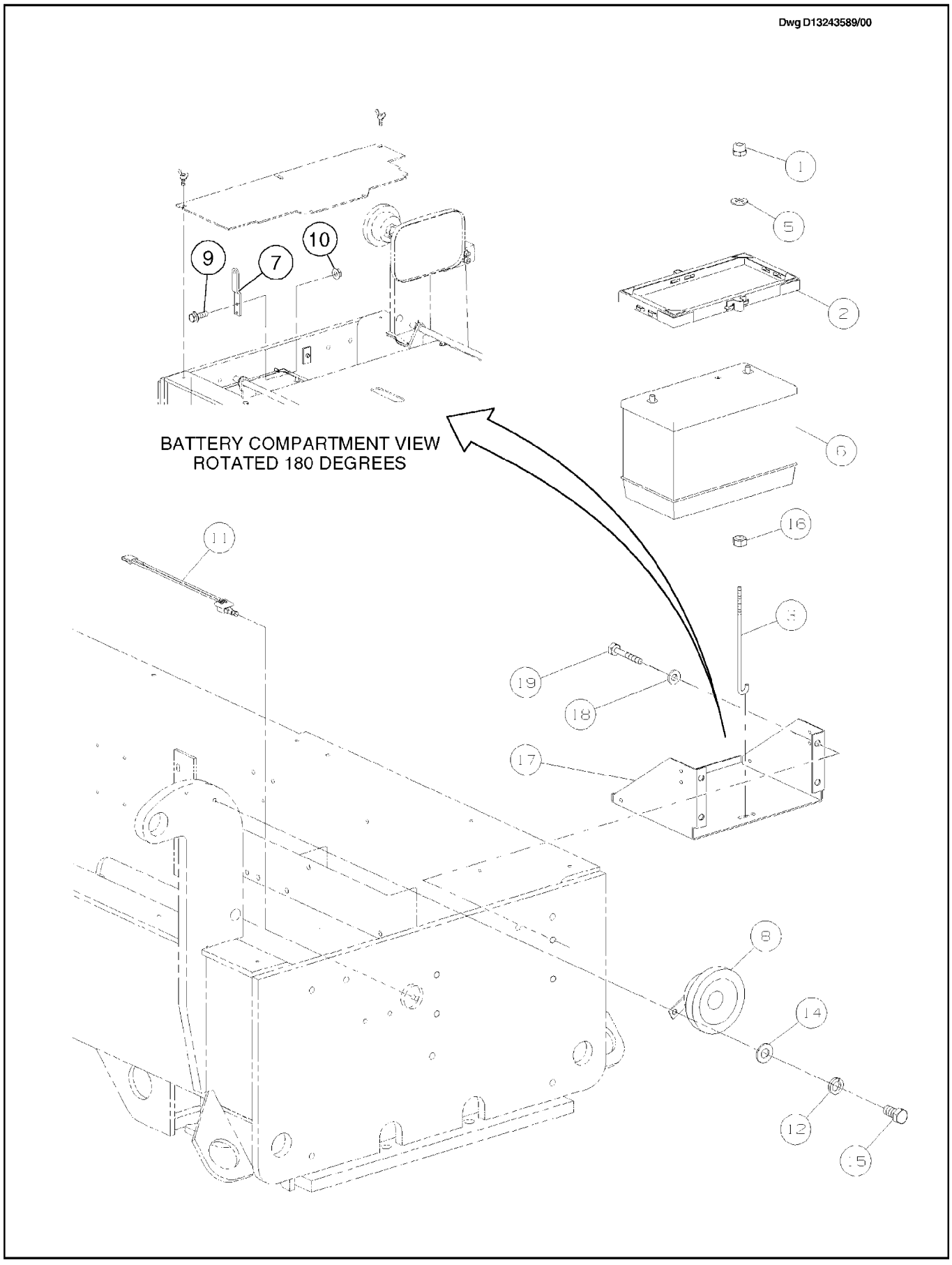
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WIRING HARNESS INSTALLATION - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	59199182	Chassis Wiring Harness	1	
2	95920492	HHCS	1	5/16-18 x 1.375
8	96714399	Flatwasher	1	M10
10	96702279	HHCS	1	M10 x 20
12	59583468	Insert Clamp	6	
13	59583450	Cover Plate	3	
14	96702824	HHCS	2	M8 x 20
16	59174656	Positive Battery Cable	1	
17	13159553	Negative Battery Cable	1	
27	59365130	Nut	2	
28	96741038	Flatwasher	2	M8
29	59465641	Clamp	2	
31	96702659	HHCS	2	M8-1.25 x 25

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BATTERY AND HORN INSTALLATION



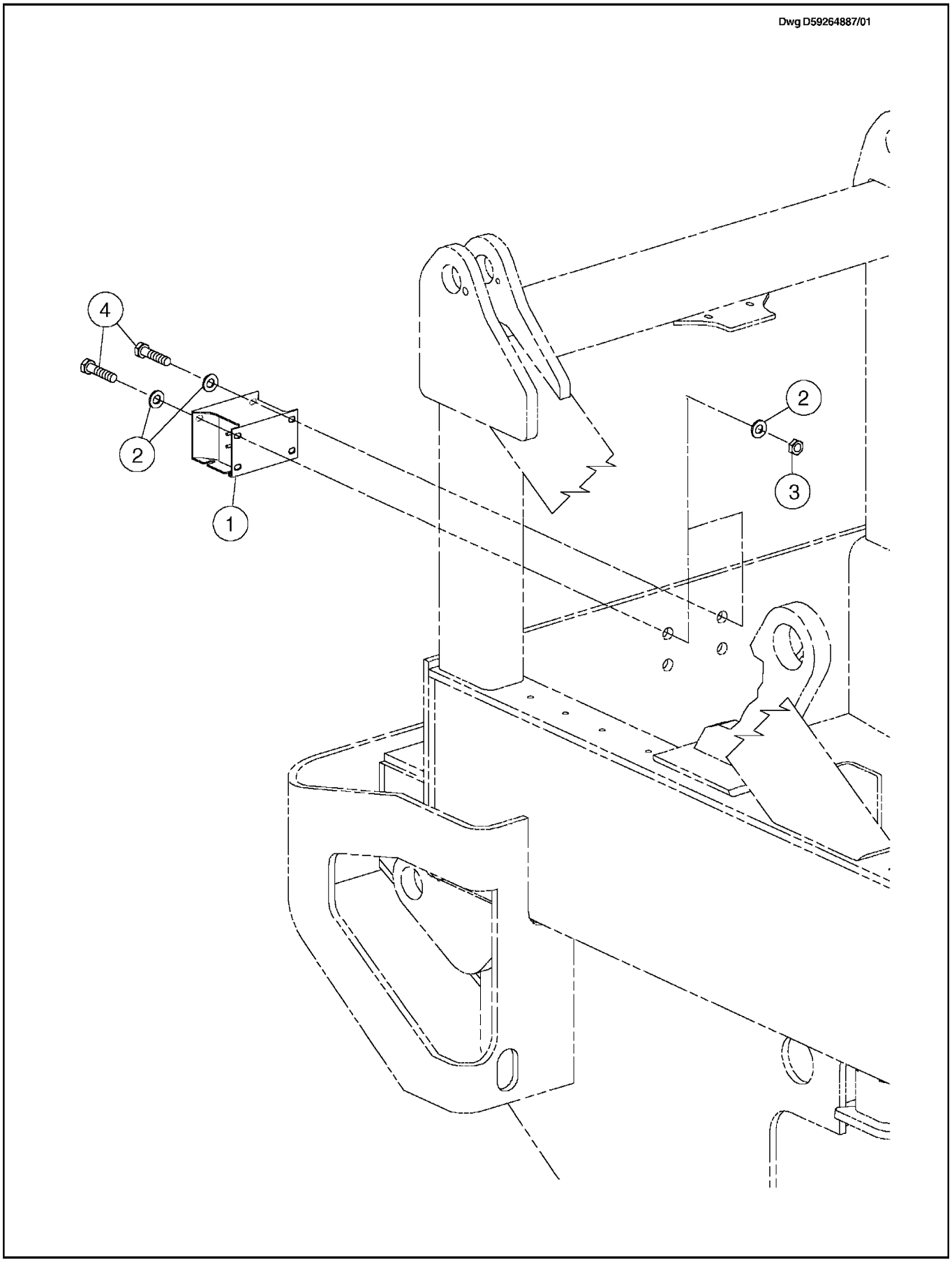
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BATTERY AND HORN INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13243589		
1	96704606	Hex Locknut	2	M8
2	59181875	Battery Hold Down	1	
3	54516836	J-hook	2	
5	96741038	Flatwasher	2	M8
6	59436931	Battery	1	
7	59299123	Vandal Resistant Battery Tab	1	
8	13111422	Horn	1	
9	96719190	HHCS	2	M6 x 20
10	96704176	Locknut	2	M6
11	59112011	Switch	1	
12	95931440	Lockwasher	1	3/8
14	95922373	Flatwasher	1	3/8
15	95919197	HHCS	1	3/8-16 x 0.75
16	96701370	Nut	2	M8-1.25
17	59265827	Battery Tray	1	
18	96741046	Flatwasher	4	M10
19	96701479	HHCS	4	M10 x 16

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BACKUP ALARM INSTALLATION



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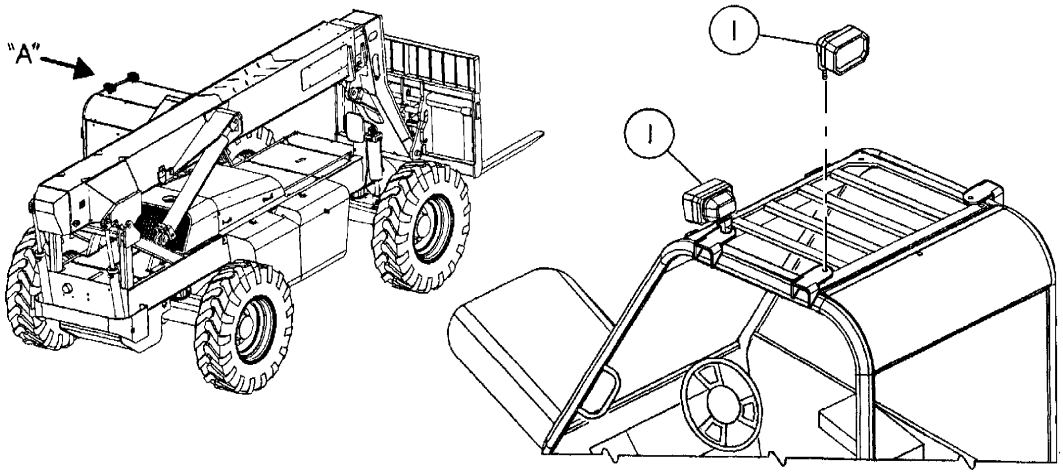
BACKUP ALARM INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59264887		
1	59426924	Backup Alarm	1	
2	96741038	Hardened Flatwasher	6	M8
3	96704606	Locknut	3	M8
4	96705587	HHCS	3	M8 x 30

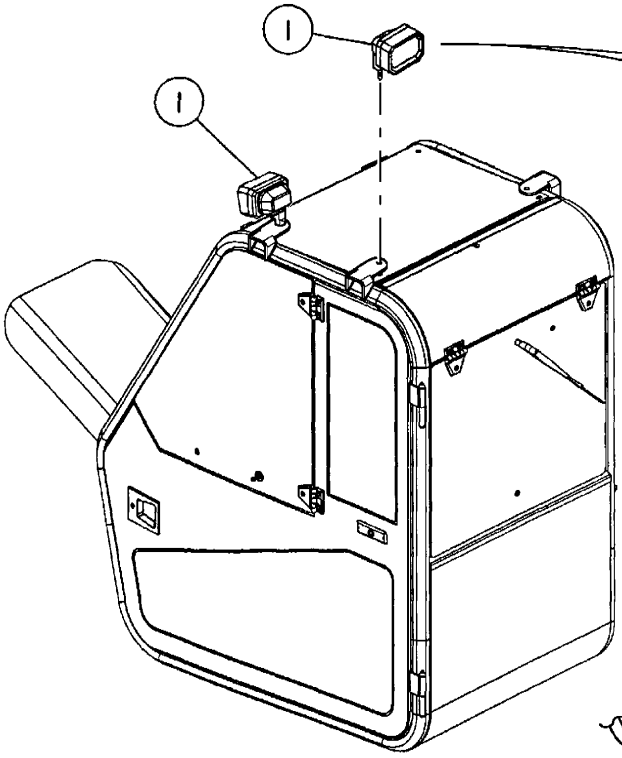
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ROAD LIGHT INSTALLATION - OPTIONAL - SHEET 1 OF 3

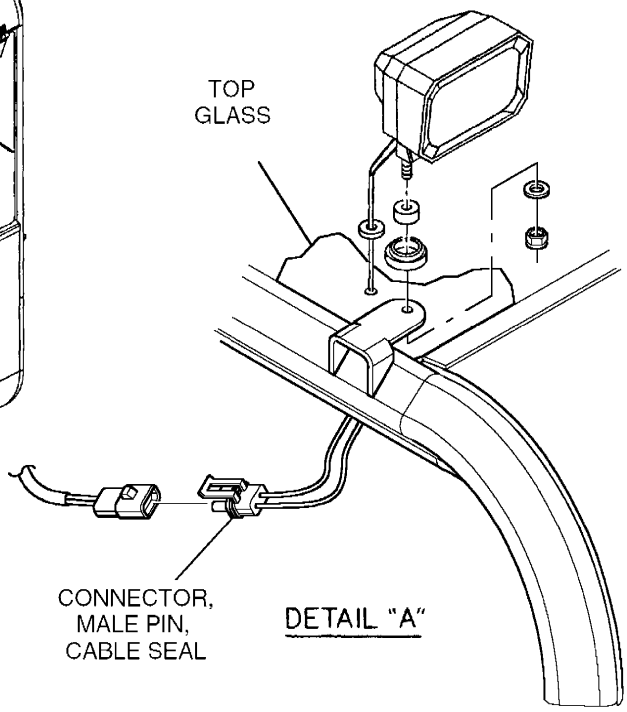
Dwg D13173646/00/01



MAIN OPEN R.O.P.S DETAIL



MAIN ENCLOSED CAB DETAIL



DETAIL "A"

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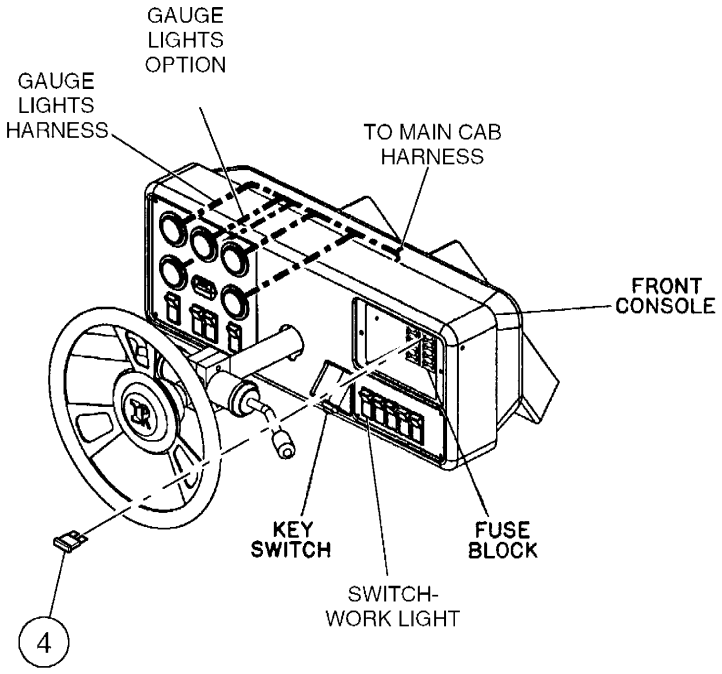
ROAD LIGHT INSTALLATION - OPTIONAL - SHEET 1 OF 3

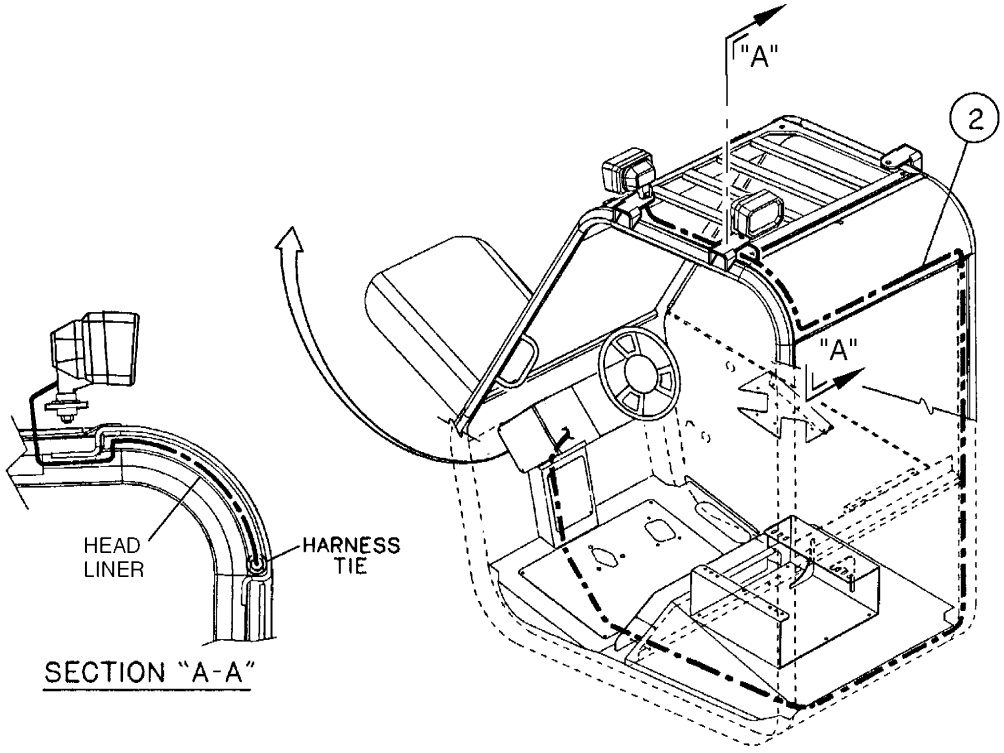
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173646		
1	NSVA	Work Light Installation - Optional	1	See Section - E.05

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ROAD LIGHT INSTALLATION - OPTIONAL - SHEET 2 OF 3

Dwg D13173646/00/02





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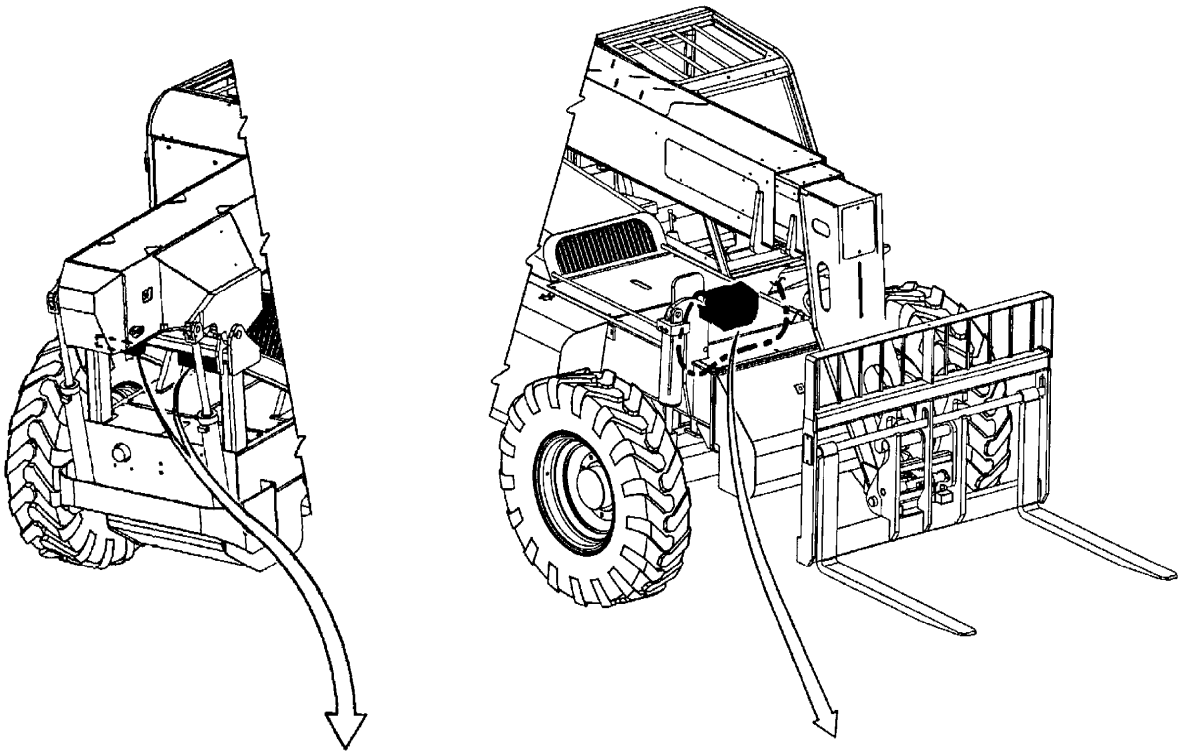
ROAD LIGHT INSTALLATION - OPTIONAL - SHEET 2 OF 3

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	59199828	Road Lights Harness	1	
4	59325712	Fuse	1	10 Amp

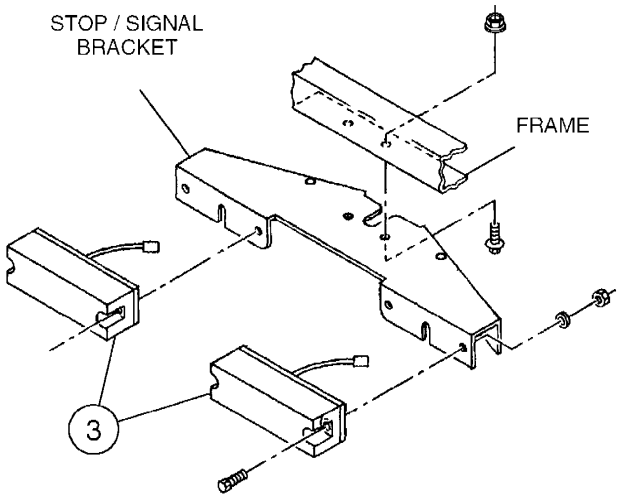
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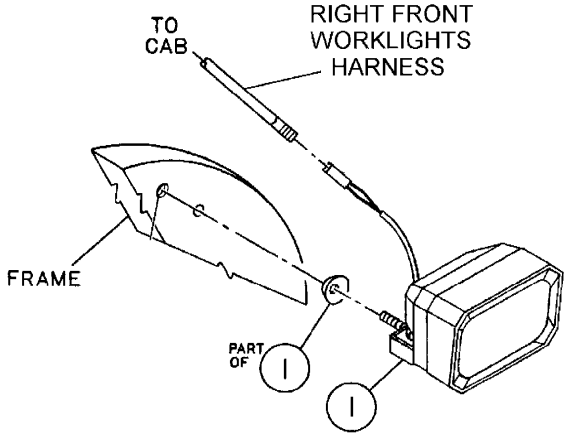
ROAD LIGHT INSTALLATION - OPTIONAL - SHEET 3 OF 3

Dwg D13173646/00/03



REAR VIEW





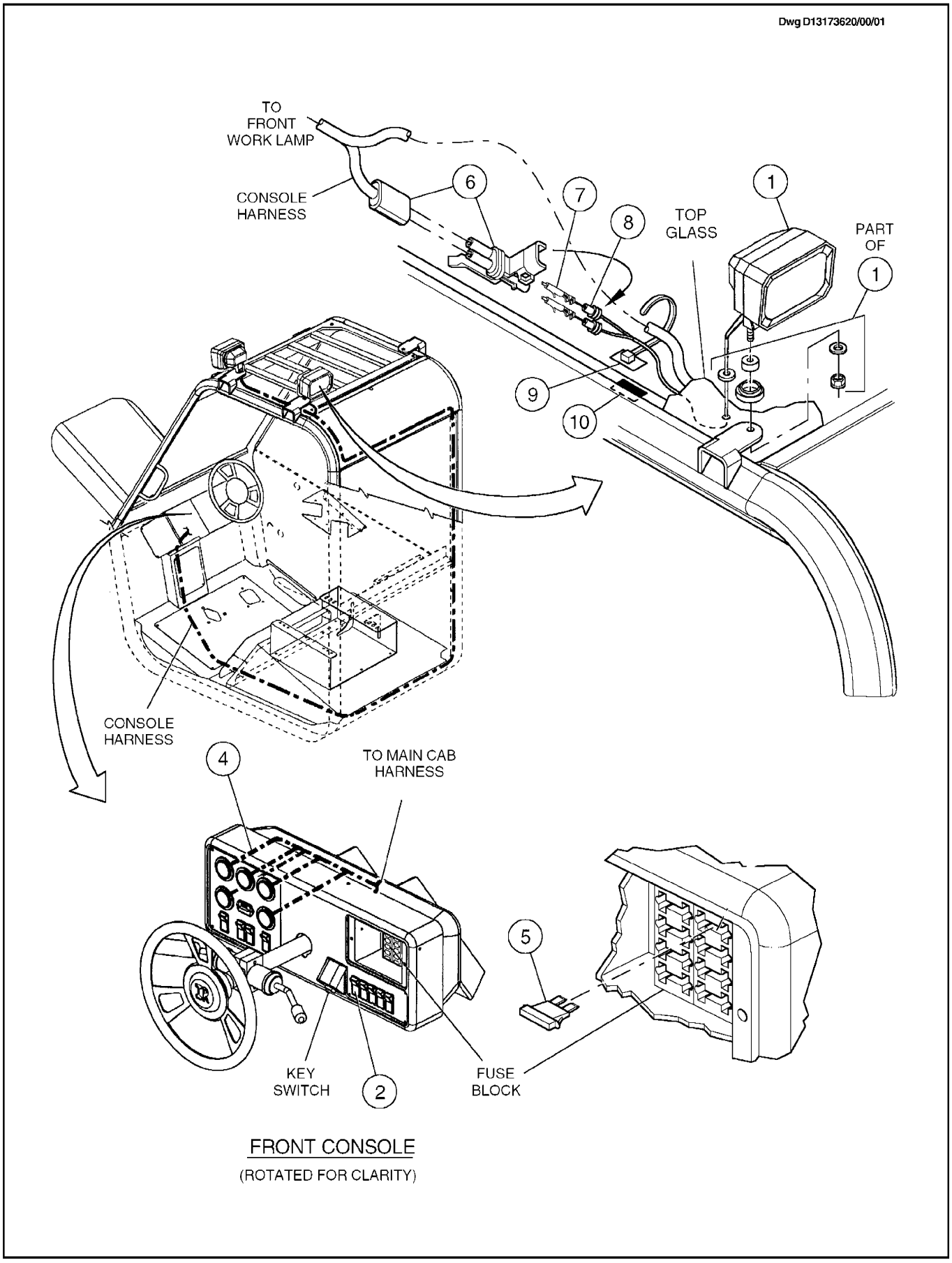
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ROAD LIGHT INSTALLATION - OPTIONAL - SHEET 3 OF 3

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	NSVA	Work Light Installation - Optional	1	See Section - E.05
3	NSVA	Stop/Turn Signal Assembly - Optional	1	See Section - E.06

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WORK LIGHT INSTALLATION - OPTIONAL - SHEET 1 OF 2



FRONT CONSOLE

(ROTATED FOR CLARITY)

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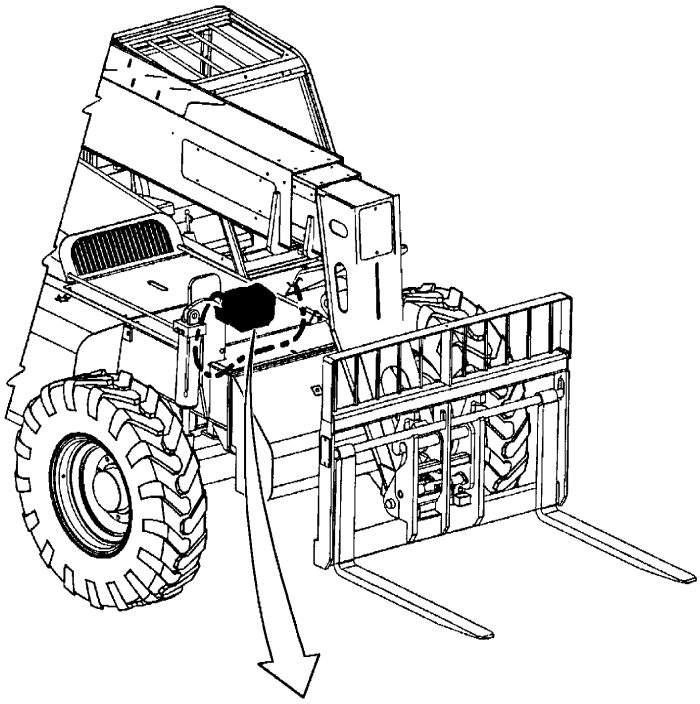
WORK LIGHT INSTALLATION - OPTIONAL - SHEET 1 OF 2

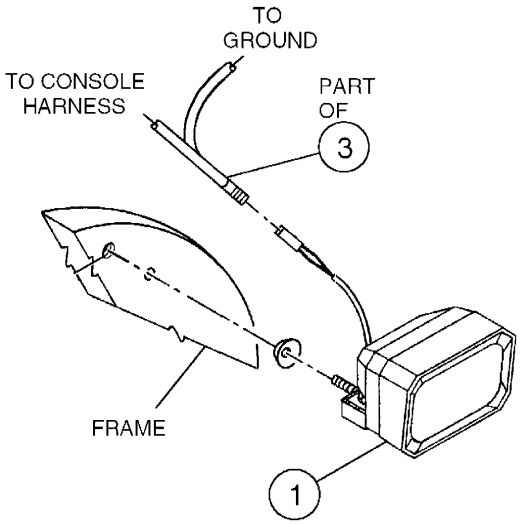
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173620		
1	58837949	Work Lamp	3	
2	59114124	Work Lights Switch	1	
4	59149088	Gauge Lights Harness	1	
5	59398016	Fuse	1	20 AMP
6	59854943	Connector	3	
7	59854828	Male Pin	6	
8	59854877	Cable Seal	6	
9	95373973	Wire Tie	A/R	
10	59670554	Adhesive	A/R	

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WORK LIGHT INSTALLATION - OPTIONAL - SHEET 2 OF 2

Dwg D13173620/00/02





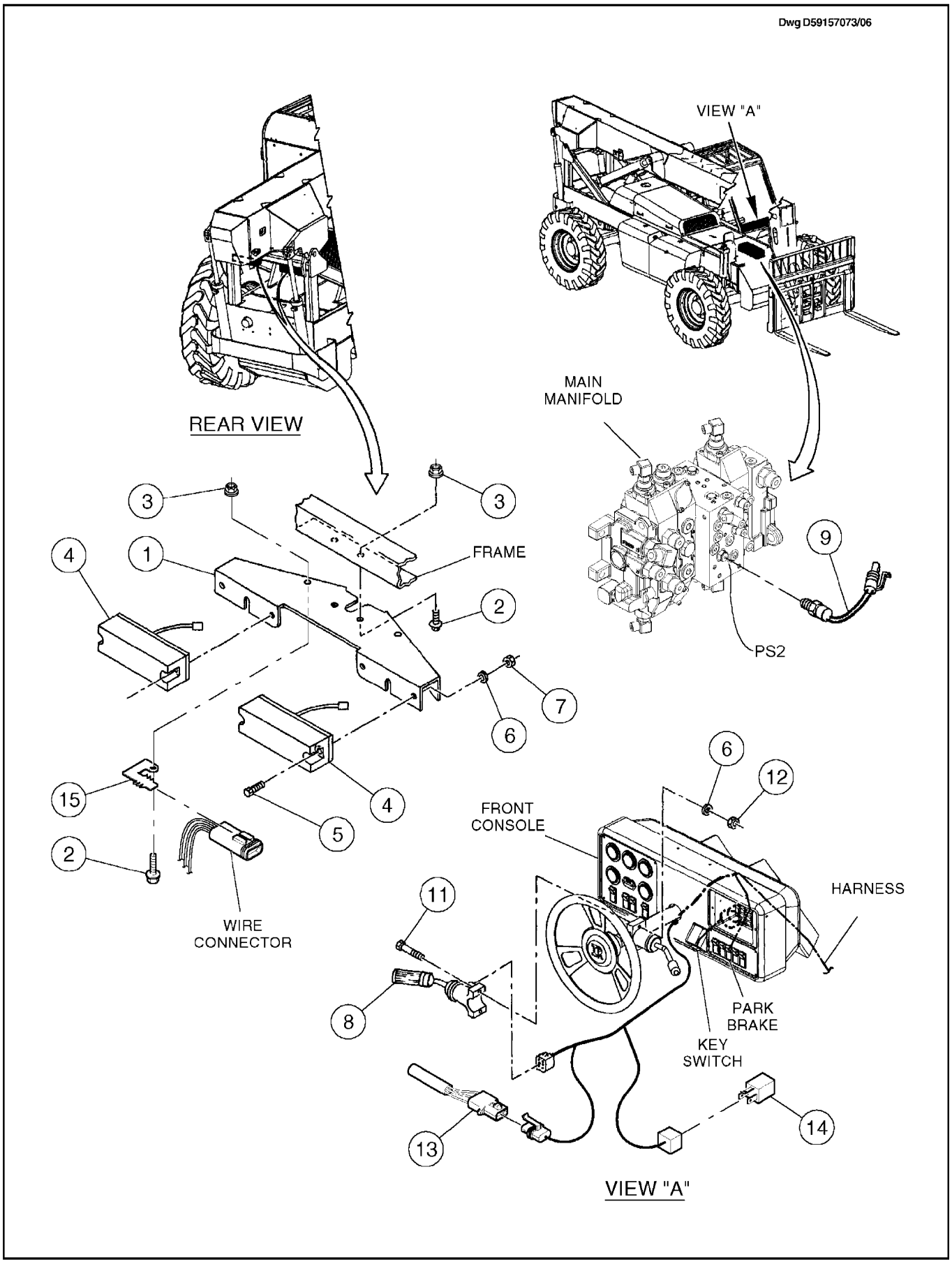
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WORK LIGHT INSTALLATION - OPTIONAL - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	58837949	Work Lamp	3	
3	59174235	Right Front Work Light	1	

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STOP/TURN SIGNAL ASSEMBLY - OPTIONAL



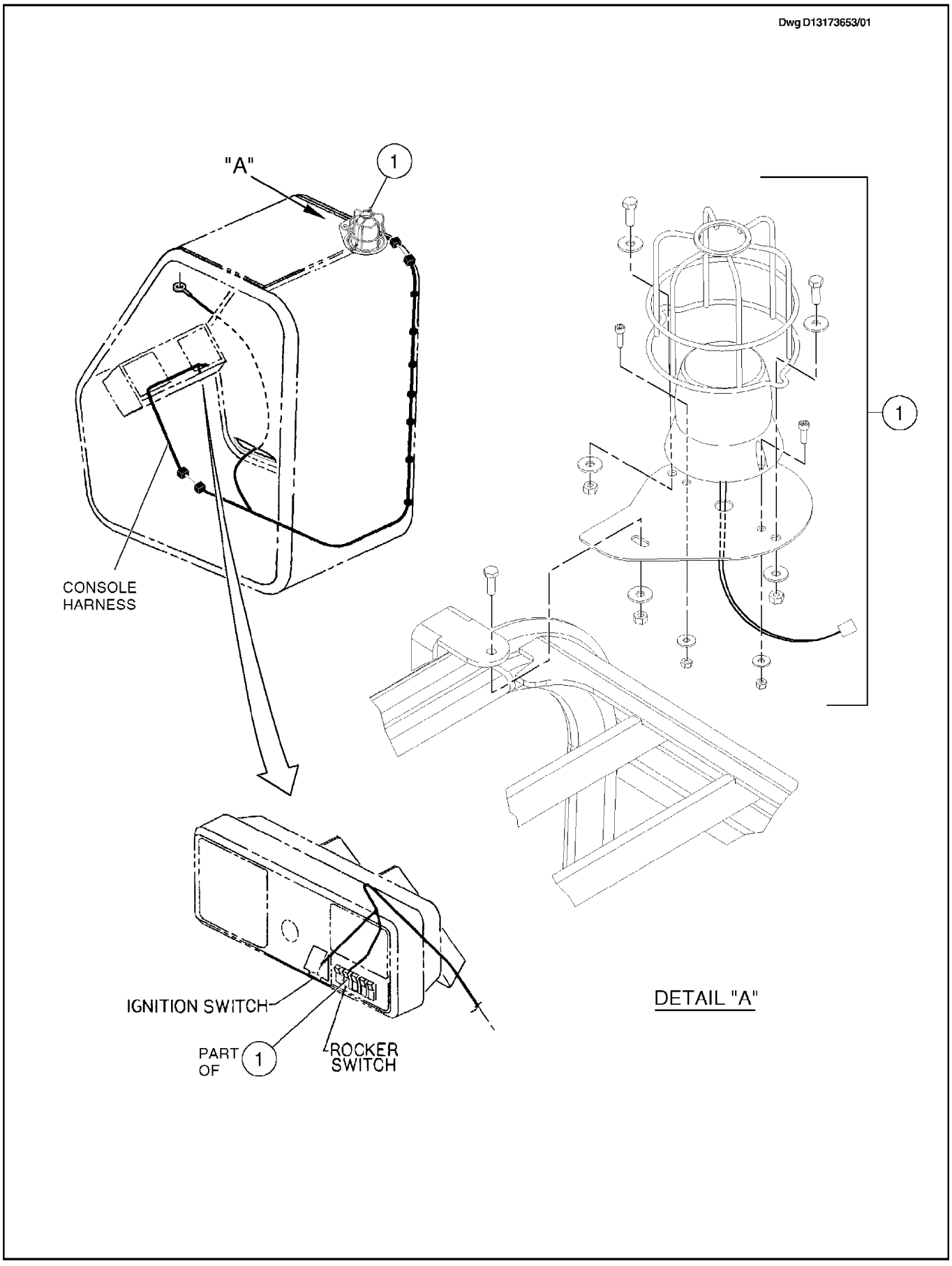
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STOP/TURN SIGNAL ASSEMBLY - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59157073		
1	59158204	Mounting Bracket	1	
2	96704531	Lockbolt	2	M6 x 16
3	96704176	Locknut	2	M6
4	59158196	Stop/Turn Signal Light Connector Assembly	1	
-	59157081	-Stop/Turn Signal Light	1	
-	*	-Turn Signal Bulb	1	1141 Bulb
-	*	-Brake Light Bulb	1	1156 Bulb
5	96733910	SHCS	4	M5 x 40
6	96741053	Flatwasher	6	M6
7	96702865	Locknut	4	M5-0.8
8	59149138	Turn Signal Switch	1	
9	59157792	Brake Light Switch	1	
11	96737499	Screw	2	M5-0.8 x 50
12	96705132	Hex Nut	2	M5-0.08
13	59149146	Diode Assembly	1	
14	58961582	Flasher	1	
15	59050740	Connector Clip	2	

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BEACON LIGHT INSTALLATION - OPTIONAL



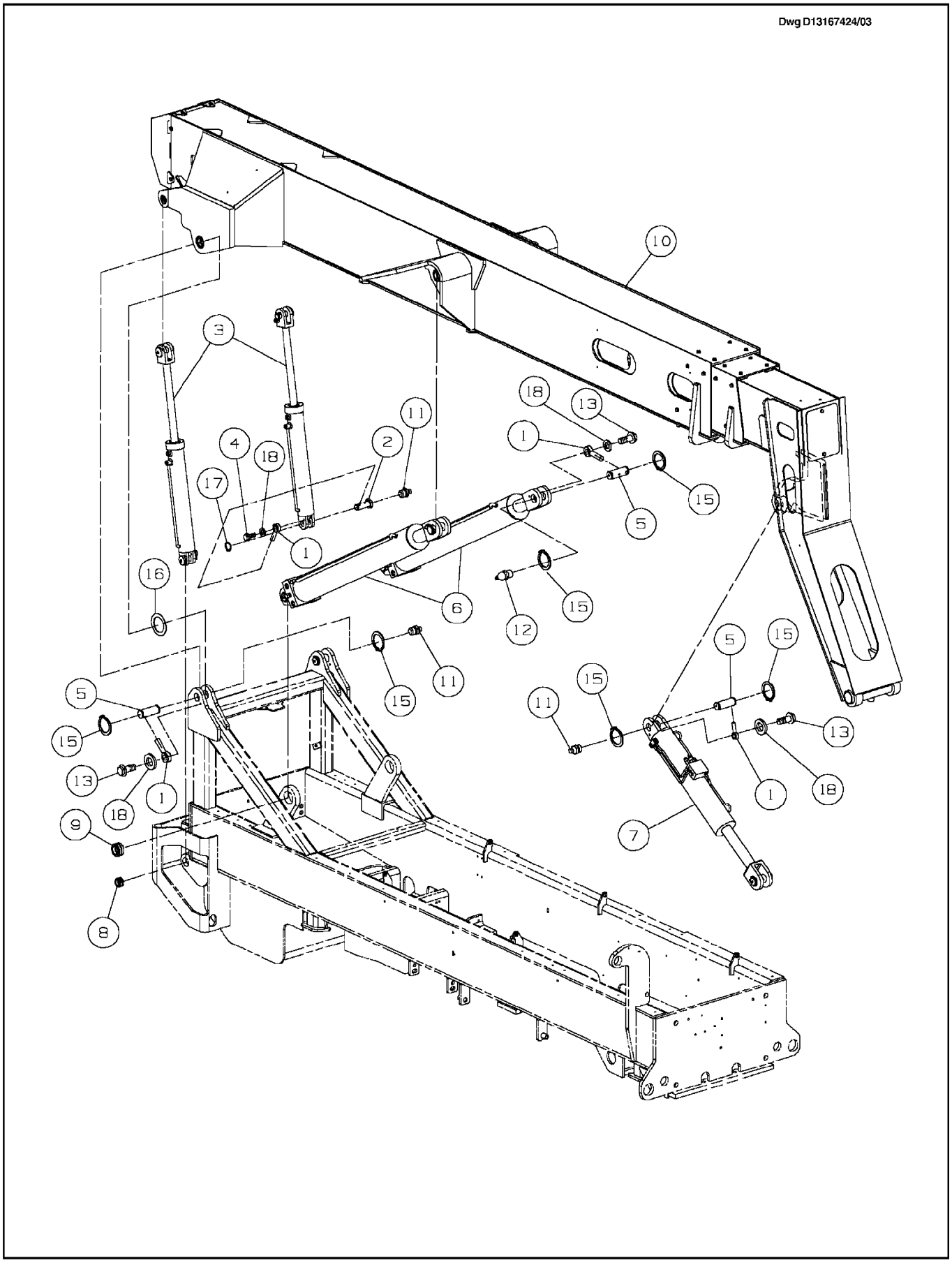
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BEACON LIGHT INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173653 & 13173661		
1	NSS	Rotating Beacon Kit	1	
-	59154732	-Strobe Light	1	
-	59194324	-Strobe Light Cage	1	
-	59114132	-Beacon Light Switch	1	

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BOOM INSTALLATION



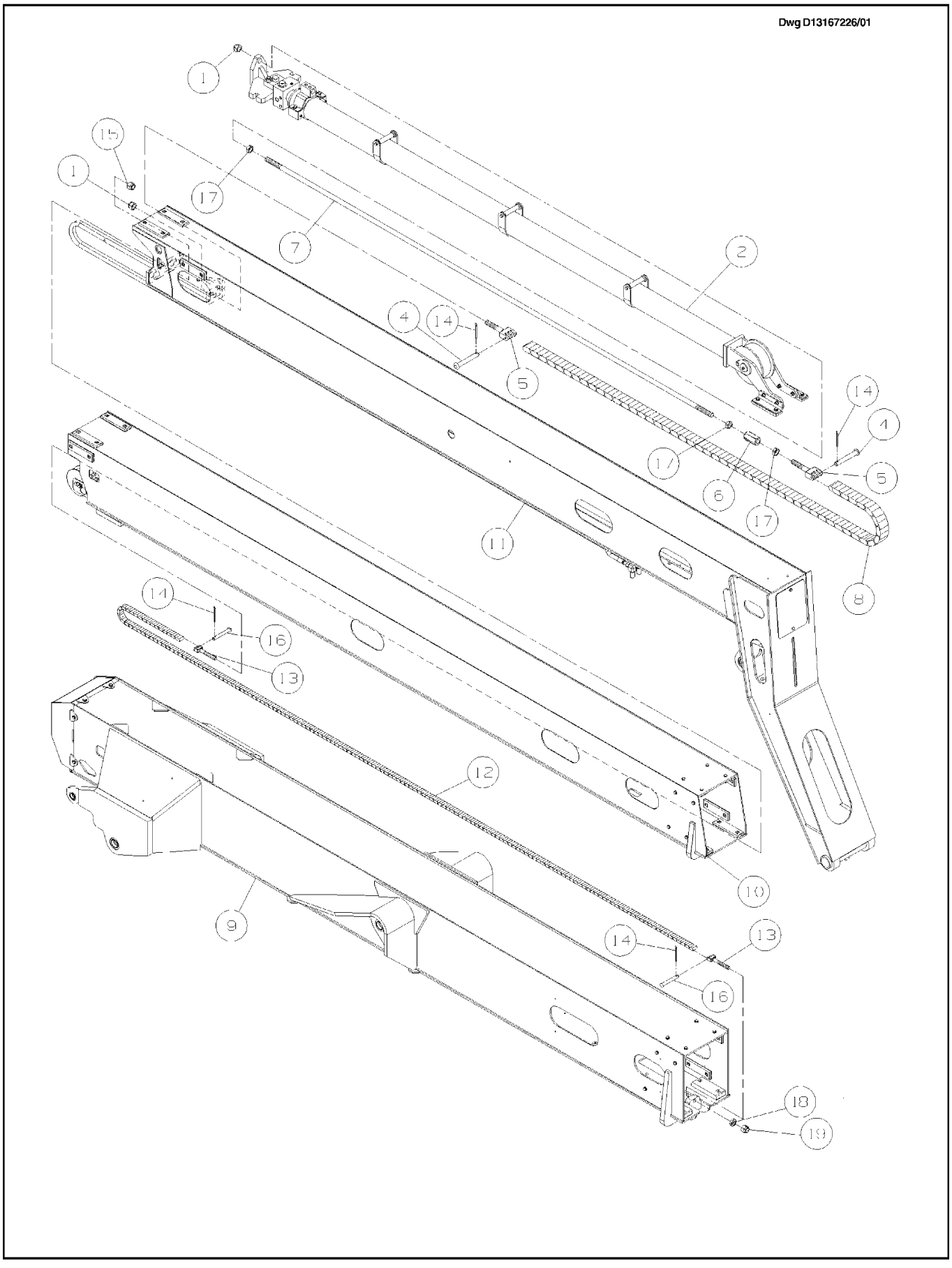
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BOOM INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13162672		
1	59455154	Anchor	11	
2	59272450	Cylinder Pivot Pin	4	
3	54526140	Tilt Compensation Cylinder	2	
4	96702311	HHCS	4	M12 x 30
5	59181776	Cylinder Pivot Pin	7	
6	59221721	Lift Cylinder	2	
7	59221770	Fork Tilt Cylinder	1	
8	50268127	Bearing	2	
9	58951674	Spherical Bearing	2	
10	**NSVA**	**Boom Assembly**	**1**	**See Section - F.2**
11	95201547	Grease Fitting	9	
12	95208971	Grease Fitting	2	
13	96703111	HHCS	7	M12 x 35
15	95992616	External Retaining Ring	14	
16	59457374	Thrustwasher	2	
17	95992608	External Retaining Ring	4	
18	96701545	Hardened Washer	11	M12

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BOOM ASSEMBLY



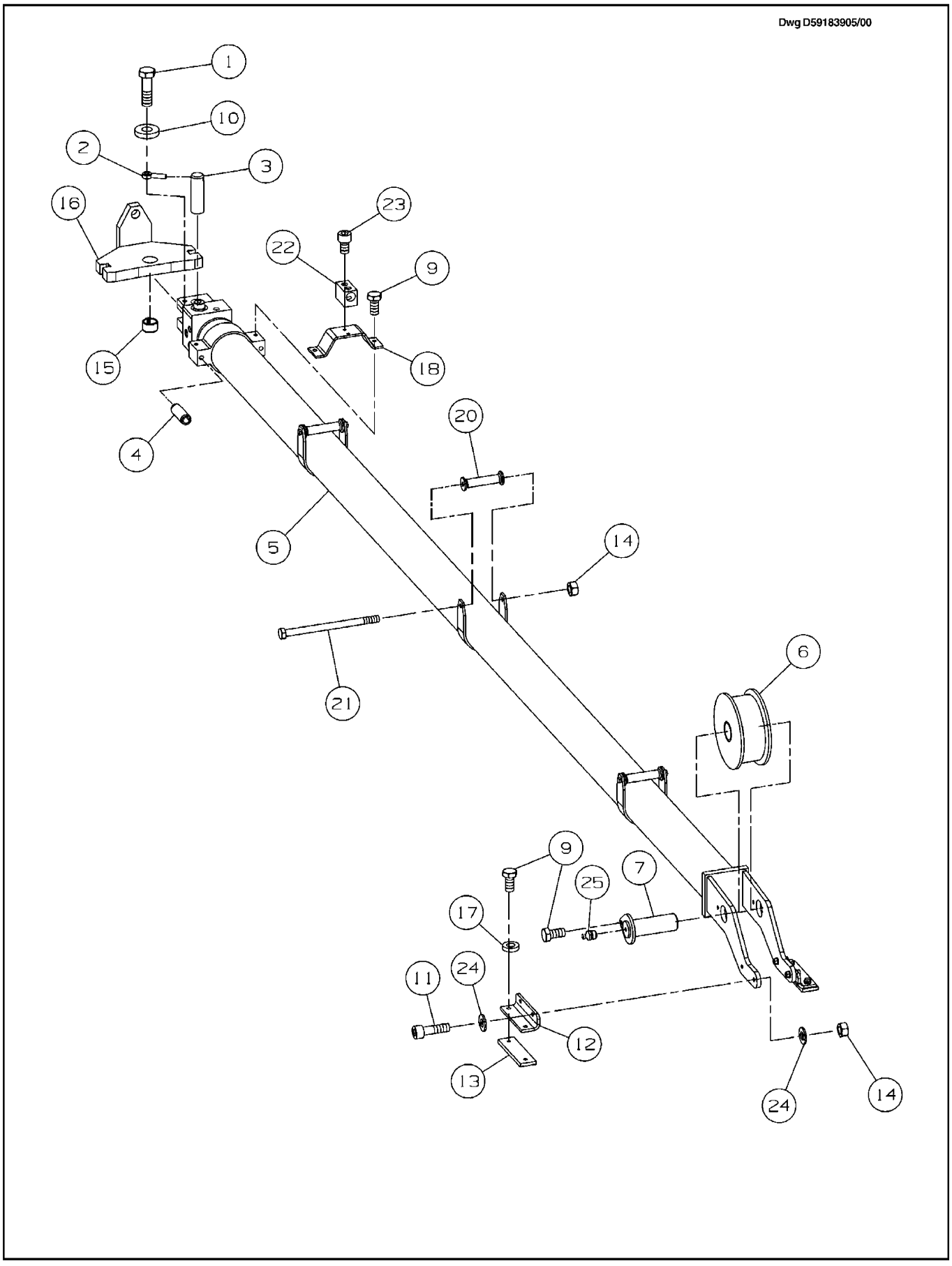
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BOOM ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13163134		
1	95972014	Locknut	2	1.0-12 UNF
2	**NSVA**	**Crowd Cylinder Assembly**	**1**	**See Section - F.3**
4	59001891	Anchor Pin	2	
5	59101170	Anchor Chain	2	
6	59101618	Union Nut	1	1.00"
7	59101048	Chain Anchor Rod	1	
8	59157339	Chain Extension	1	
9	**NSVA**	**Outer Boom Section Assembly**	**1**	**See Section - F.4**
10	**NSVA**	**Intermediate Boom Section Assembly**	**1**	**See Section - F.5**
11	**NSVA**	**Inner Boom Section Assembly**	**1**	**See Section - F.6**
12	13208780	Retract Chain	1	
13	13167028	Threaded Anchor	2	
14	95985479	Cotter Pin	4	
15	59590091	Locknut	1	
16	59456962	Anchor Chain Pin	2	
17	95944468	Jam Nut	3	1-12 UNF
18	59462895	Base Ring	1	
19	59456178	Self-aligning Nut	1	

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CROWD CYLINDER ASSEMBLY



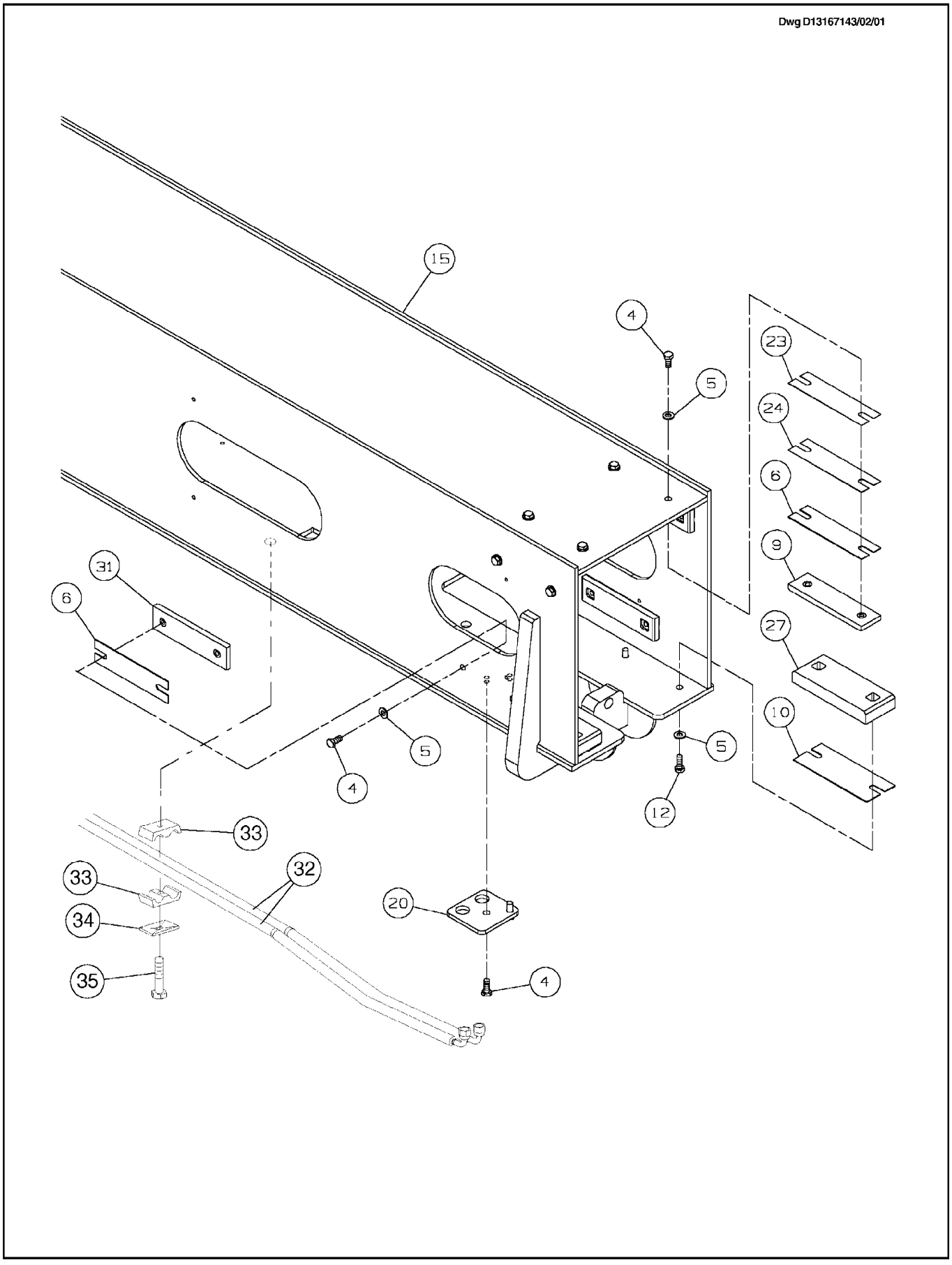
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CROWD CYLINDER ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59174441		
1	96702444	HHCS	1	M12-1.75 x 40
2	59455154	Anchor	1	
3	59454801	Pin	1	
4	95246088	Roll Pin	2	1/2 x 1 1/2
5	54473020	Crowd Cylinder	1	
-	59144329	-Counterbalance Valve (Extend)	1	
-	59199232	-Counterbalance Valve (Retract)	1	
-	59221317	-Counterbalance Valve (Retract) Seal Kit	1	
-	54628128	-Crowd Cylinder Seal Kit	1	
6	**NSVA**	**Crowd Cylinder Chain Sheave Assembly**	**1**	**See Section - F.7**
7	59157404	Keeper Pin	1	
9	96702279	HHCS	7	M10 x 20
10	96712237	Flatwasher	1	
11	96702170	Bolt	4	M10 x 35
12	59100974	Cylinder Support Angle	2	
13	13156799	Wear Pad	2	
14	96704812	Hex Nut	7	
15	59455204	Bushing	1	
16	59115089	Anchor	1	
17	59565036	Hardened Flatwasher	4	0.40 x 0.81 x 0.19
18	59116459	Bracket Guide Plate	1	
20	59135087	Chain Sheave Guard	3	
21	96714985	HHCS	3	M10-1.5 x 150
22	59116467	Anchor Guide	1	
23	96708136	SHCS	2	M10 x 1.0
24	96741046	Flatwasher	8	M10
25	95201547	Fitting	1	

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OUTER BOOM SECTION ASSEMBLY - SHEET 1 OF 2



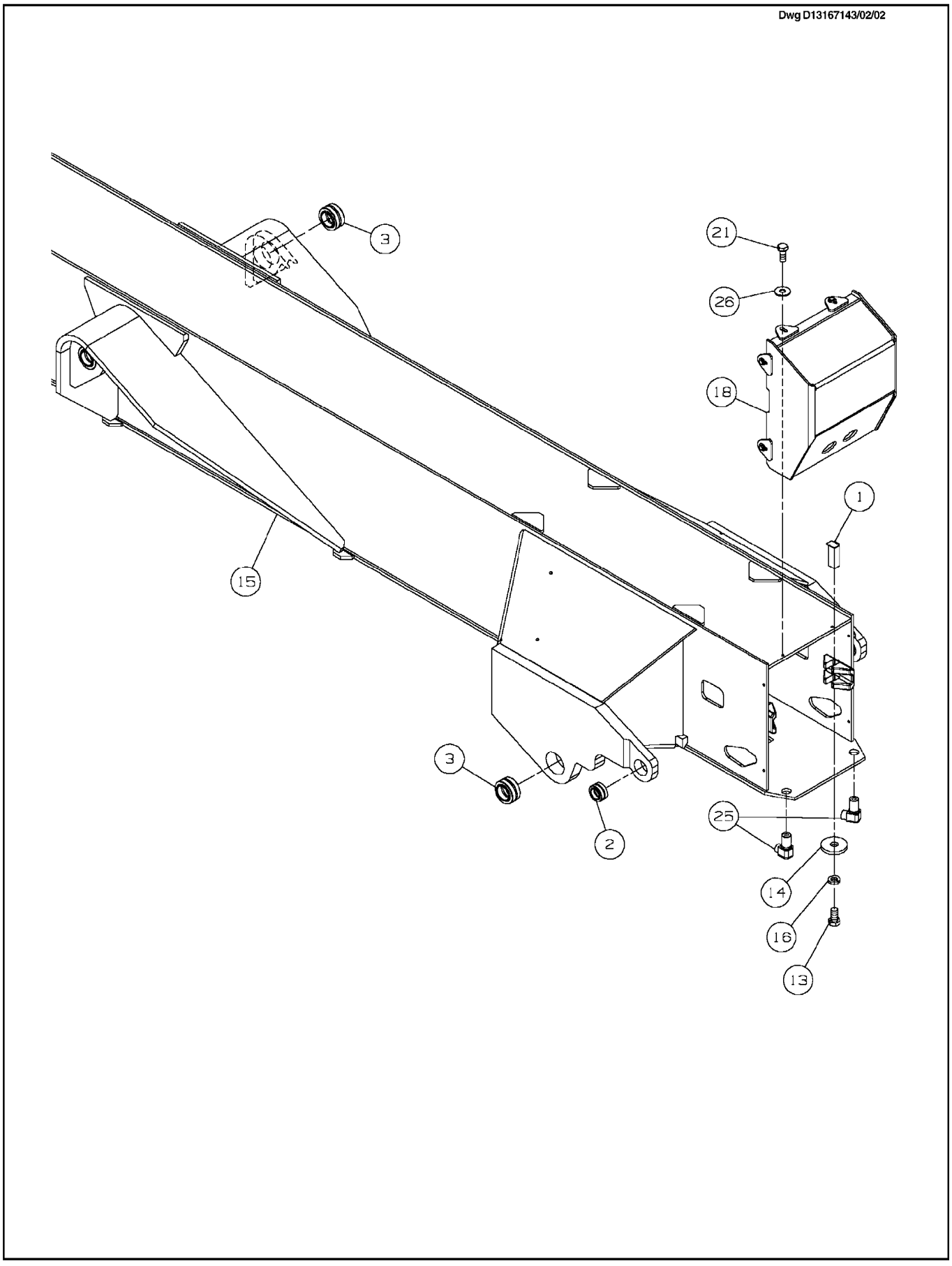
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OUTER BOOM SECTION ASSEMBLY - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13163142		
4	96702279	HHCS	14	M10 x 20
5	96741046	Flatwasher	12	M10
6	59100941	Shim Plate	6	1.52mm
9	13156799	Wear Pad	2	
10	59269134	Shim Plate	2	1.52mm
12	96702287	HHCS	4	M10 x 25
15	13166293	Outer Boom	1	
20	13158548	Bulkhead Plate	1	
23	59135194	Shim Plate	2	0.76mm
24	59136804	Shim Plate	4	0.38mm
27	13156781	Wear Pad	2	
31	59182196	Wear Pad	4	
32	59286054	Tube Assembly	2	
33	54525811	Clamp	4	
34	59607200	Cover Plate	2	
35	96702402	HHCS	2	M8-1.25 x 50

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OUTER BOOM SECTION ASSEMBLY - SHEET 2 OF 2



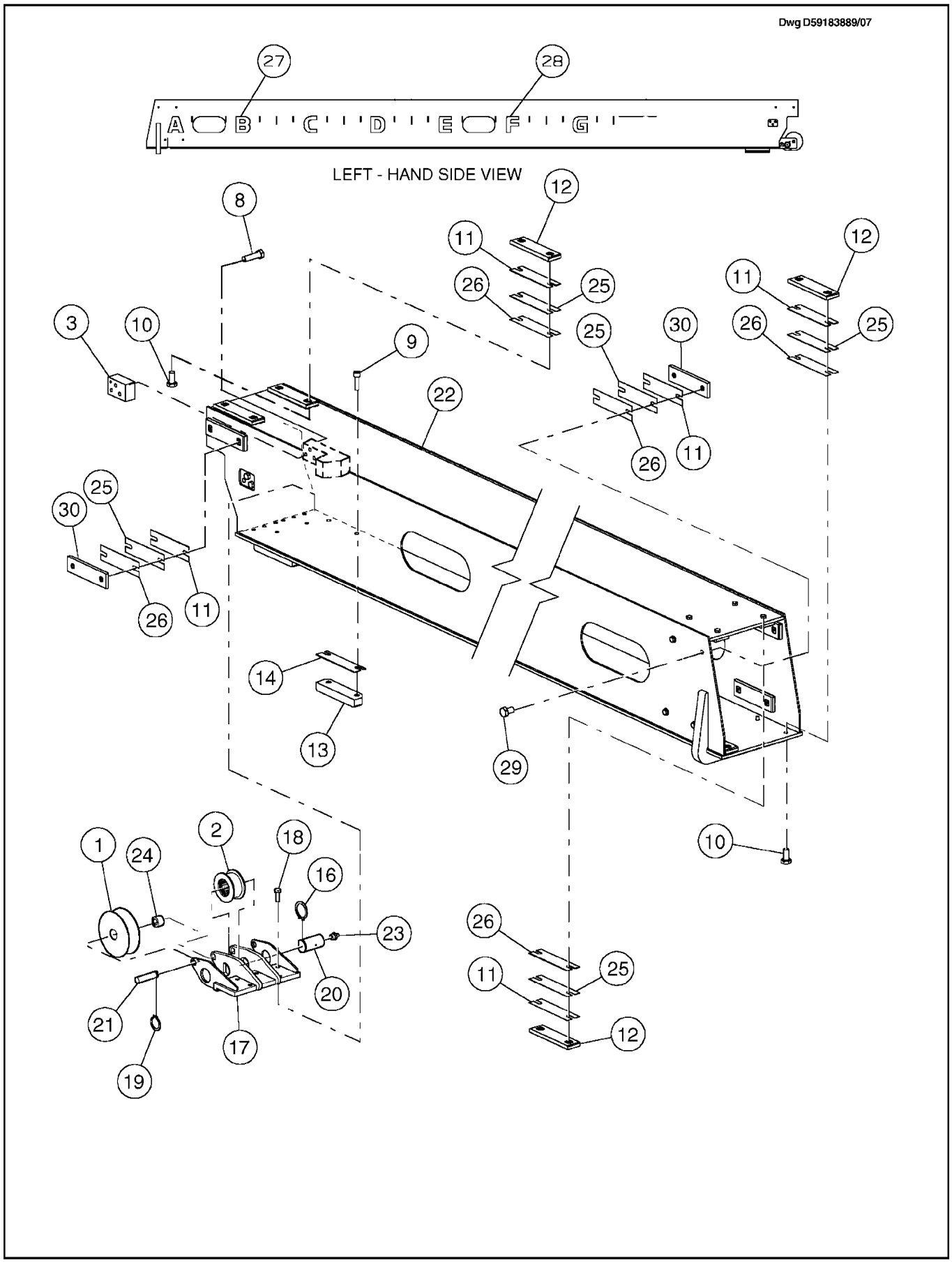
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OUTER BOOM SECTION ASSEMBLY - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	59451641	Mounting Block	2	
2	50268127	Bearing	2	
3	58951674	Spherical Bearing	4	
13	95919197	Capscrew	2	3/8-16 x 0.75
14	50264860	Washer	2	
15	13166293	Outer Boom	1	
16	95931432	Lockwasher	2	3/8
18	59291203	Boom Cowling	1	
21	96702824	HHCS	6	M8 x 20
25	59962324	Adapter	2	
26	59887182	Hardened Flatwasher	6	

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INTERMEDIATE BOOM SECTION ASSEMBLY



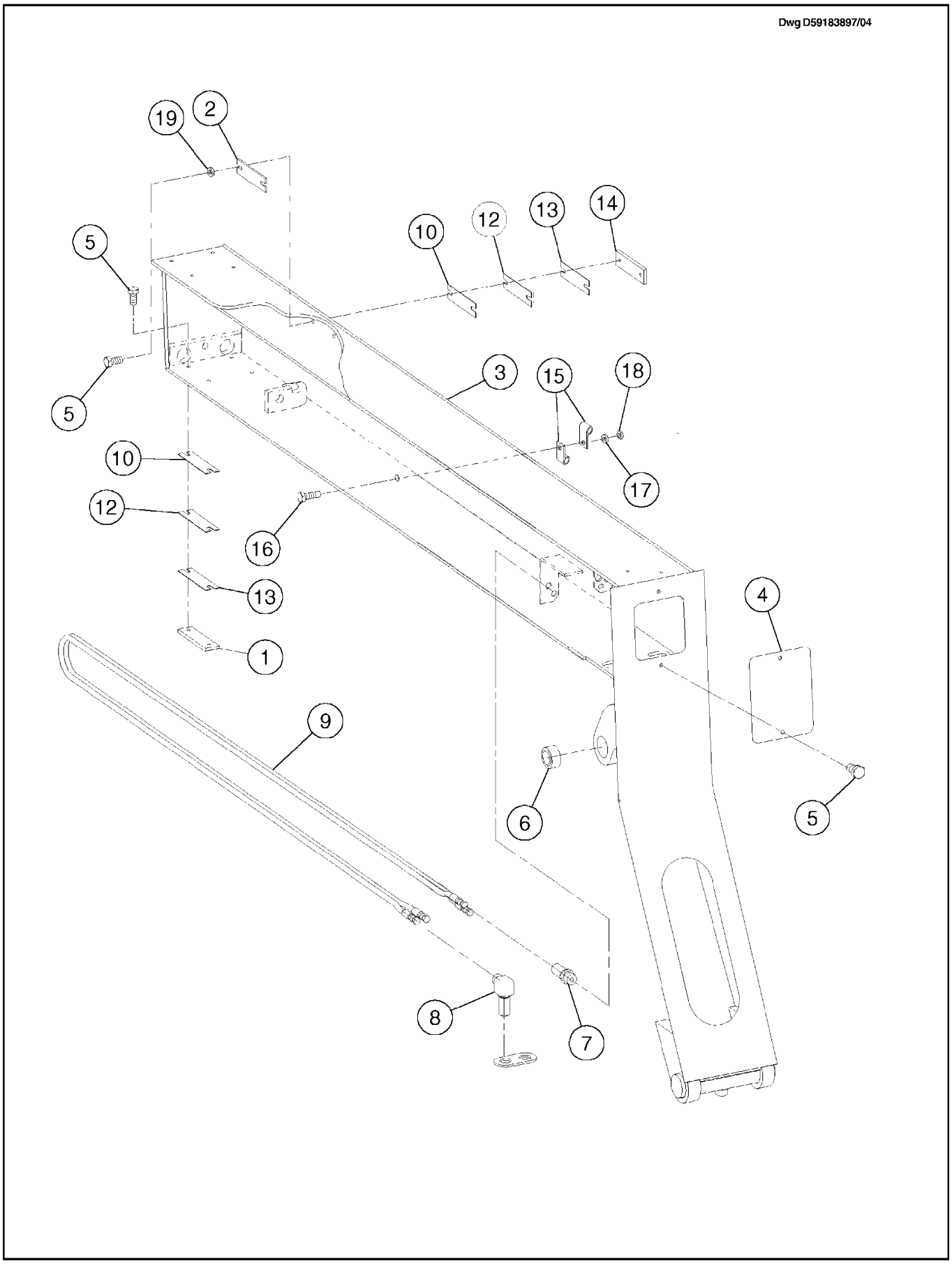
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INTERMEDIATE BOOM SECTION ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59282566		
1	13158019	Hose Sheave	1	
2	**NSVA**	**Intermediate Boom Chain Sheave Assembly**	**1**	**See Section - F.8**
3	59157099	Block	2	
8	95919593	HHCS	6	1/2-13 x 2
9	96726328	SHCS	4	M10-1.5 x 25
10	96702279	HHCS	12	M10 x 20
11	59100941	Shim Plate	12	1.52mm
12	13156799	Wear Pad	6	
13	13243639	Wear Pad	2	
14	59115873	Shim Plate	4	1.52mm
16	95223392	External Snap Ring	1	
17	13183074	Finger	1	
18	96702774	HHCS	8	M10 x 25
19	95223301	Retaining Ring	1	
20	13187406	Chain Sheave Pin	1	
21	13184080	Pin	1	
22	13183967	Intermediate Boom	1	
23	95208971	Grease Fitting	1	
24	13183066	Bushing	1	
25	59135194	Shim Plate	2	0.76mm
26	59136804	Shim Plate	4	0.38mm
27	59116640	Decal: ABCD	1	
28	59116657	Decal: EFG	1	
29	96701479	HHCS	12	M10 x 16
30	59182196	Wear Pad	6	

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INNER BOOM SECTION ASSEMBLY



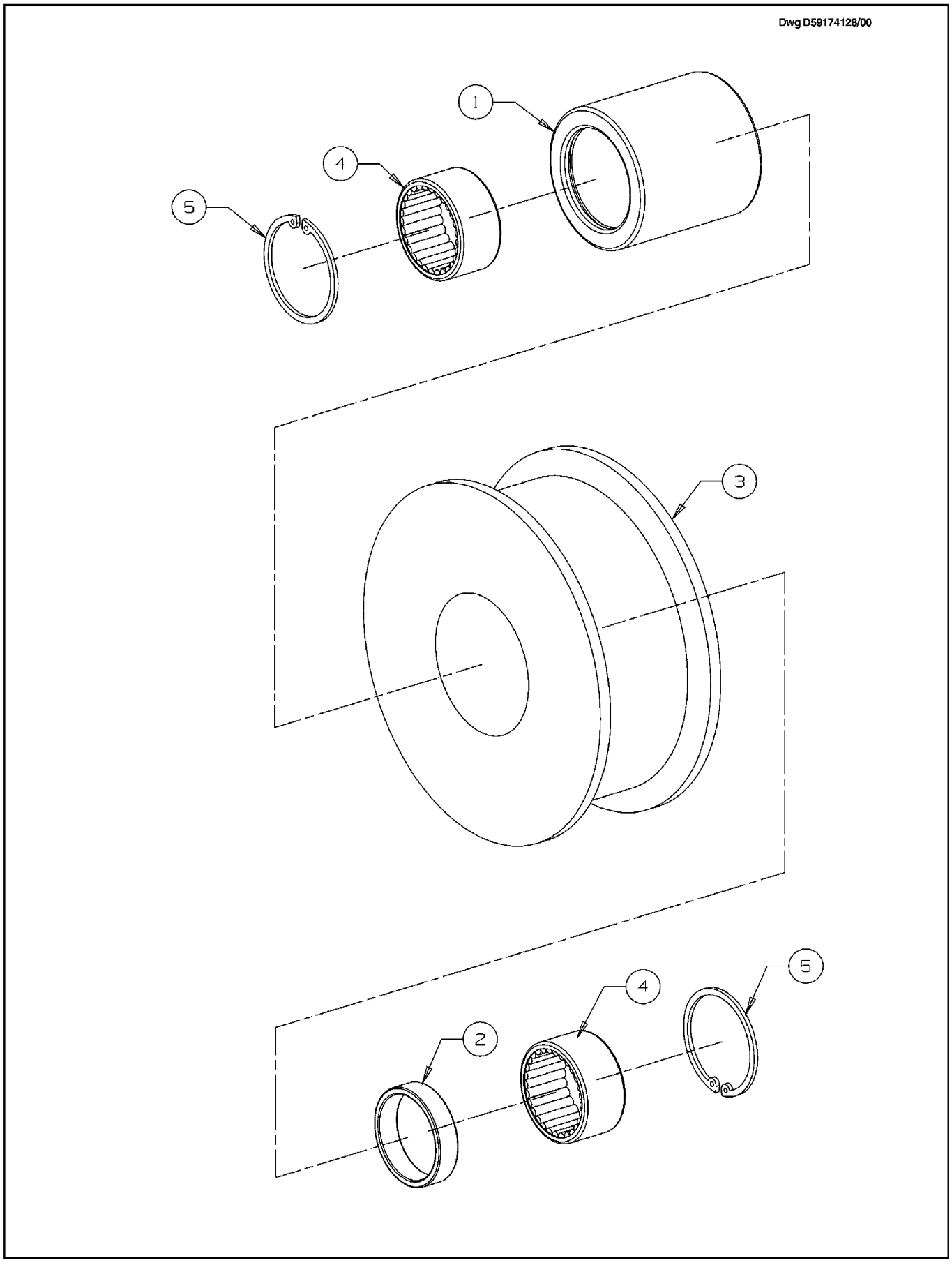
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INNER BOOM SECTION ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13163159		
1	13156799	Wear Pad	4	
2	59116491	Spacer Plate	2	
3	13166228	Inner Boom	1	
4	59101527	Boom Cover Plate	1	
5	96702279	HHCS	14	M10 x 20
6	58951674	Spherical Bearing	1	
7	59947044	Fitting	2	
8	54503644	Adapter	2	
9	59286047	Hose Assembly	2	352.0"
10	59100941	Shim Plate	2	1.52mm
12	59135194	Shim Plate	2	0.76mm
13	59136804	Shim Plate	4	0.38mm
14	59182196	Wear Pad	2	
15	95301867	Clamp	2	
16	96701917	HHCS	1	M10 x 30
17	59565036	Hardened Flatwasher	1	0.40 x 0.81 x 0.19
18	96704614	Nut	1	M10 x 1.5
19	96741046	Flatwasher	4	M10

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CROWD CYLINDER CHAIN SHEAVE ASSEMBLY



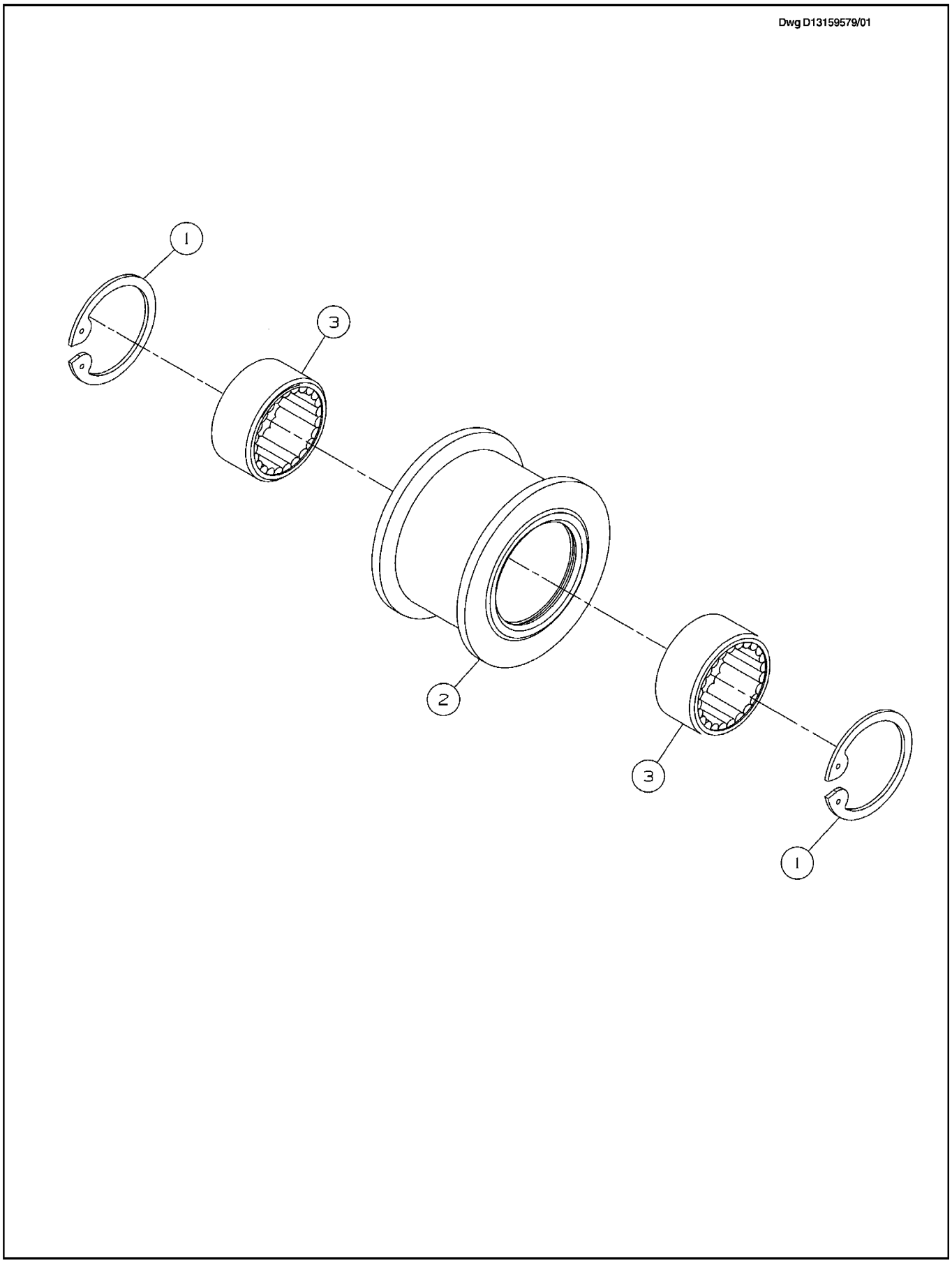
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CROWD CYLINDER CHAIN SHEAVE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59169979		
1	59169938	Bushing	1	
2	59169946	Spacer	1	
3	59169953	Chain Sheave	1	
4	59169961	Bearing	2	
5	95325882	Snap Ring	2	

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INTERMEDIATE BOOM CHAIN SHEAVE ASSEMBLY



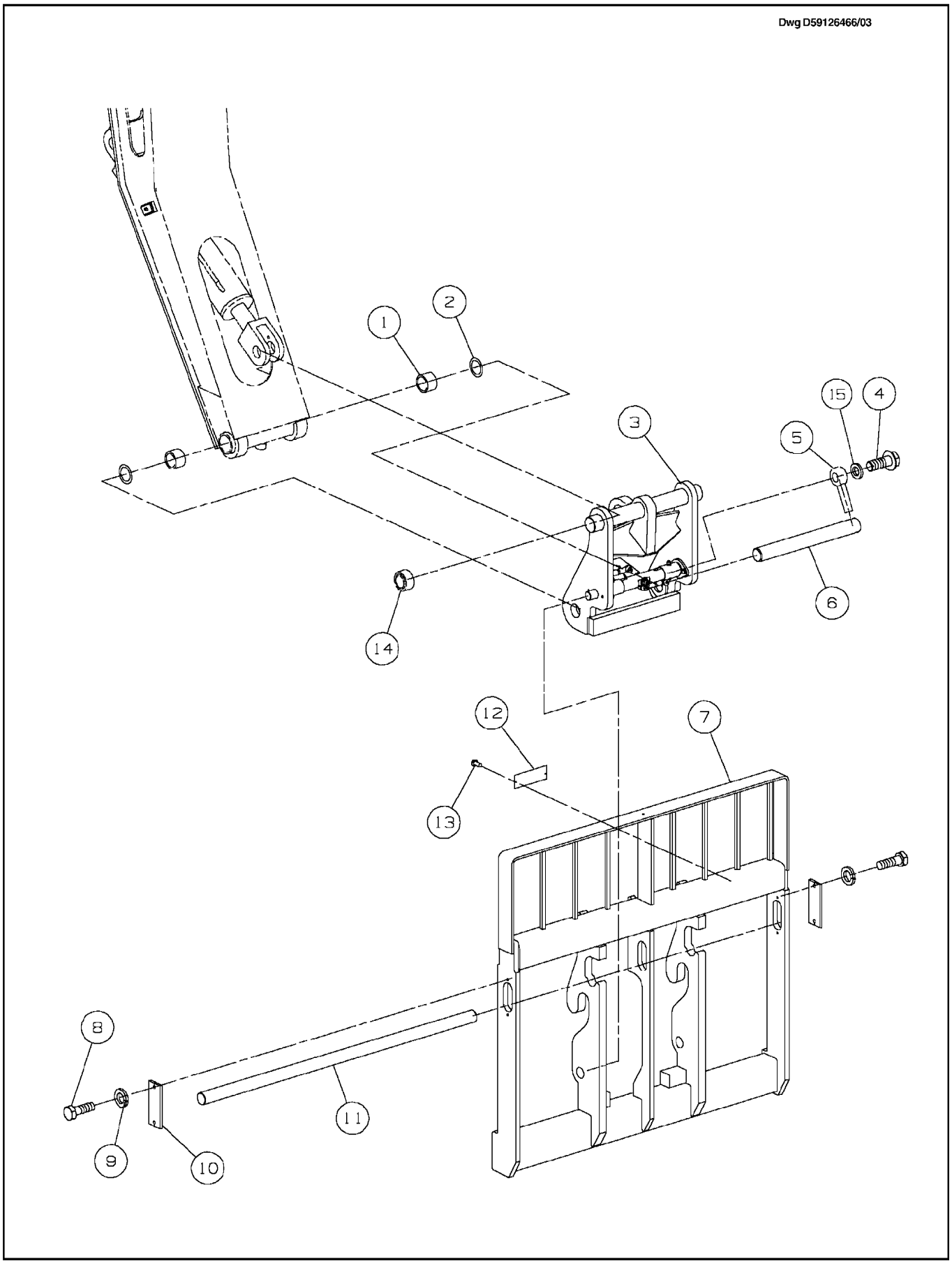
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INTERMEDIATE BOOM CHAIN SHEAVE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59297812		
1	95222964	Snap Ring	2	
2	59297804	Chain Sheave	1	
3	54607296	Bearing	2	

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QUICK-ATTACH CARRIAGE INSTALLATION



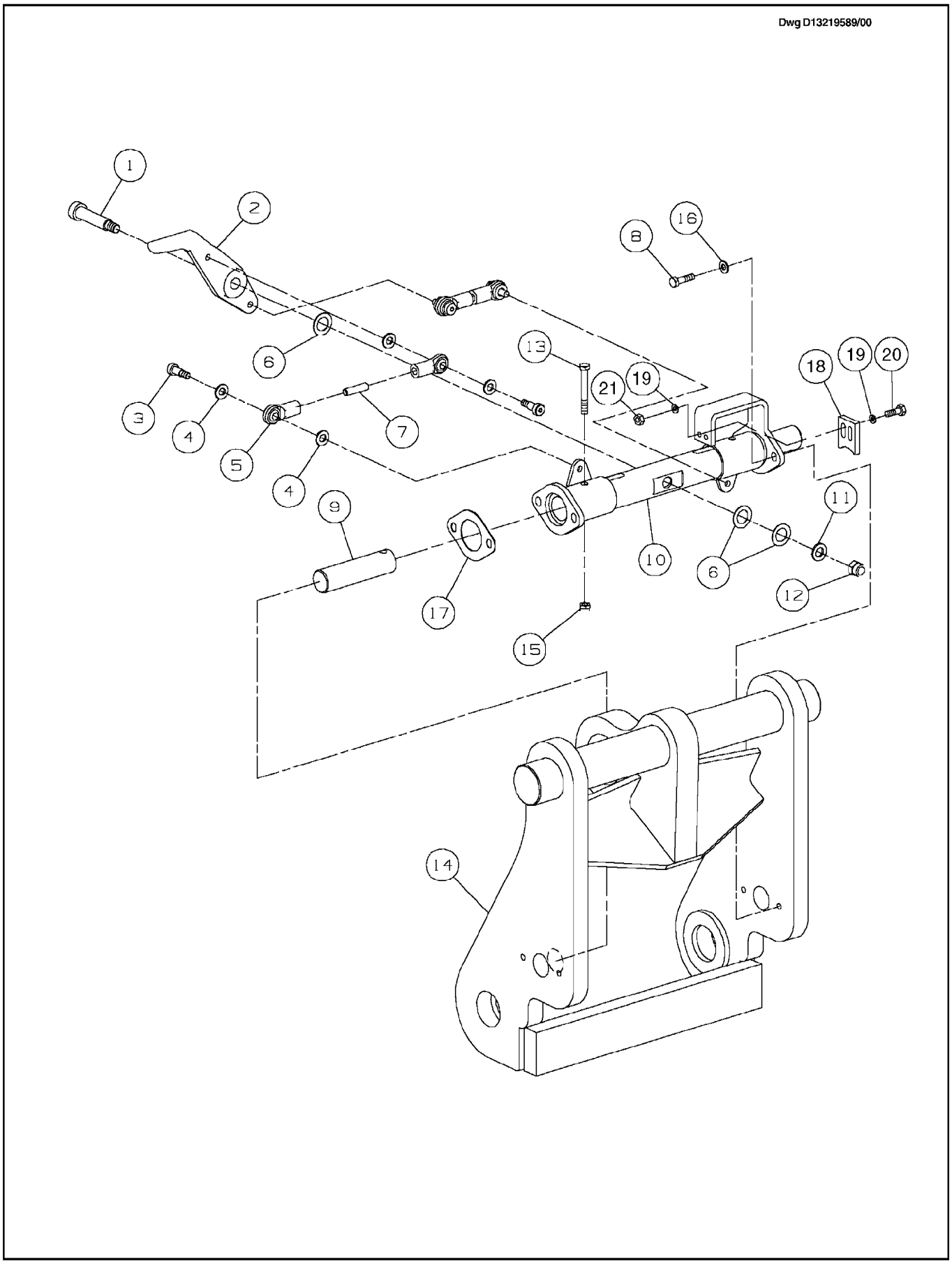
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QUICK-ATTACH CARRIAGE INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59158469, 59299370, 59299321 & 59295139		
1	59454215	Inner Bearing	2	
2	59455766	Thrust Washer	2	
3	**NSVA**	**Quick-Attach Apron Assembly**	**1**	**See Section - F.9**
4	96703111	HHCS	2	M12 x 35
5	59455154	Anchor	2	
6	13232251	Pin	1	
7	59299388	48" Quick-Attach Carriage	1	
-	59299339	60" Quick-Attach Carriage	1	
-	59295147	72" Quick-Attach Carriage	1	
8	96701917	HHCS	4	M10 x 30mm
9	59510065	Lockwasher	4	
10	59451815	Plate	2	
11	58793209	48" Load Arm	1	
-	58793191	60" Load Arm	1	
-	58793183	72" Load Arm	1	
12	13167150	Decal: Carriage	1	
13	59010173	Tack	2	
14	58951674	Spherical Bearing	1	
15	96701545	Hardened Flatwasher	2	M12

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QUICK-ATTACH APRON ASSEMBLY



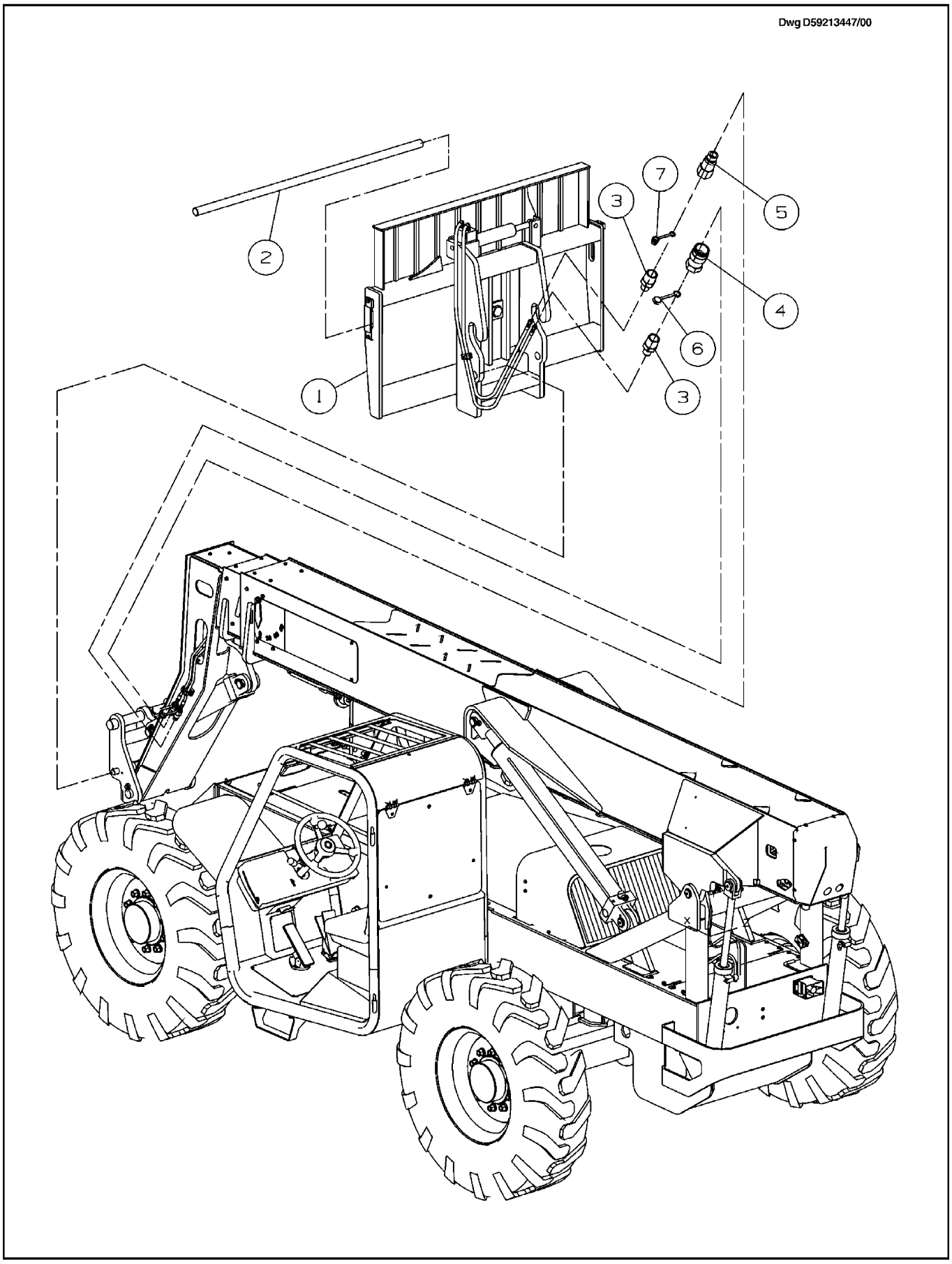
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QUICK-ATTACH APRON ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13219597		
1	96741137	Shoulder Screw	1	M16 x 60mm
2	59129593	Handle	1	
3	96728233	Shoulder Screw	4	M8-1.25 x 16
4	96741046	Flatwasher	8	M10
5	59101774	Rod End	4	M10-1.5
6	59454991	Thrust Washer	3	
7	13161872	Threaded Rod	2	
8	96705587	HHCS	4	M8 x 30mm
9	59101758	Pin	2	
10	13199393	Apron Handle	1	
11	96738596	Hardened Flatwasher	1	M12
12	96704622	Locknut	1	M12
13	96705140	HHCS	2	M8 x 65mm
14	13187364	Quick-Attach Apron	1	
15	96704606	Locknut	2	M8
16	96741038	Flatwasher	4	M8
17	59181248	Shim	2	1.0mm
18	13195862	Rubber Stop Pin	1	
19	59889162	Hardened Washer	4	
20	96701461	HHCS	2	M6 x 25
21	96704598	Hex Locknut	2	M6

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SIDE-TILT CARRIAGE INSTALLATION - OPTIONAL



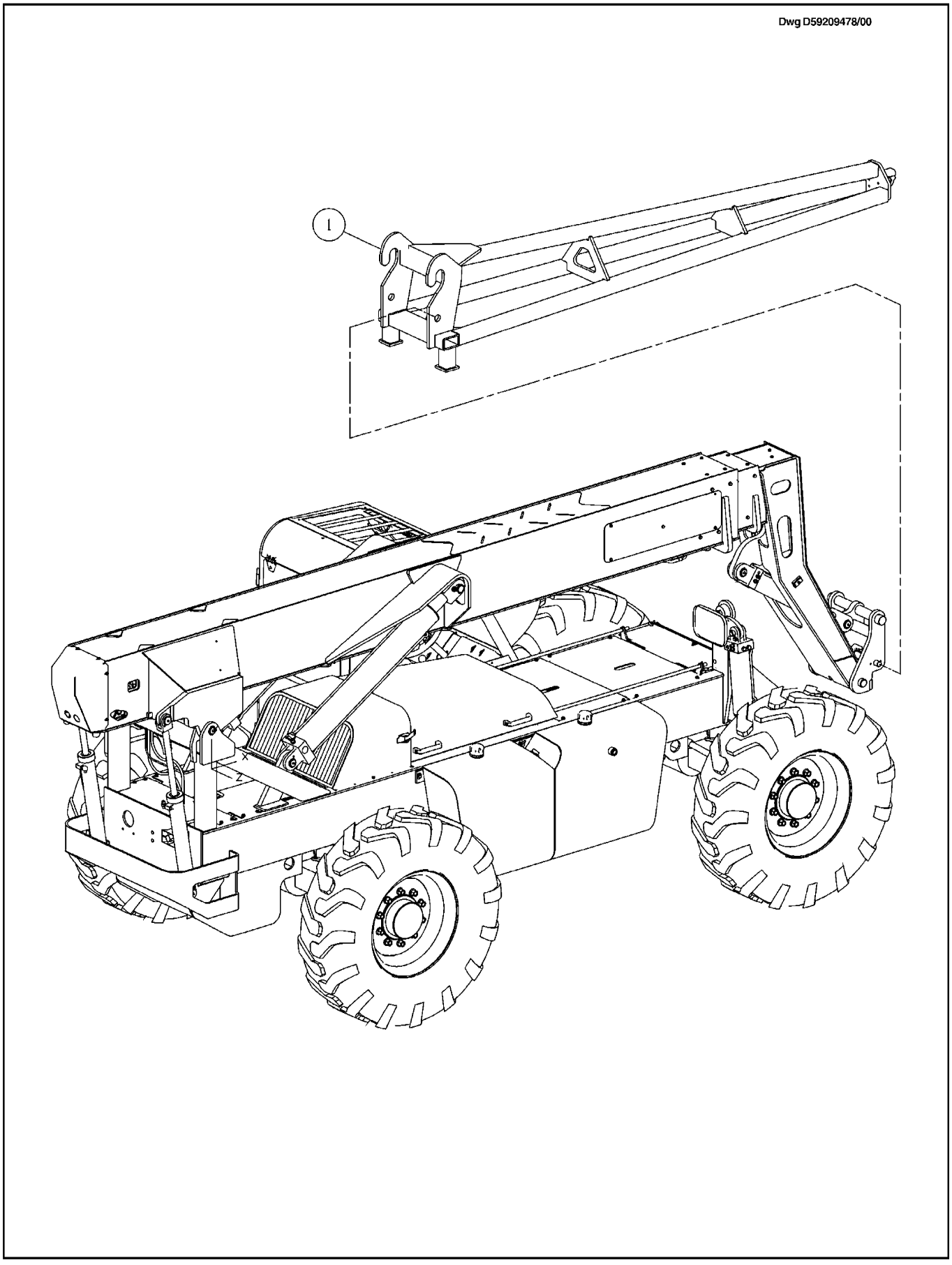
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SIDE-TILT CARRIAGE INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59149385 & 59149419		
1	**59199687**	**48" Side Tilt Quick-Attach Carriage**	**1**	**See Breakdown - I.7**
-	**59199695**	**60" Side Tilt Quick-Attach Carriage**	**1**	**See Breakdown - I.8**
2	59211672	48" Load Arm	1	
-	58793191	60" Load Arm	1	
3	95231031	Adapter	2	
4	59096735	Coupler	1	
5	59096743	Nipple	1	
6	59096750	Coupler Dust Cap	1	
7	59096768	Nipple Dust Cap	1	

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TRUSS BOOM INSTALLATION - OPTIONAL



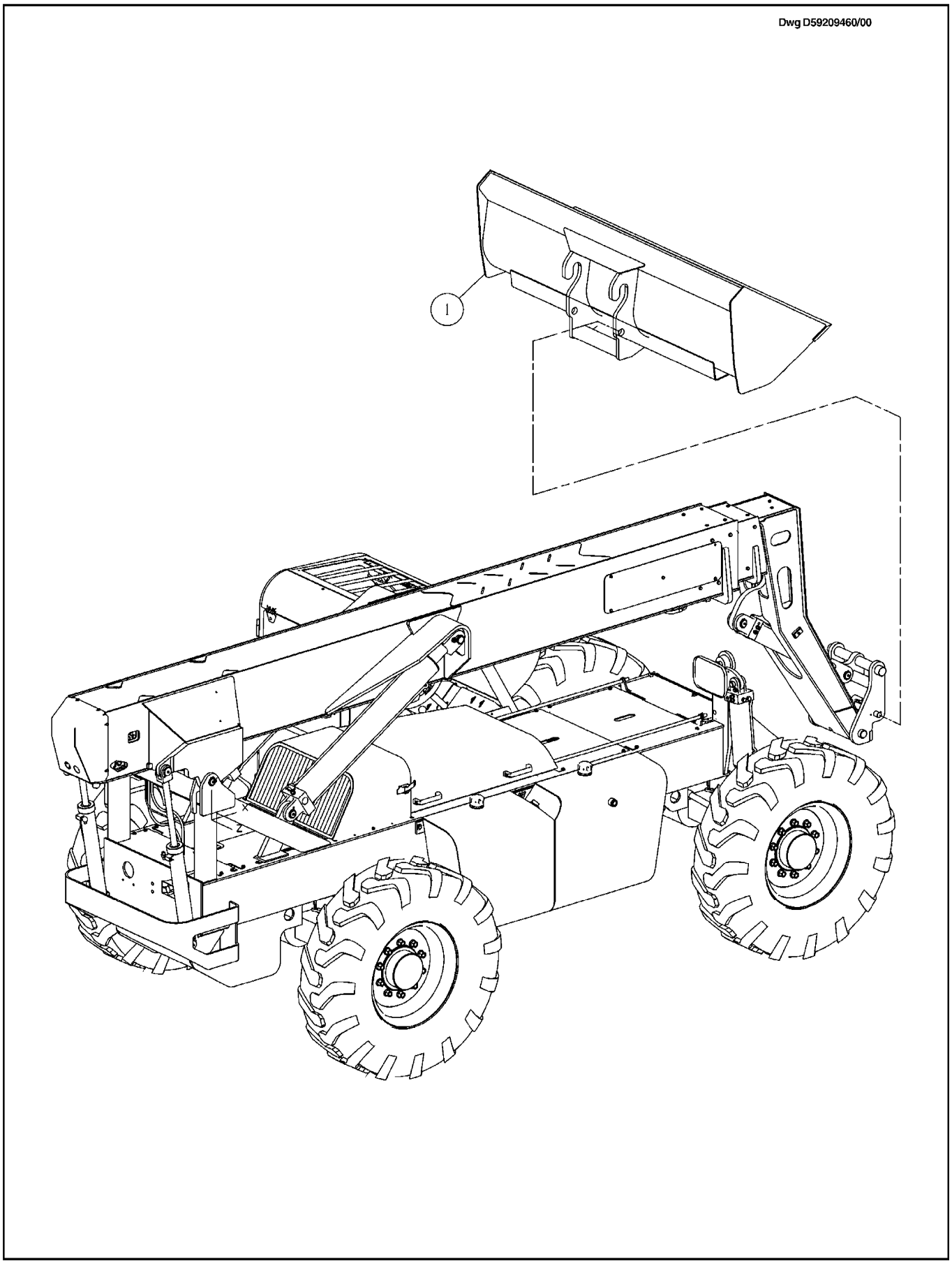
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TRUSS BOOM INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59149443		
1	59199513	12' Truss Boom	1	

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LOAD BUCKET INSTALLATION - OPTIONAL



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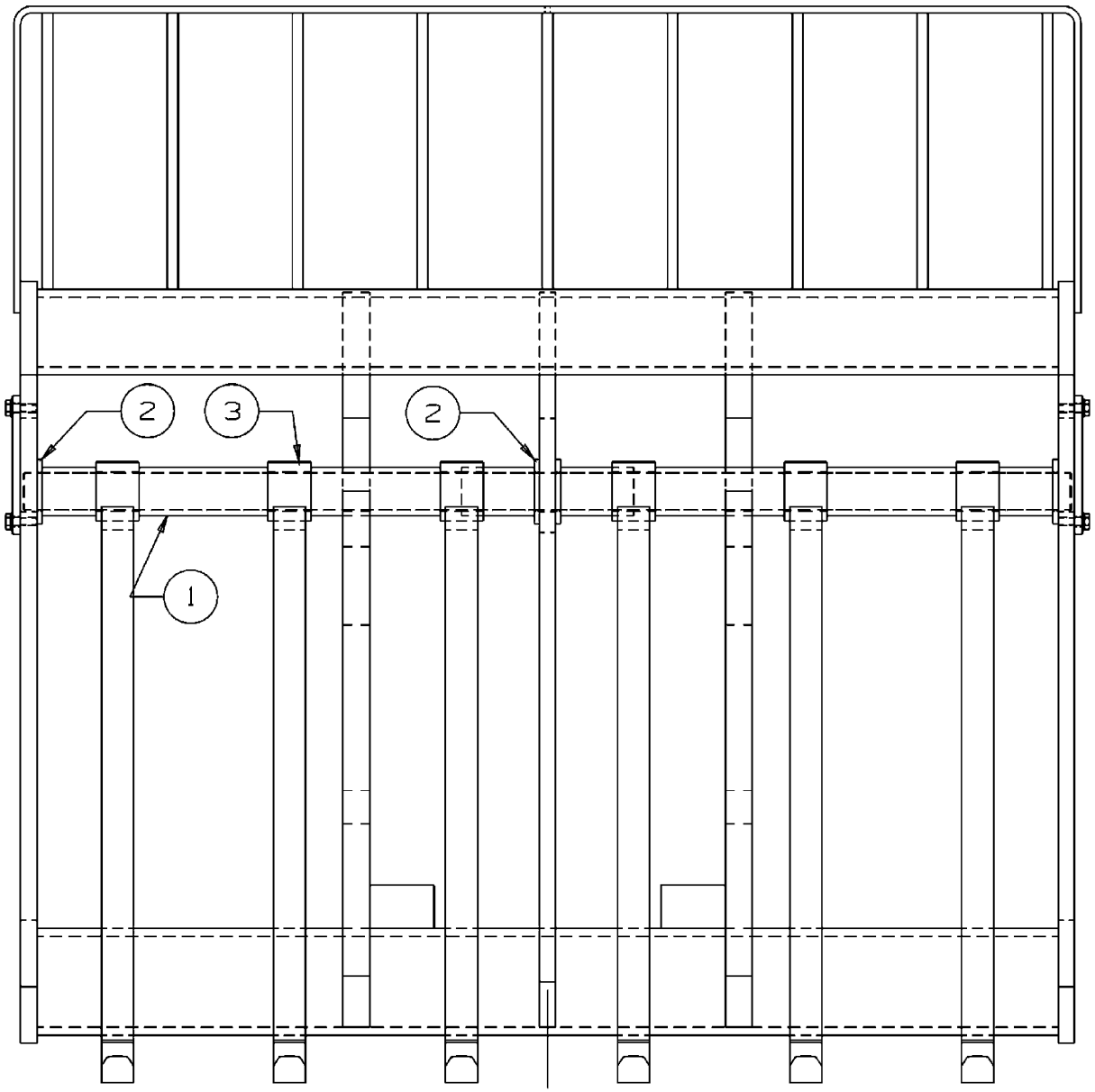
LOAD BUCKET INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59149476		
1	59149484	1.75 Cubic Yard Bucket	1	

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BLOCK-TYPE FORKS INSTALLATION

Dwg D59270314/00



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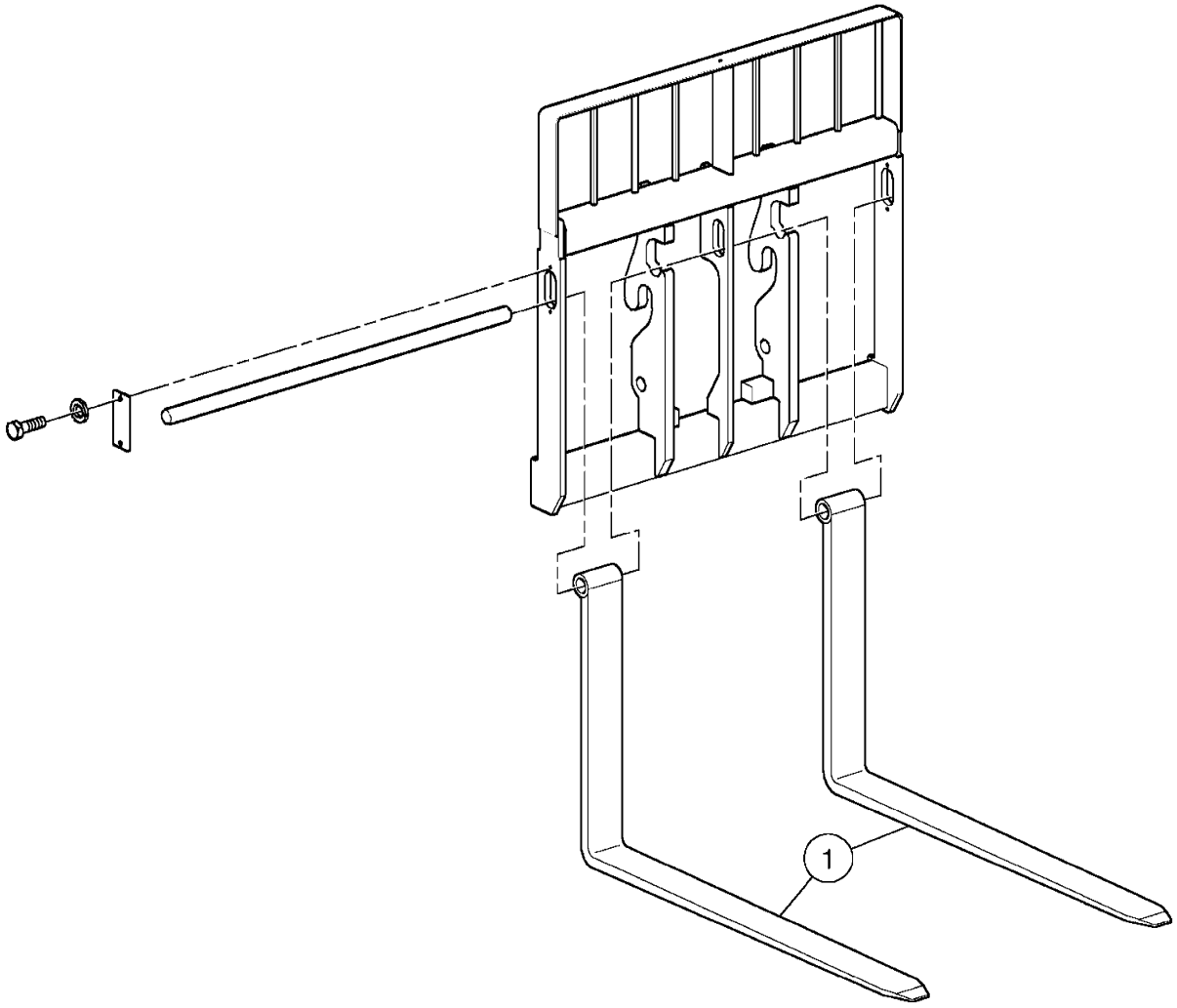
BLOCK-TYPE FORKS INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 58851288 & 58851296		
1	59493304	Hose - 48" Carriage	2	2.490 Ft.
-	59493304	Hose - 60" Carriage	3	3.486 Ft.
2	59491936	Washer	4	
3	59461152	Block-type Fork	6	

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TAPERED FORKS INSTALLATION

Dwg D59460527/00



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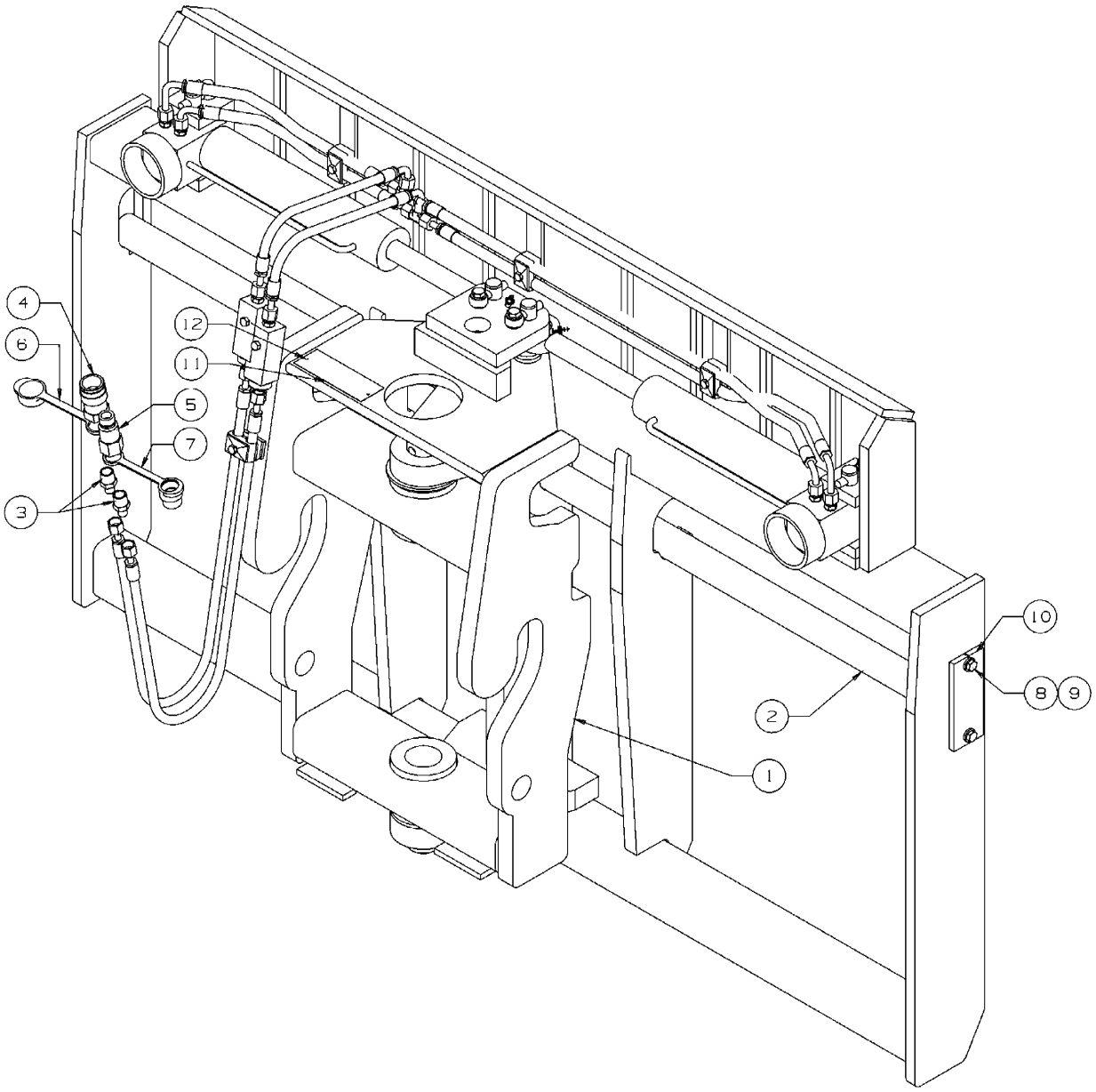
TAPERED FORKS INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59460527,59474015,59248146,59248153,13170642,13170659,13198858 &13198866		
1	59450189	48" Pin-Type Fork	2	2.00 x 5 x 48"
-	59463406	60" Lumber Fork	2	2.00 x 5 x 60"
-	59272583	48" Tapered Fork	2	2.25 x 5 x 48"
-	59272591	60" Tapered Fork	2	2.25 x 5 x 60"
-	59472621	48" Tapered Fork	2	2.00 x 4 x 48"
-	13170667	60" Tapered Fork	2	2.00 x 4 x 60"
-	13198833	48" Fully Tapered Fork	2	1.75 x 5 x 48"
-	13198841	60" Fully Tapered Fork	2	1.75 x 5 x 60"

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SWING CARRIAGE INSTALLATION - OPTIONAL

Dwg D13170204/00



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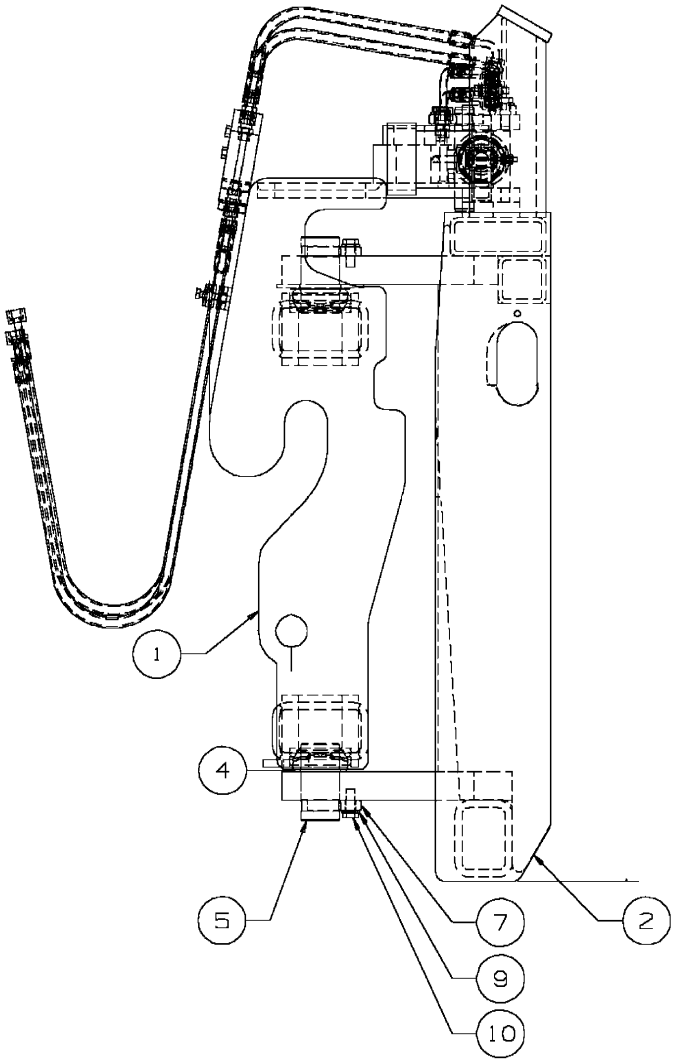
SWING CARRIAGE INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13170204		
1	**NSVA**	**Swing Carriage Assembly - Optional**	**1**	**See Section - F.16**
2	58793183	Load Arm	1	72.0"
3	95231031	Adapter	2	
4	59096735	Quick Disconnect Coupler	1	
5	59096743	Quick Disconnect Nipple	1	
6	59096750	Quick Connect Coupler Dust Cap	1	
7	59096768	Quick Connect Nipple Dust Cap	1	
8	96701917	HHCS	4	M10 x 30
9	95931226	Lockwasher	4	1/2
10	59451815	Plate	2	
11	13167150	Nameplate	1	
12	59010173	Metal Tack	2	

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SWING CARRIAGE ASSEMBLY - OPTIONAL - SHEET 1 OF 2

Dwg D13170196/01/01



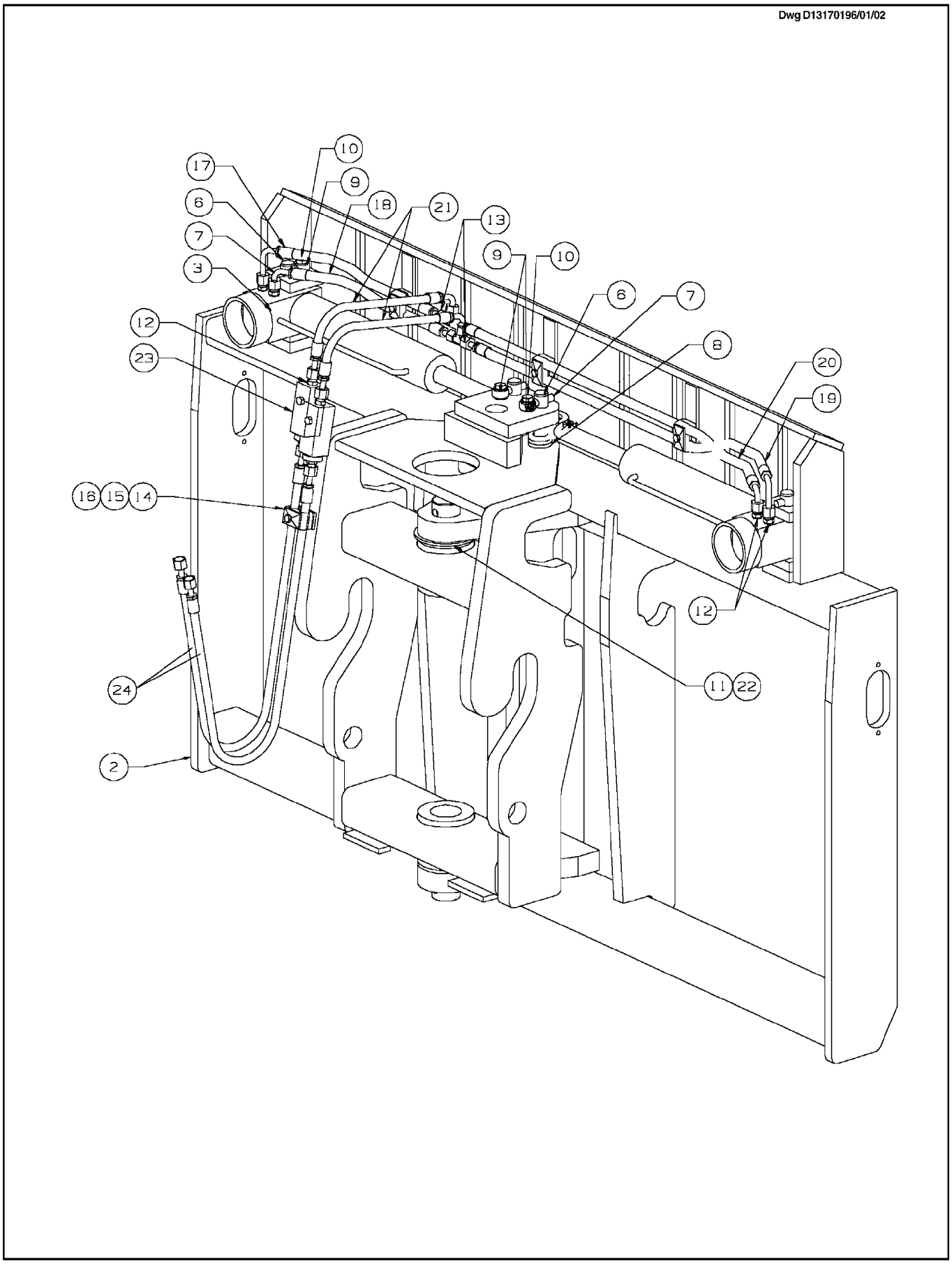
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SWING CARRIAGE ASSEMBLY - OPTIONAL - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13170196		
1	59300129	Carriage Support	1	
2	59283481	Swing Carriage	1	
4	50275395	Bearing	2	
5	59283598	Pivot Pin	2	2.0
7	59455154	Anchor	6	
9	96738596	Hardened Flatwasher	8	M12
10	96702808	HHCS	6	M12-1.75 x 30

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SWING CARRIAGE ASSEMBLY - OPTIONAL - SHEET 2 OF 2



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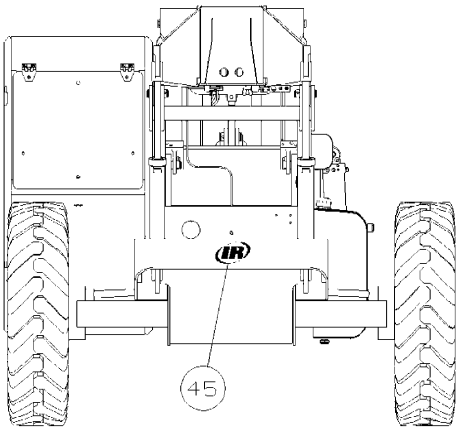
SWING CARRIAGE ASSEMBLY - OPTIONAL - SHEET 2 OF 2

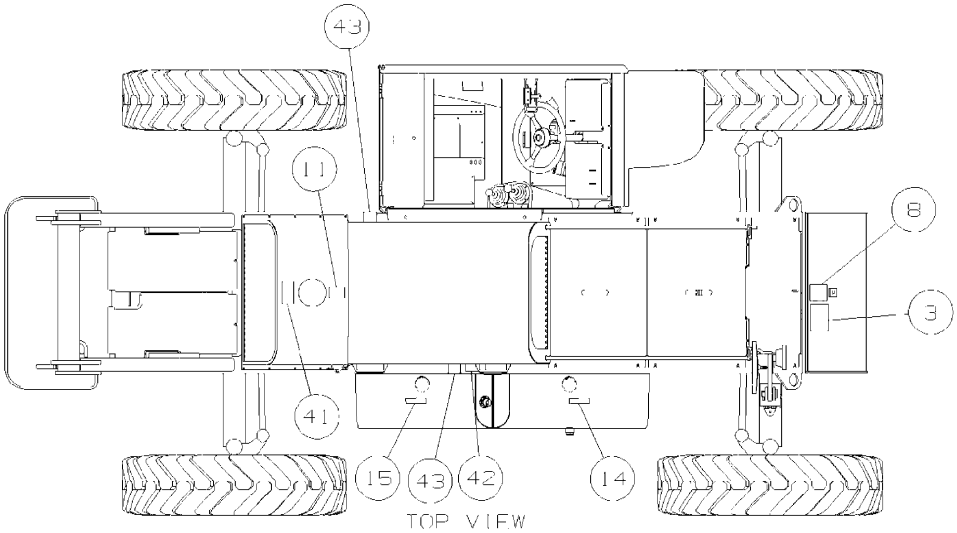
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	59283481	Swing Carriage	1	
3	13170147	Hydraulic Cylinder	2	
6	59283606	Pivot Pin	4	1.0
7	59455154	Anchor	6	
8	59630798	Flatwasher	2	
9	96738596	Hardened Flatwasher	8	M12
10	96702808	HHCS	6	M12-1.75 x 30
11	95922175	Flatwasher	1	
12	95365078	Adapter	8	
13	95489043	Adapter, Male Tee	2	
14	59929026	Insert Clamp	8	
15	59583450	Cover Plate	4	
16	96719786	HHCS	4	M8 x 40
17	54638598	Hose Assembly	1	21.0"
18	54638564	Hose Assembly	1	21.0"
19	54638606	Hose Assembly	1	34.0"
20	54638572	Hose Assembly	1	33.0"
21	13106489	Hose Assembly	2	30.0"
22	59456236	Thrust Washer	1	
23	13170188	Flow Control Valve	2	
24	13170212	Hose Assembly	2	43.0"

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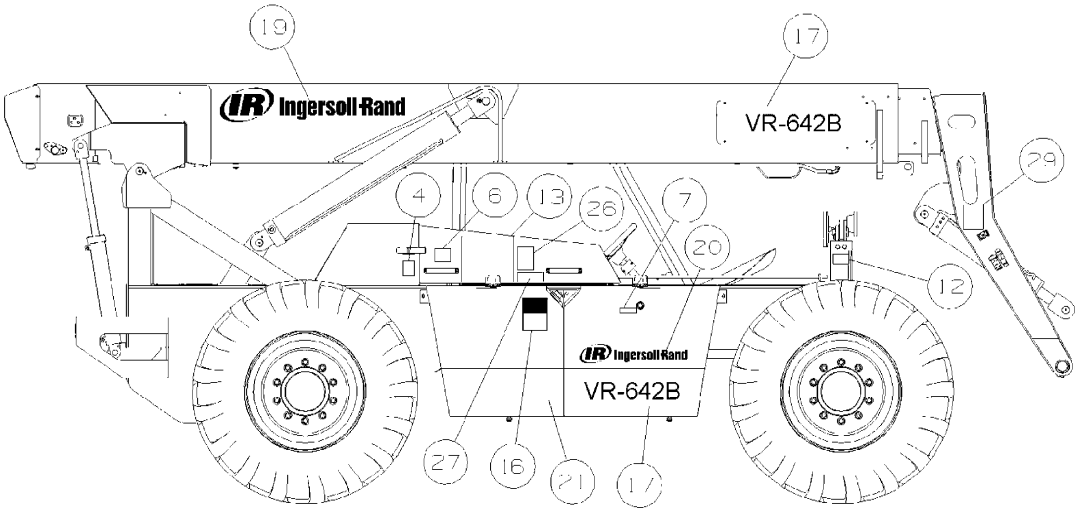
DECAL INSTALLATION - SHEET 1 OF 3

Dwg D59282343/00/01





TOP VIEW
SHOWN W/O BOOM



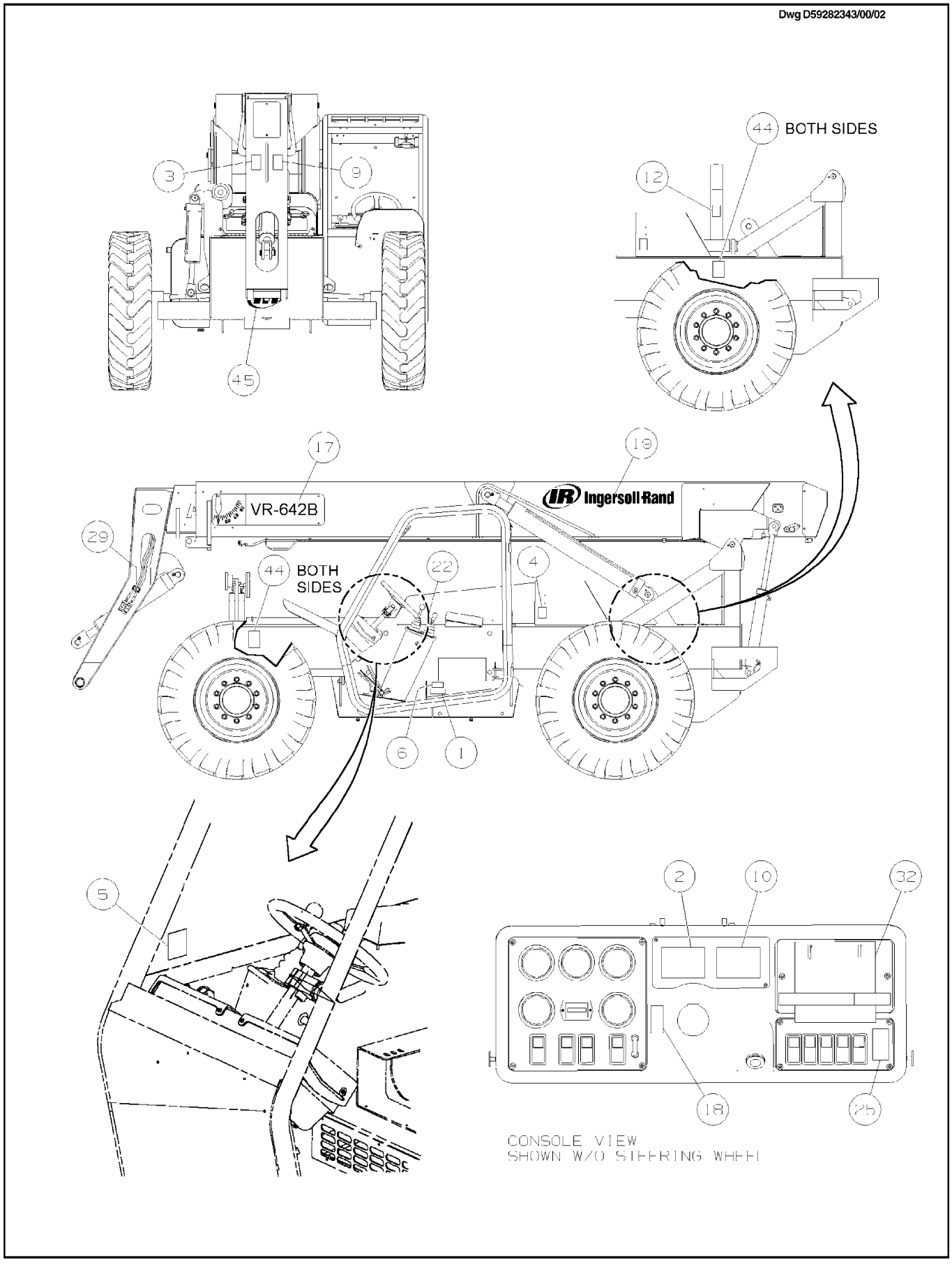
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DECAL INSTALLATION - SHEET 1 OF 3

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59282335 & 59199646		
3	58965583	Decal: Falling Object	2	
4	59132142	Decal: Rotating Fans and Belts Warning	2	
6	59132118	Decal: Operation Warning	2	
7	59087361	Decal: Hyd Oil Level	1	
8	58965526	Decal: Crush Warning	1	
11	59132134	Decal: Pressure Hazard Warning	1	
12	59455097	Decal: Frame Tipping Warning	1	
13	59282418	Decal: Lubrication Chart	1	
14	59087551	Decal: Hydraulic Oil	1	
15	59087569	Decal: Diesel Fuel	1	
16	13220157	Decal: Machine Runover	1	
17	59187526	Decal: VR-642B	3	
19	13163324	Decal: Signature	2	
20	13163340	Decal: Signature	1	
21	59132191	Stripe	1	
26	59179457	Decal: Rollover-Tire	1	
27	13252655	Decal: Tire Inflation	1	
29	58851551	Decal: Carriage Shift	2	
41	59147314	Decal: Radiator Fill	1	
42	59048926	Decal: Unmetered Ether	1	
43	59166231	Decal: Moving Machine	2	
45	54612494	Decal: I-R Corporate Monogram	2	

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DECAL INSTALLATION - SHEET 2 OF 3



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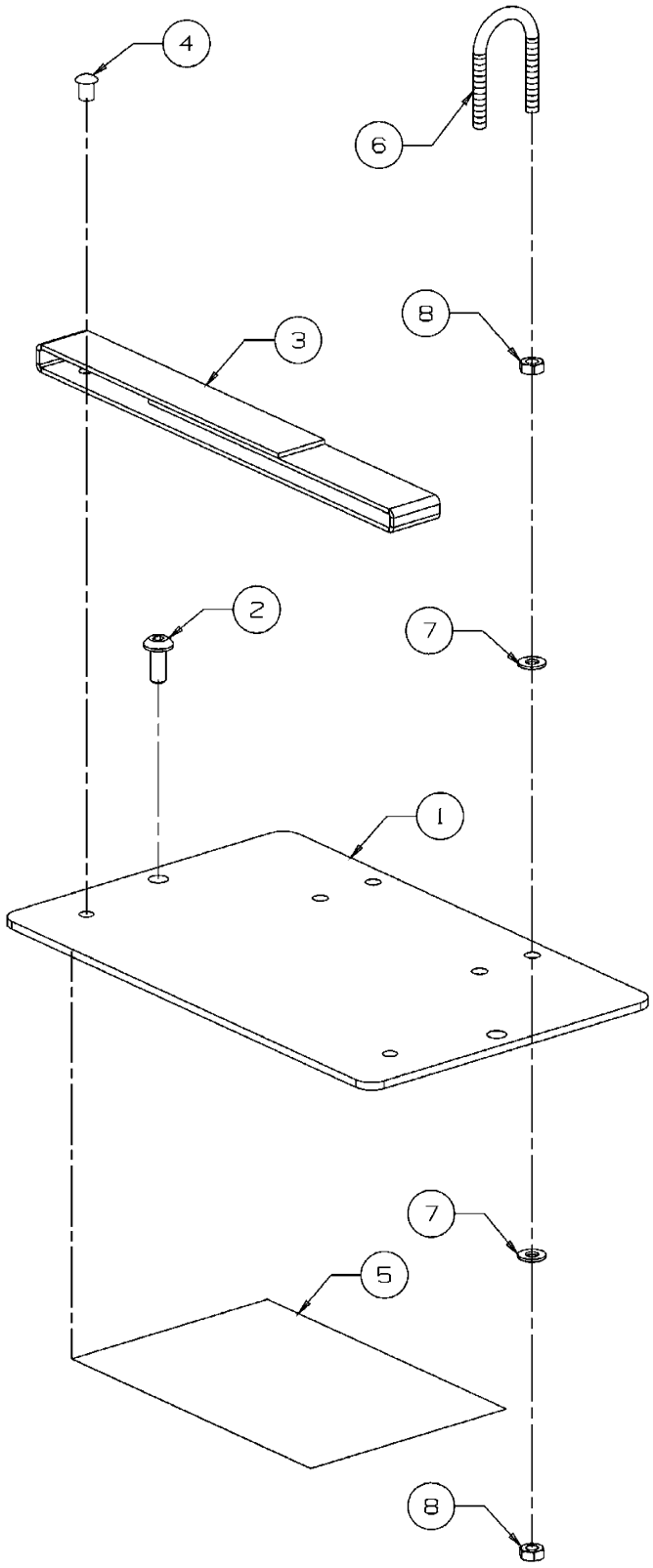
DECAL INSTALLATION - SHEET 2 OF 3

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	59153312	Decal: Osha Notice	1	
2	54687397	Decal: Rollover Warning	1	
3	58965583	Decal: Falling Object Hazard Warning	2	
4	59132142	Decal: Rotating Fans and Belts Warning	2	
5	13170493	Decal: No Riders	1	
6	59132118	Decal: Operation Warning	2	
9	58965617	Decal: Falling Off Hazard	1	
10	54687389	Decal: Electrical Hazard	1	
12	59455097	Decal: Frame Tipping Warning	1	
17	59187526	Decal: VR-642B	3	
18	59132084	Decal: F-N-R	1	
19	13163324	Decal: Signature	2	
22	59454769	Decal: Frame Level	1	
25	59131987	Decal: Steering Mode	1	
29	58851551	Decal: Carriage Shift	2	
32	NSS	Load Chart	1	
-	13173869	-Decal: Load Chart - Standard Carriage	1	
-	13173877	-Decal: Load Chart - Tilt Carriage	1	
-	13173885	-Decal: Load Chart - 1.75 Cubic Yard Bucket	1	
-	13173893	-Decal: Load Chart - 12 Ft Truss Boom	1	
-	13243605	-Decal: Load Chart - Swing Carriage	1	
-	**NSVA**	**Fuse Panel Assembly**	**1**	**See Sheet 3**
44	59166314	Decal: Crush Area	4	
45	54612494	Decal: I-R Corporate Monogram	2	
**	13226972	Decal Kit (contains Items 1 thru 29, & 41 thru 45)	1	
**	59947507	Beige Paint	1	Gallon
**	35304286	Beige Paint	1	Spray Can

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DECAL INSTALLATION - SHEET 3 OF 3

Dwg D59186031/00



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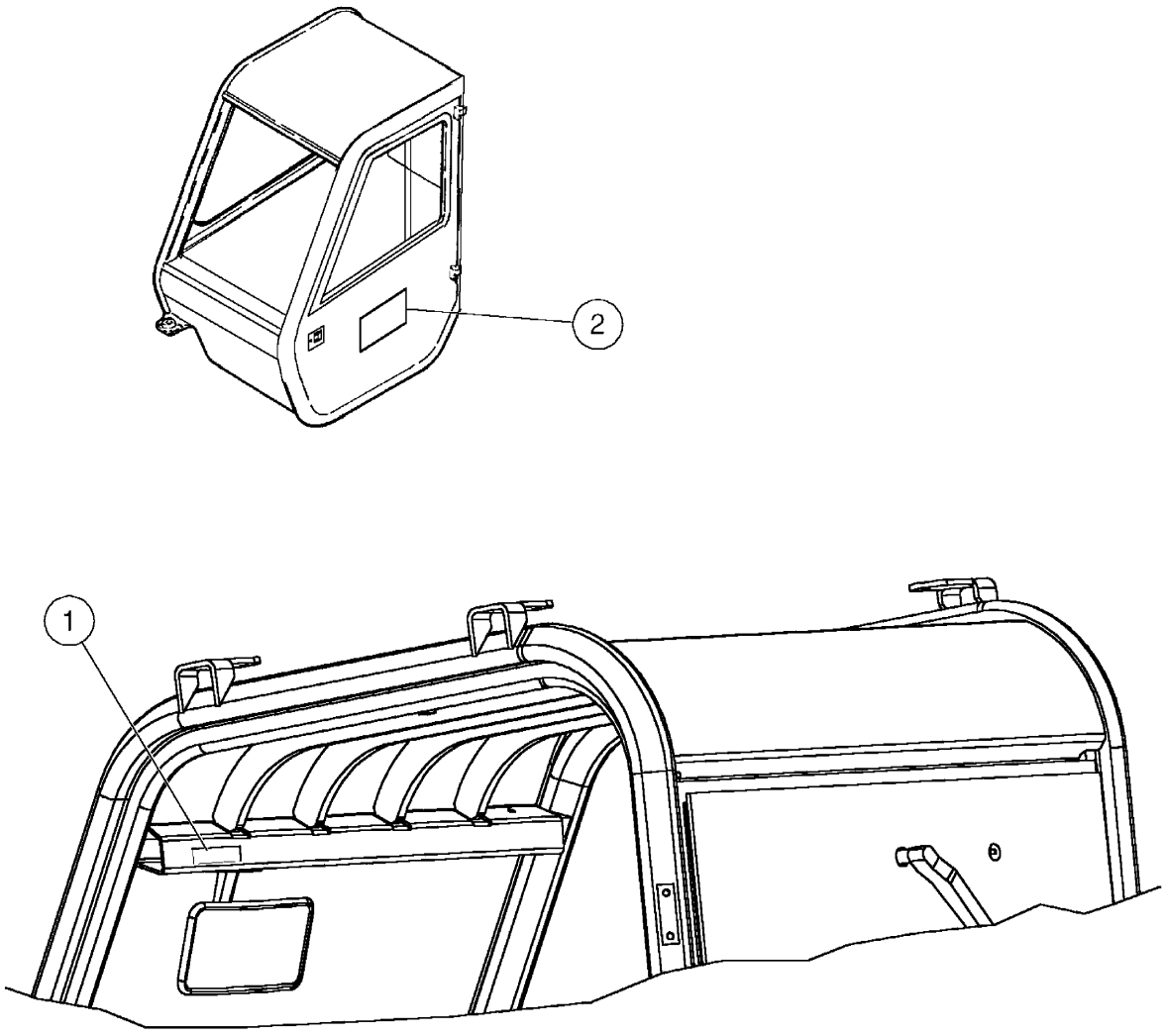
DECAL INSTALLATION - SHEET 3 OF 3

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	59168815	Control Panel Plate	1	
2	59148569	HHCS	2	M5-0.8 x 12
3	59137554	Strap	1	
4	95977047	Rivet	2	5/32
5	59187658	Decal: Fuse Chart	1	
6	59168823	U-bolt	2	
7	96738547	Flatwasher	8	M4
8	96703756	Hex Nut	8	M4

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CAB DECAL INSTALLATION - OPTIONAL

Dwg D13199369/00



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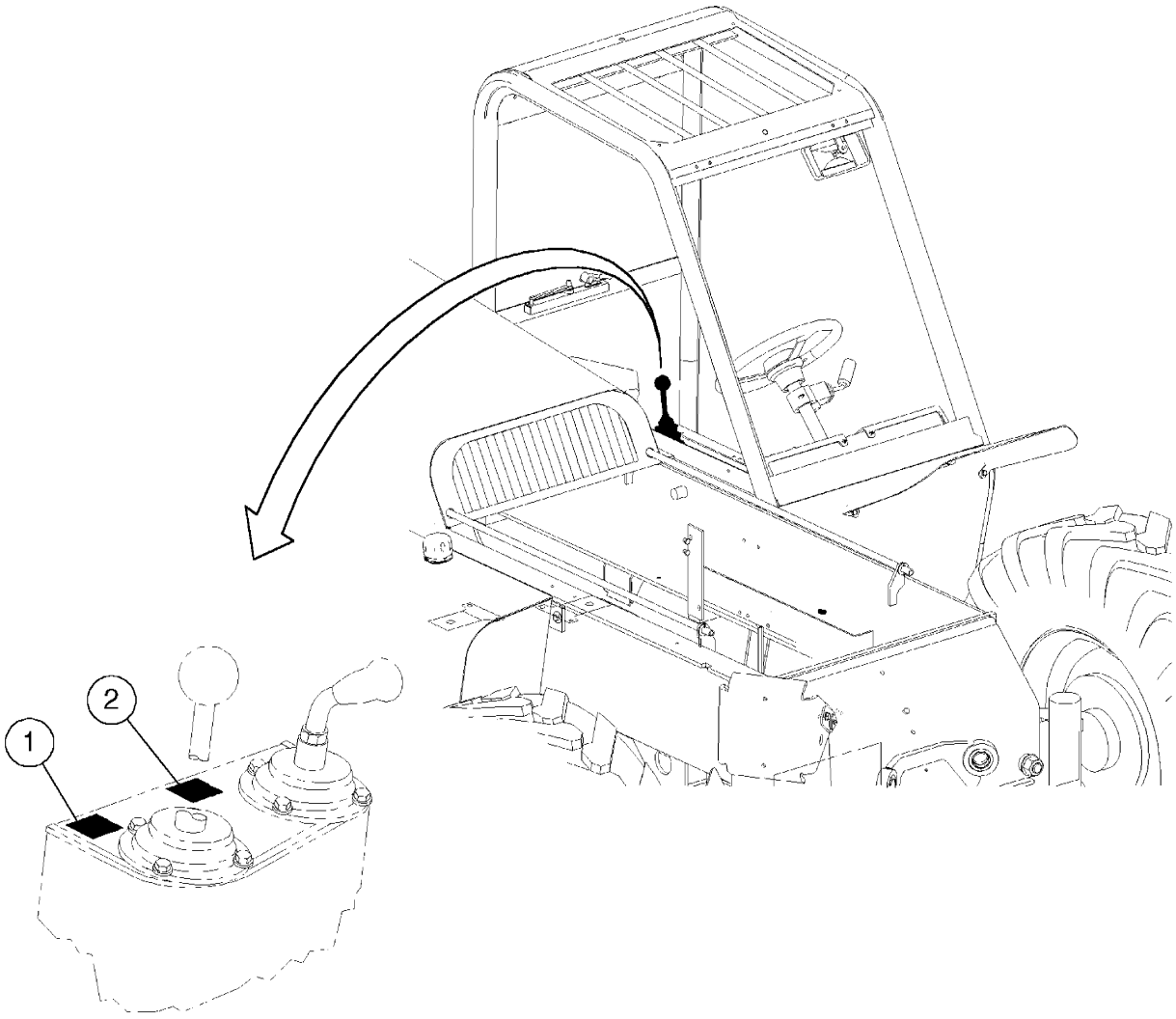
CAB DECAL INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13199369		
1	13199351	Decal: Windshield Wiper	1	
2	54612494	Decal: I-R Corporate Monogram	1	

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DECAL INSTALLATION - DUAL CONTROL JOYSTICK

Dwg D13252143/00



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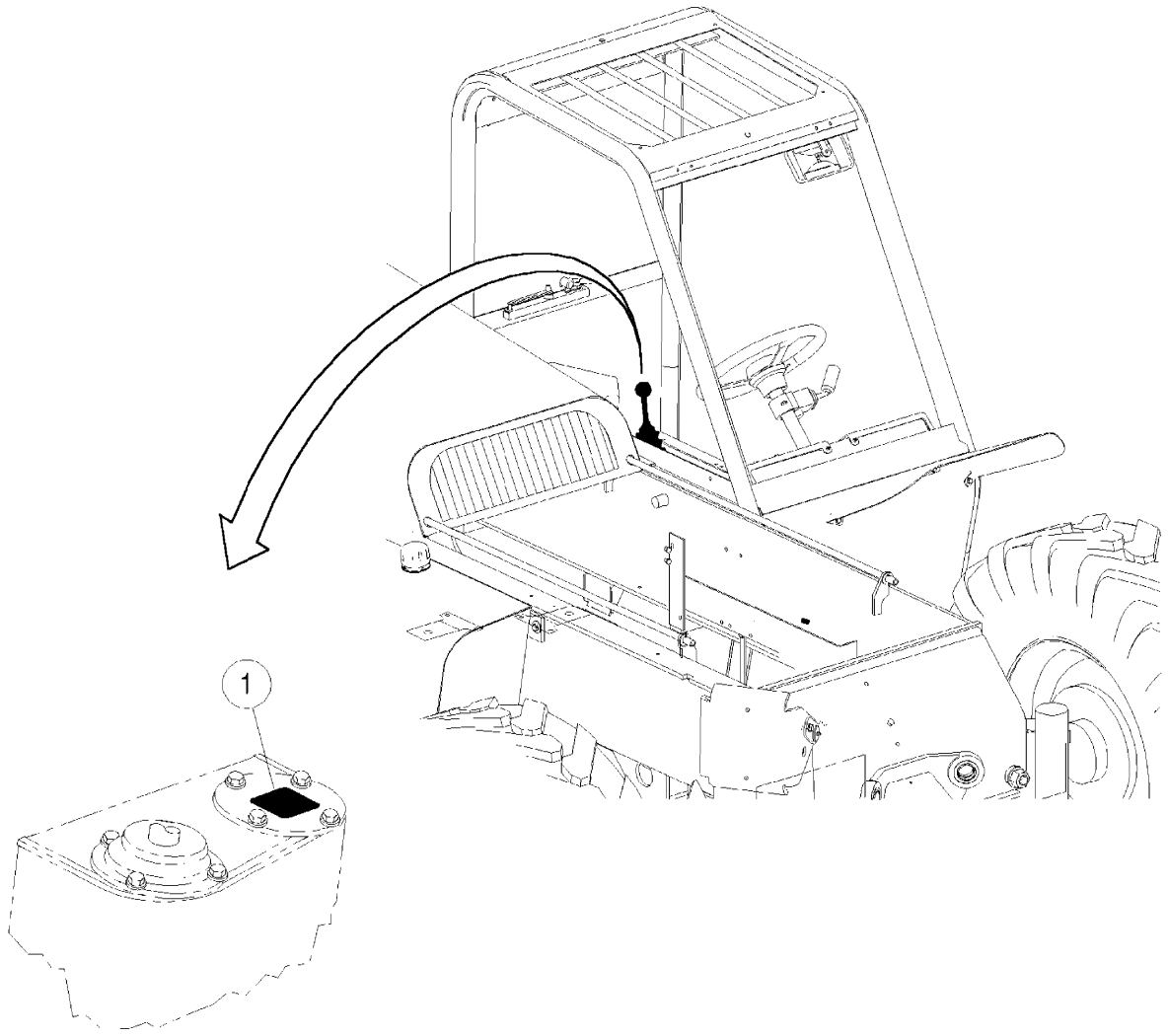
DECAL INSTALLATION - DUAL CONTROL JOYSTICK

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13252143		
1	59131961	Decal: Front Controller	1	
2	59131979	Decal: Rear Controller	1	

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DECAL INSTALLATION - SINGLE CONTROL JOYSTICK

Dwg D13252150/00



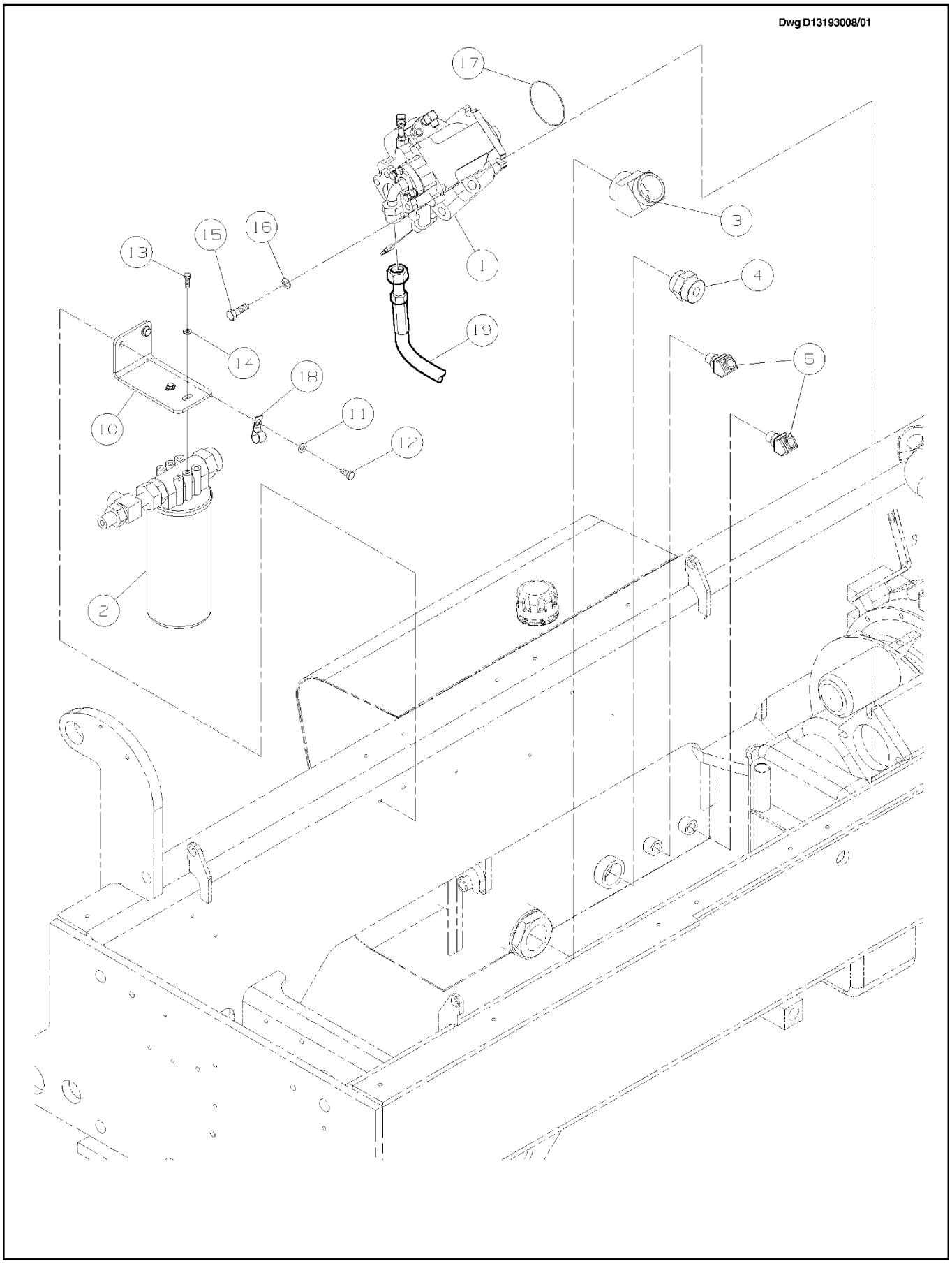
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DECAL INSTALLATION - SINGLE CONTROL JOYSTICK

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13252150		
1	13252127	Decal: Single Joystick	1	

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HYDRAULIC PUMP AND FILTER INSTALLATION



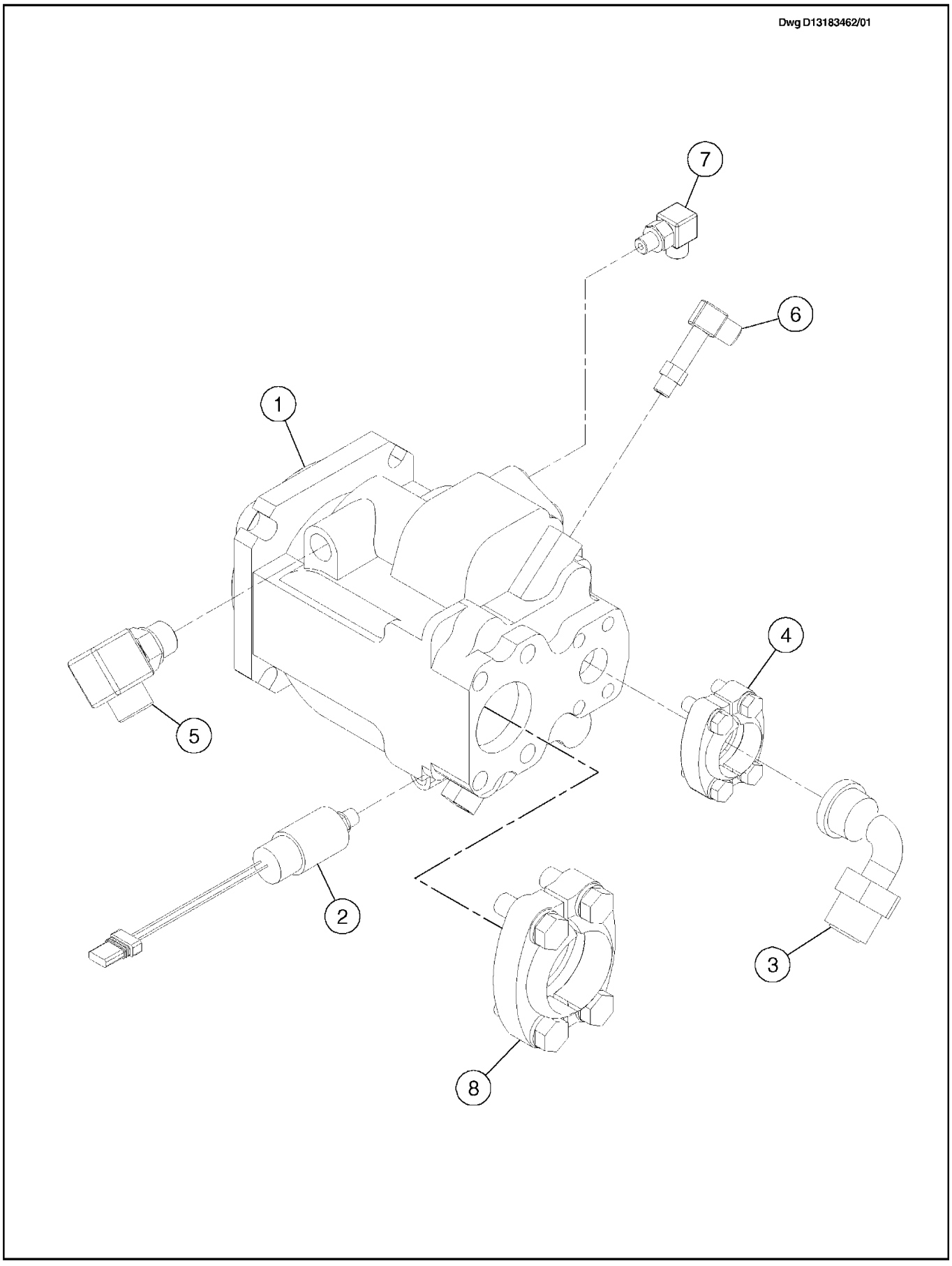
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HYDRAULIC PUMP AND FILTER INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193008		
1	**NSVA**	**Hydraulic Pump Assembly**	**1**	**See Section - H.2**
2	**NSVA**	**Hydraulic Filter Assembly**	**1**	**See Section - H.3**
3	95660601	Elbow	1	
4	59922690	Adapter	1	
5	59922302	Adapter	2	
10	13168570	Hydraulic Mounting Bracket	1	
11	96741046	Flatwasher	2	M10
12	96702279	HHCS	2	M10 x 20
13	95920419	HHCS	2	5/16-18 x .75
14	95922365	Flatwasher	2	5/16
15	95919569	HHCS	2	1/2-13 x 1.50
16	59673137	Washer	2	
17	95988721	O-ring	1	
18	59465641	Clamp	1	
19	**NSVA**	**Hydraulic Pump and Filter Hosing Assembly**	**1**	**See Section - H.4**

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HYDRAULIC PUMP ASSEMBLY



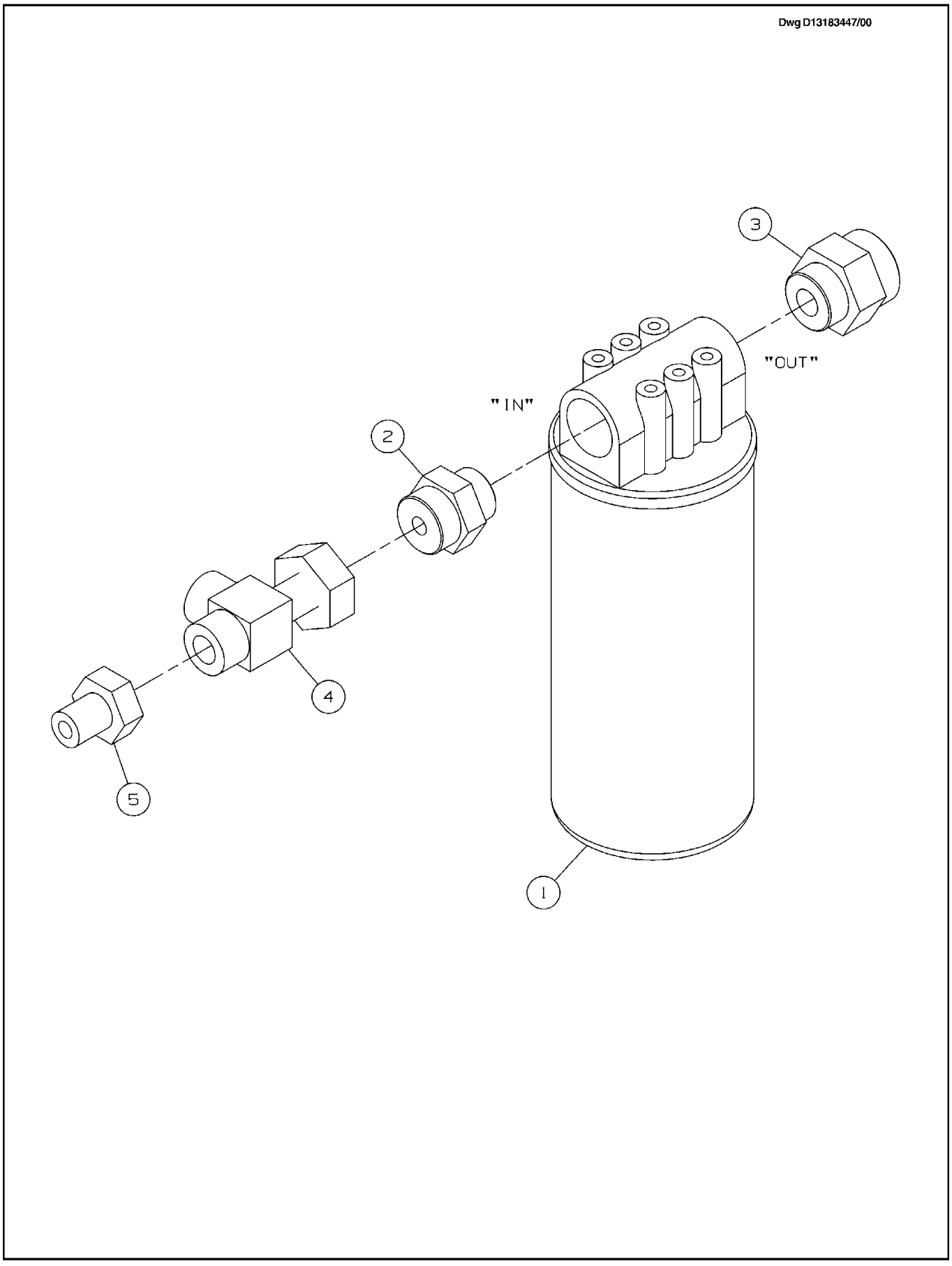
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HYDRAULIC PUMP ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173448		
1	54535646	Hydraulic Pump	1	
2	59251587	Pressure Switch	1	
3	59307652	Adapter	1	
4	59378687	Split Flange	1	
5	59922930	Adapter	1	
6	59408526	Adapter	1	
7	59922807	Adapter	1	
8	59866863	Adapter	1	

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HYDRAULIC FILTER ASSEMBLY



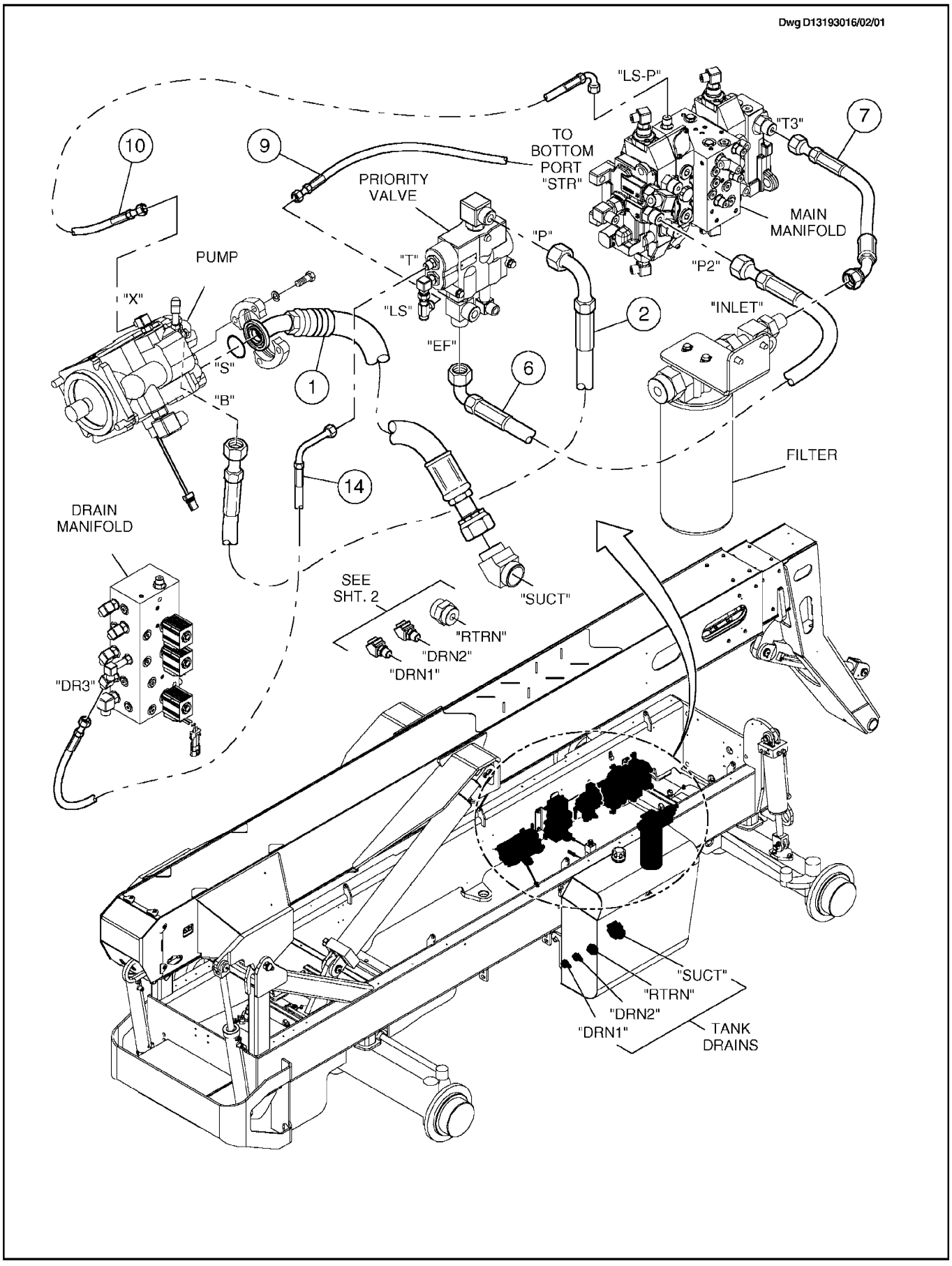
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HYDRAULIC FILTER ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173455		
1	13173802	Hydraulic Filter	1	
2	59922658	Adapter, Straight	1	
3	59922682	Adapter, Straight	1	
4	59923813	Adapter, Tee	1	
5	59056036	Reducer	1	

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HYDRAULIC PUMP AND FILTER HOSING INSTALLATION - SHEET 1 OF 2



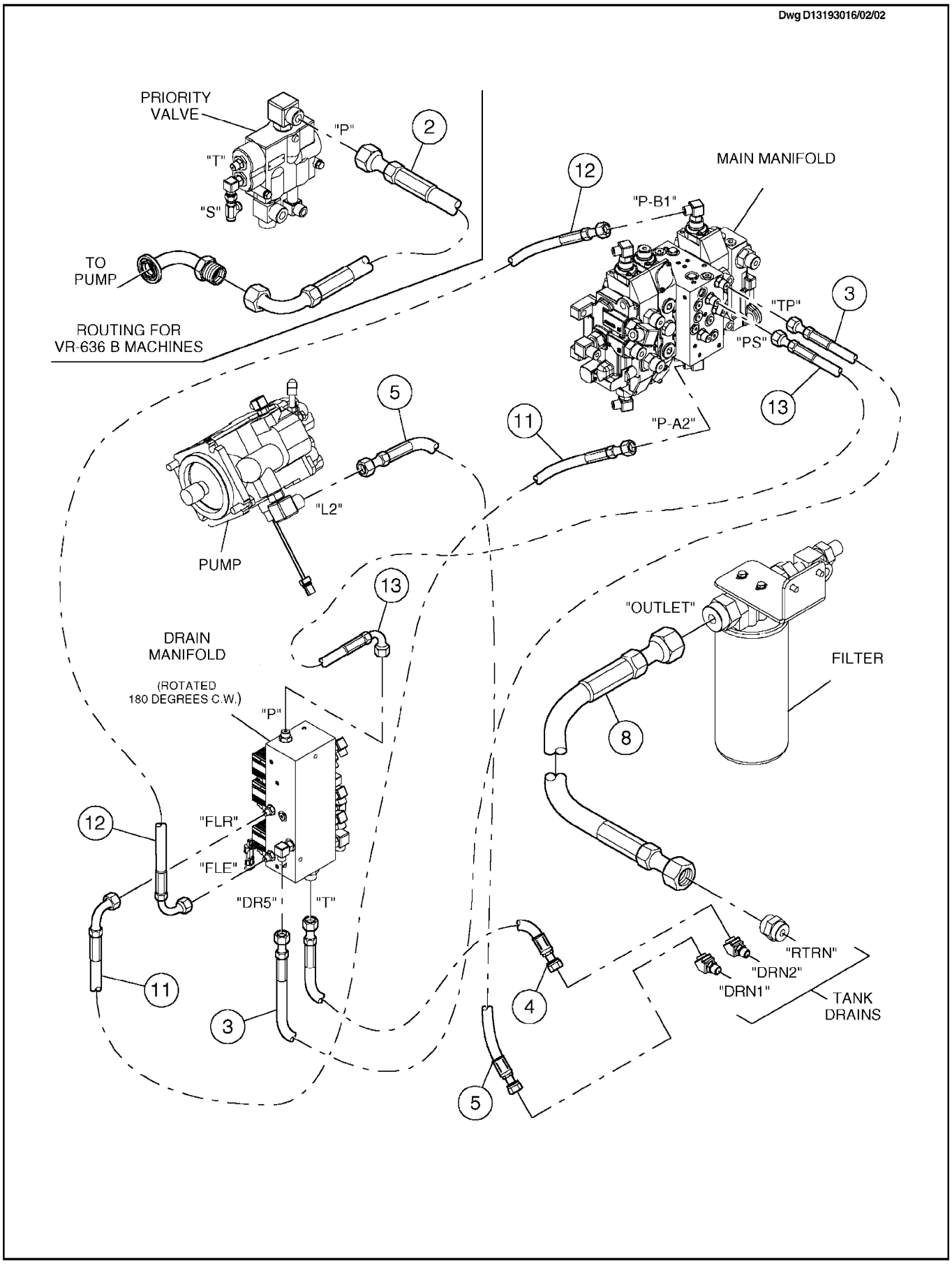
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HYDRAULIC PUMP AND FILTER HOSING INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193016		
1	13181284	Hose Assembly	1	#32 x 37.0"
2	59138636	Hose Assembly	1	#12 x 29.0"
6	59174557	Hose Assembly	1	#10 x 33.0"
7	13181250	Hose Assembly	1	#10 x 16.0"
9	13181474	Hose Assembly	1	#4 x 16.5.0"
10	13193024	Hose Assembly	1	#4 x 38.0"
14	13191036	Hose Assembly	1	#4 x 25.0"

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HYDRAULIC PUMP AND FILTER HOSING INSTALLATION - SHEET 2 OF 2



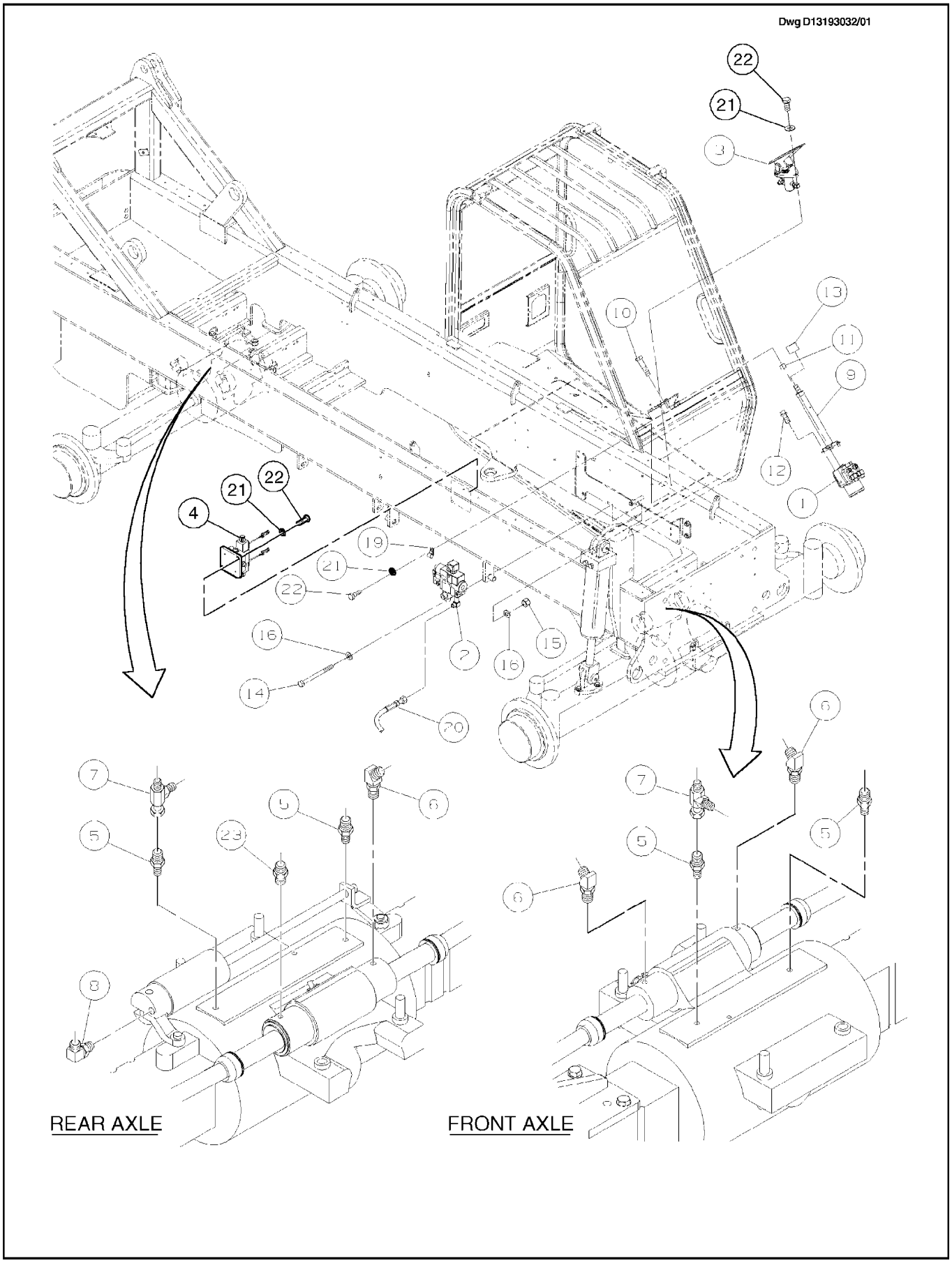
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HYDRAULIC PUMP AND FILTER HOSING INSTALLATION - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	59138636	Hose Assembly	1	#12 x 29.0"
3	13176995	Hose Assembly	1	#4 x 39.0"
4	59138610	Hose Assembly	1	#10 x 37.0"
5	13104831	Hose Assembly	1	#10 x 39.0"
8	59148825	Hose Assembly	1	#35 x 24.0"
11	13190822	Hose Assembly	1	#4 x 29.0"
12	13190830	Hose Assembly	1	#4 x 26.5"
13	13190848	Hose Assembly	1	#4 x 47.0"

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STEERING AND BRAKE INSTALLATION

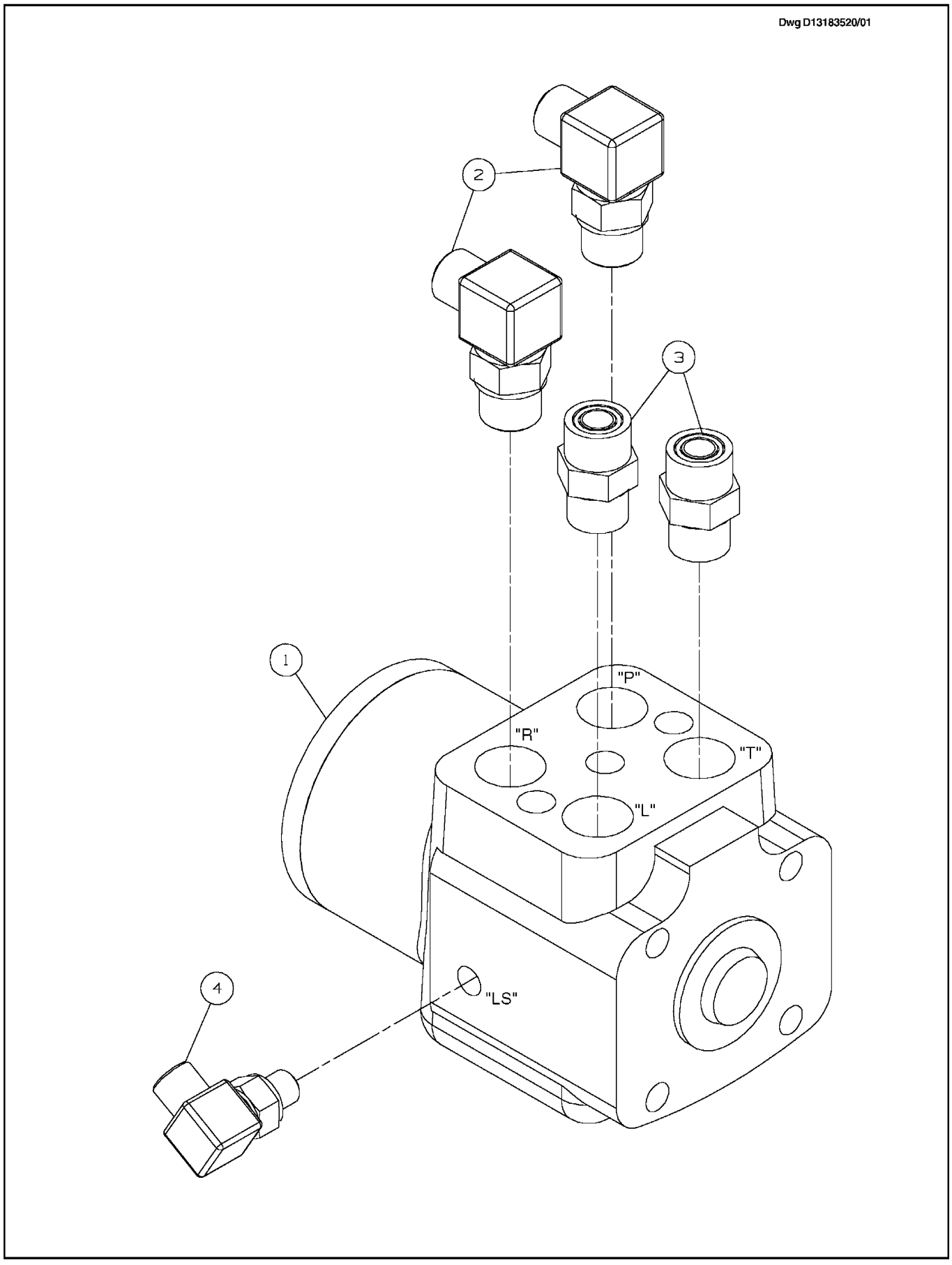


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193032		
1	**NSVA**	**Steering Orbital Assembly**	**1**	**See Section - H.6**
2	**NSVA**	**Steering Priority Valve Assembly**	**1**	**See Section - H.7**
3	**NSVA**	**Brake Valve Assembly**	**1**	**See Section - H.8**
4	**NSVA**	**Steering Selector Valve Assembly**	**1**	**See Section - H.9**
5	59031559	Connector	4	
6	59922245	Adapter, 45°	3	
7	59918615	Adapter	2	
8	54617162	Male Elbow, 90°	1	
9	59113951	Steering Column	1	
-	59154773	-Horn Brush Kit	1	
10	95919254	HHCS	2	3/8 -16 x 1.5
11	59137968	Bushing	1	
12	95921961	Screw	2	3/8-16 x 0.75
13	59465377	Tube		
14	95920617	HHCS	2	5/16-18 x 3.5
15	95922829	Nut	2	5/16-18
16	95922365	Flatwasher	4	5/16
19	59465641	Clamp	1	
20	**NSVA**	**Steering & Brake Hosing Assembly**	**1**	**See Section - H.10**
21	96702519	Hardened Flatwasher	6	M8
22	96702659	HHCS	6	M8-1.25 x 25
23	59918649	Adapter, Straight	1	

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STEERING ORBITAL ASSEMBLY



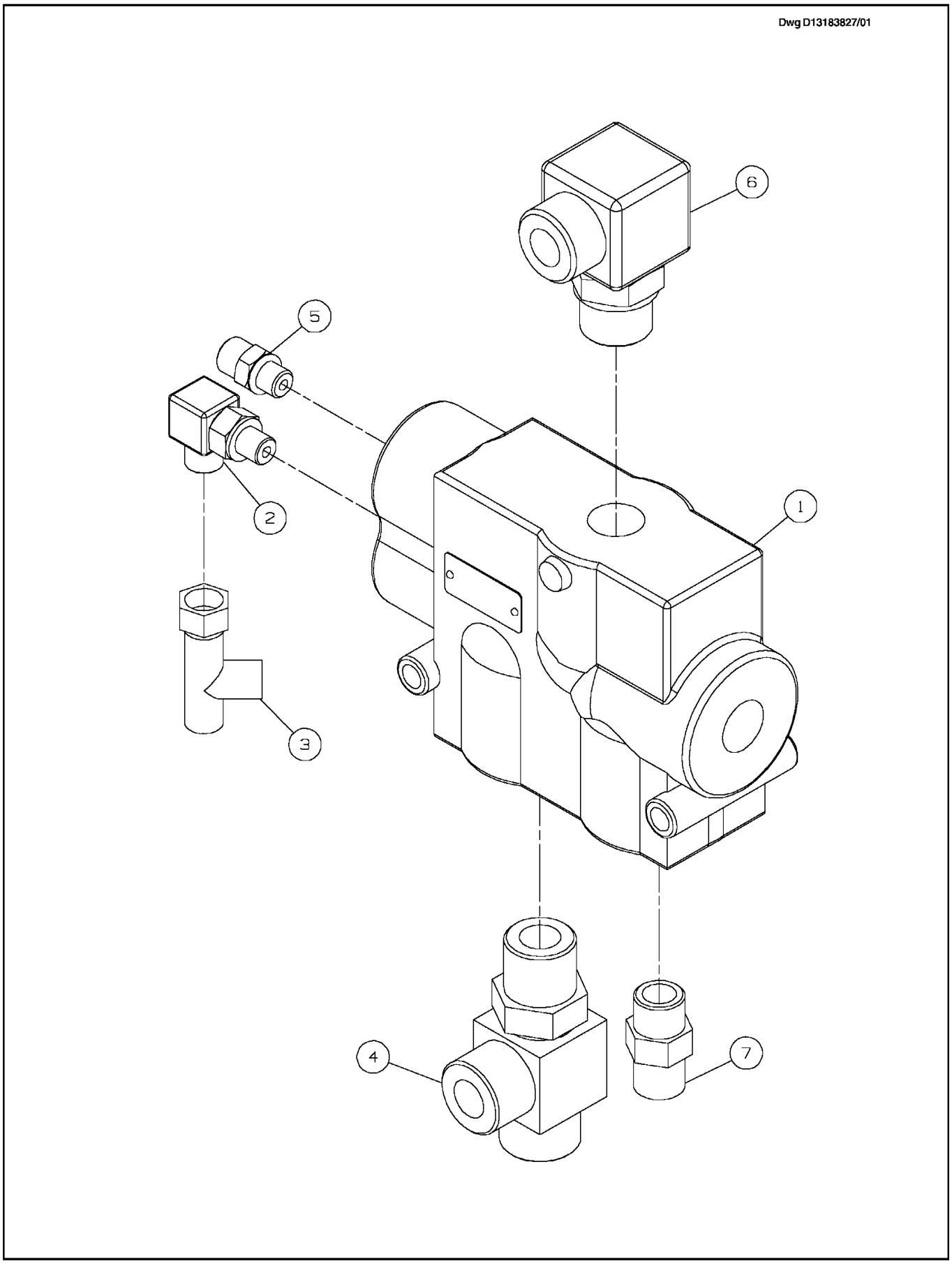
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STEERING ORBITAL ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173471		
1	59224261	Steering Orbital	1	
2	59921031	Adapter	2	
3	59922492	Adapter, Straight	2	
4	59922807	Adapter	1	

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STEERING PRIORITY VALVE ASSEMBLY



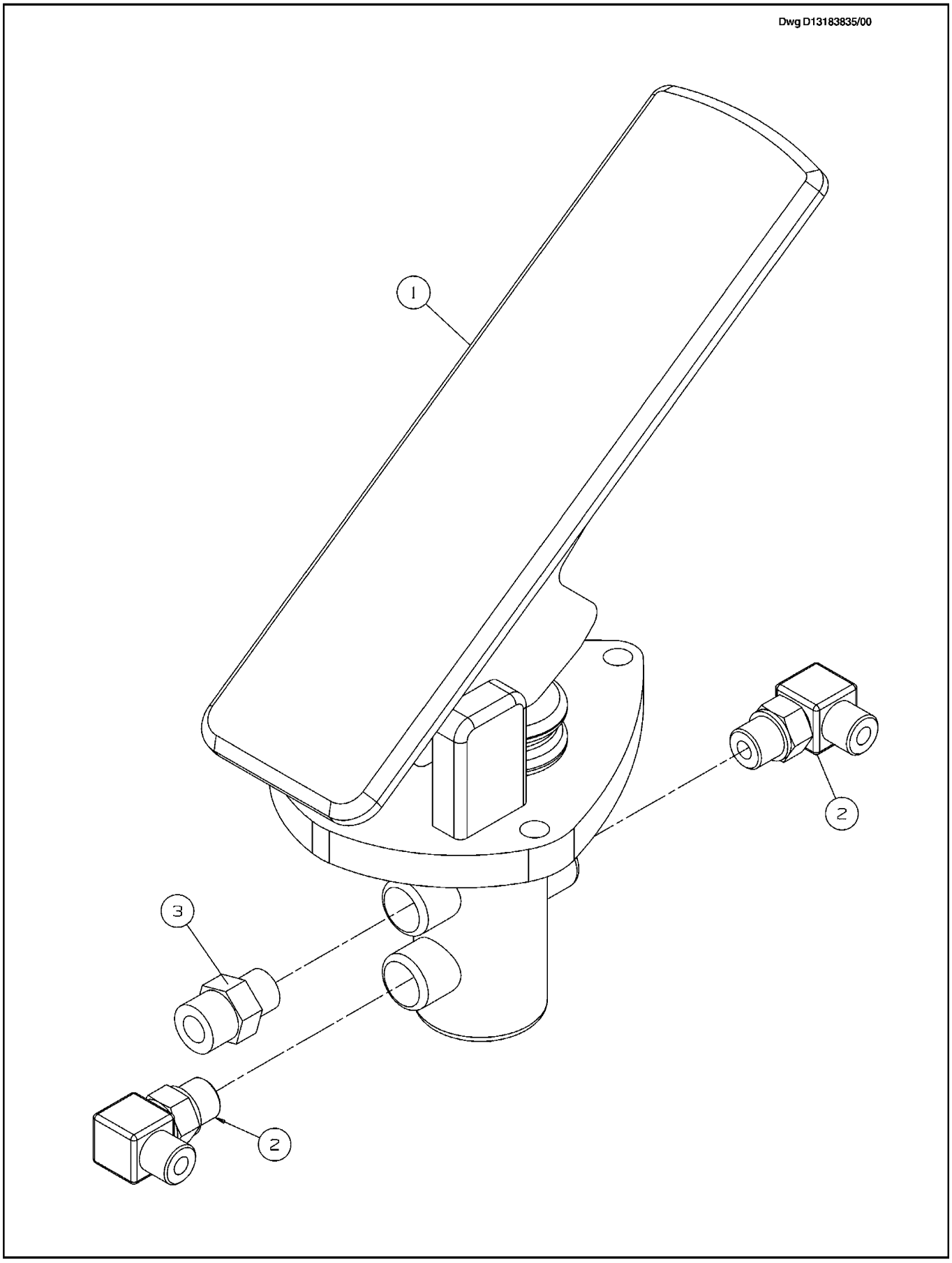
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STEERING PRIORITY VALVE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173505		
1	59148510	Steering Priority Valve	1	
-	59154781	-Relief Valve Assembly Cartridge	1	
2	59922807	Adapter	1	
3	59918615	Adapter	1	
4	59919670	Adapter, Straight	1	
4	59923094	Adapter	1	
5	59929182	Adapter, Straight	1	
6	59922971	Fitting	1	
7	59918649	Adapter, Straight	1	

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BRAKE VALVE ASSEMBLY



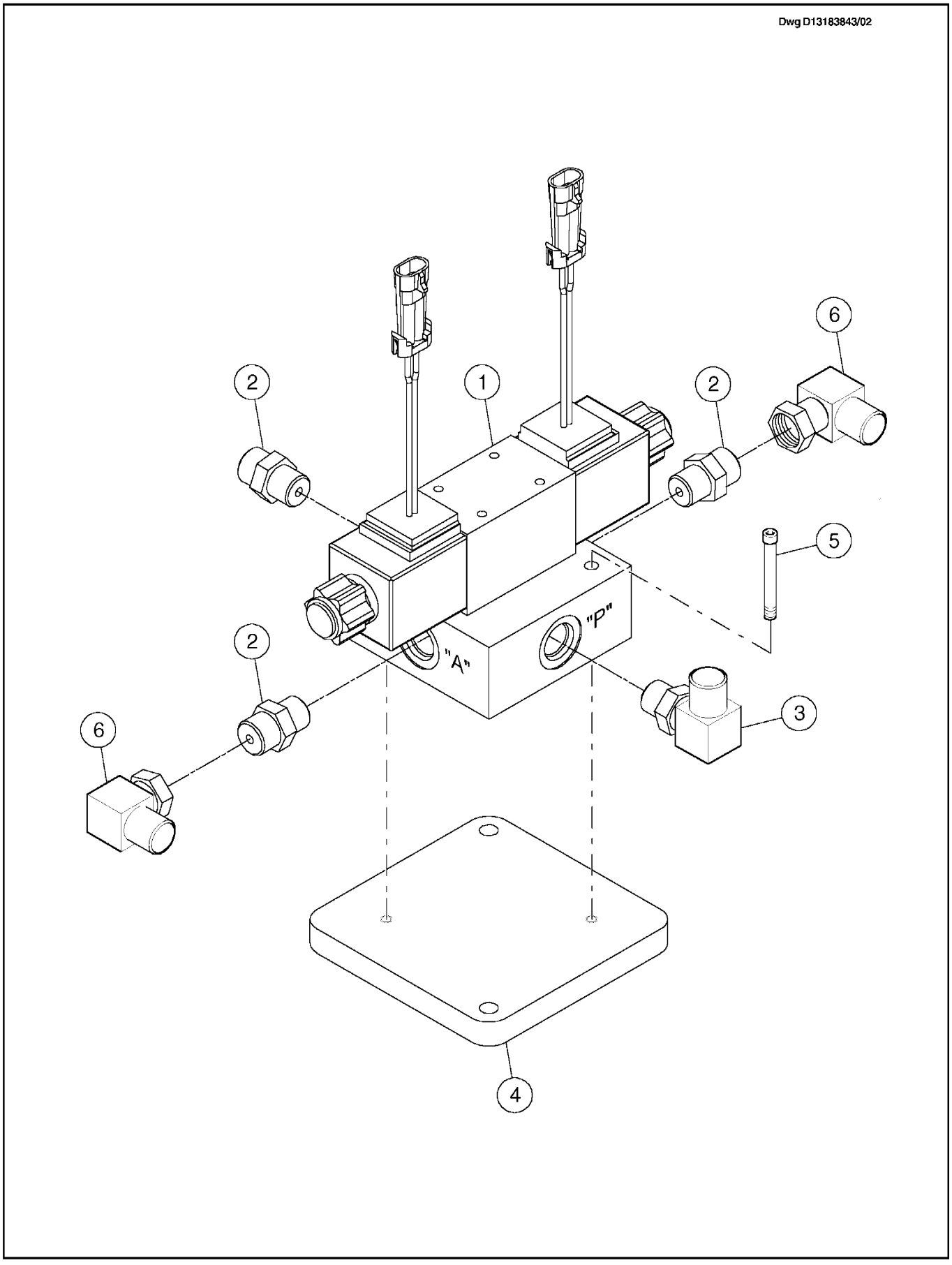
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BRAKE VALVE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173489		
1	**59113480**	**Brake Valve**	**1**	**See Breakdown - I.9**
2	59922823	Adapter, 90°	2	
3	59922419	Adapter, Straight	1	

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STEERING SELECTOR VALVE ASSEMBLY



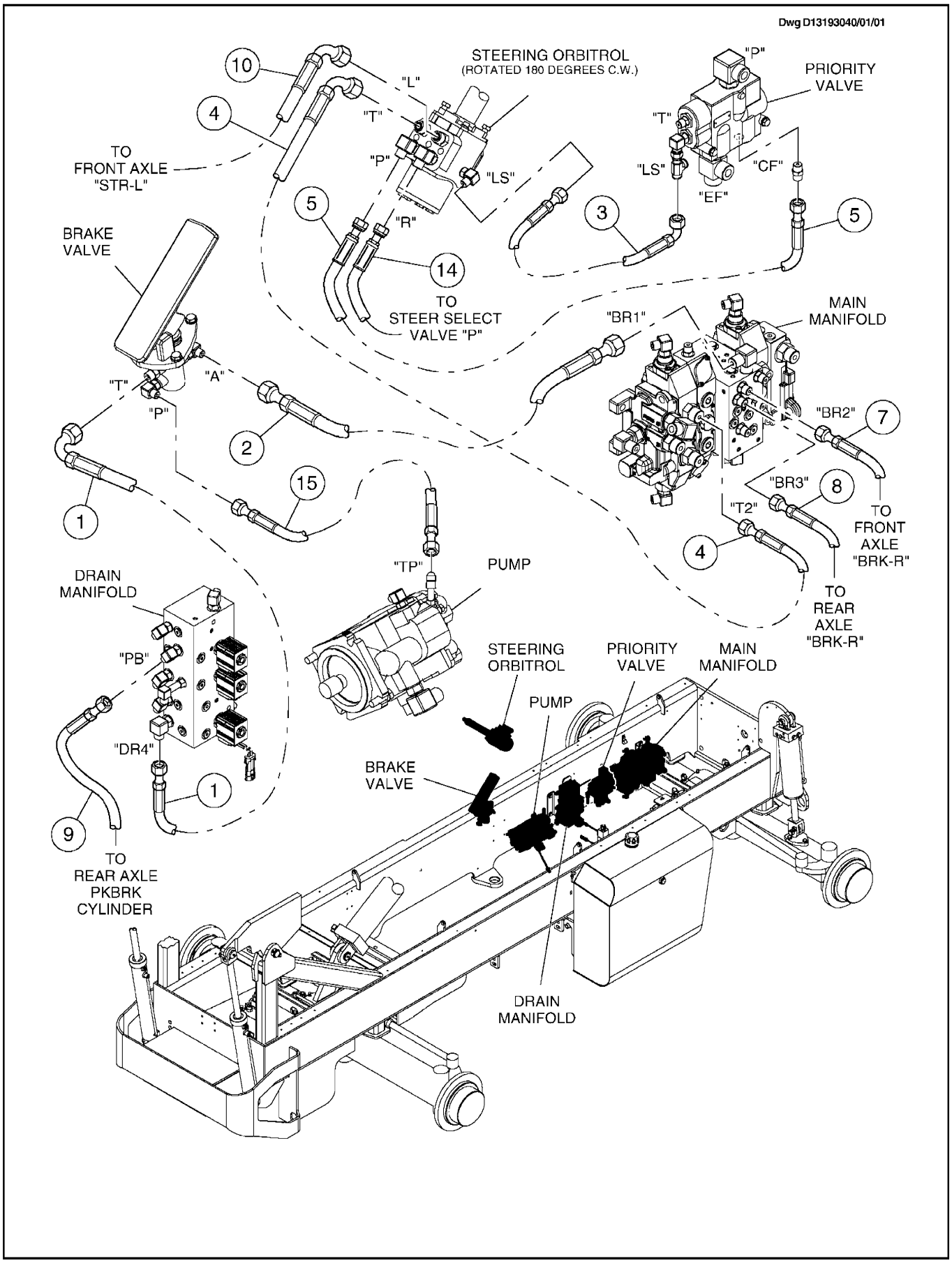
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STEERING SELECTOR VALVE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173497		
1	13163274	Steering Selector Valve	1	
2	59918649	Adapter, Straight	3	
3	59921031	Adapter	1	
4	13168562	Mounting Plate	1	
5	95067658	SHCS	2	1/4-20 x 1.5
6	59921056	Adapter	2	

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STEERING AND BRAKE HOSING ASSEMBLY - SHEET 1 OF 2



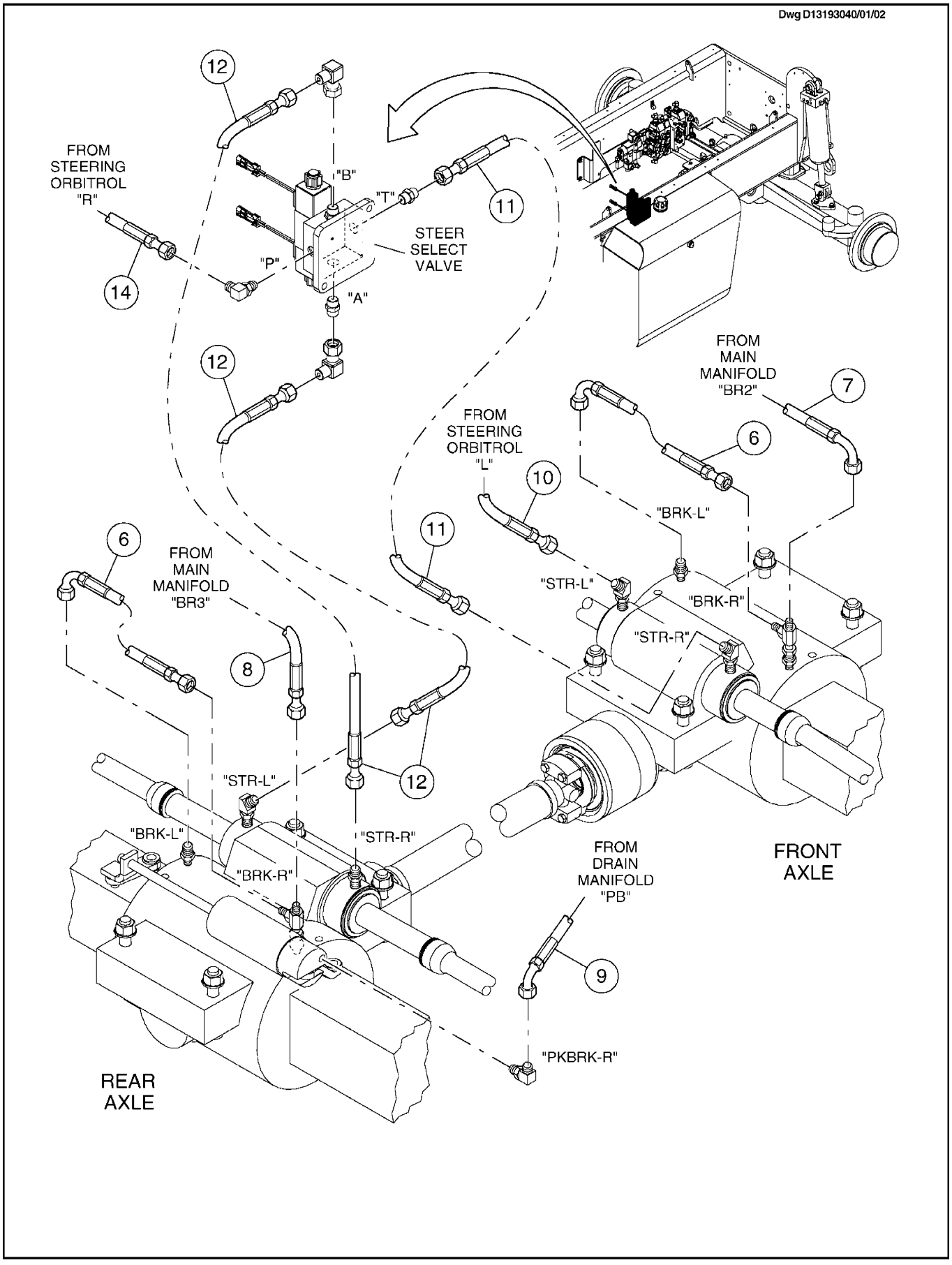
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STEERING AND BRAKE HOSING ASSEMBLY - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193040		
1	13193057	Hose Assembly	1	#4 x 33.5"
2	13193065	Hose Assembly	1	#4 x 65.0"
3	59157107	Hose Assembly	1	#4 x 62.0"
4	13193073	Hose Assembly	1	#8 x 82 .0"
5	13190863	Hose Assembly	1	#6 x 62.0"
7	13190905	Hose Assembly	1	#4 x 40.0"
8	13193081	Hose Assembly	1	#4 x 139.0"
9	54477179	Hose Assembly	1	#6 x 114.0"
10	13193362	Hose Assembly	1	#6 x 103.0"
14	13193107	Hose Assembly	1	#6 x 88.0"
15	13191077	Hose Assembly	1	#4 x 51.0"

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STEERING AND BRAKE HOSING ASSEMBLY - SHEET 2 OF 2



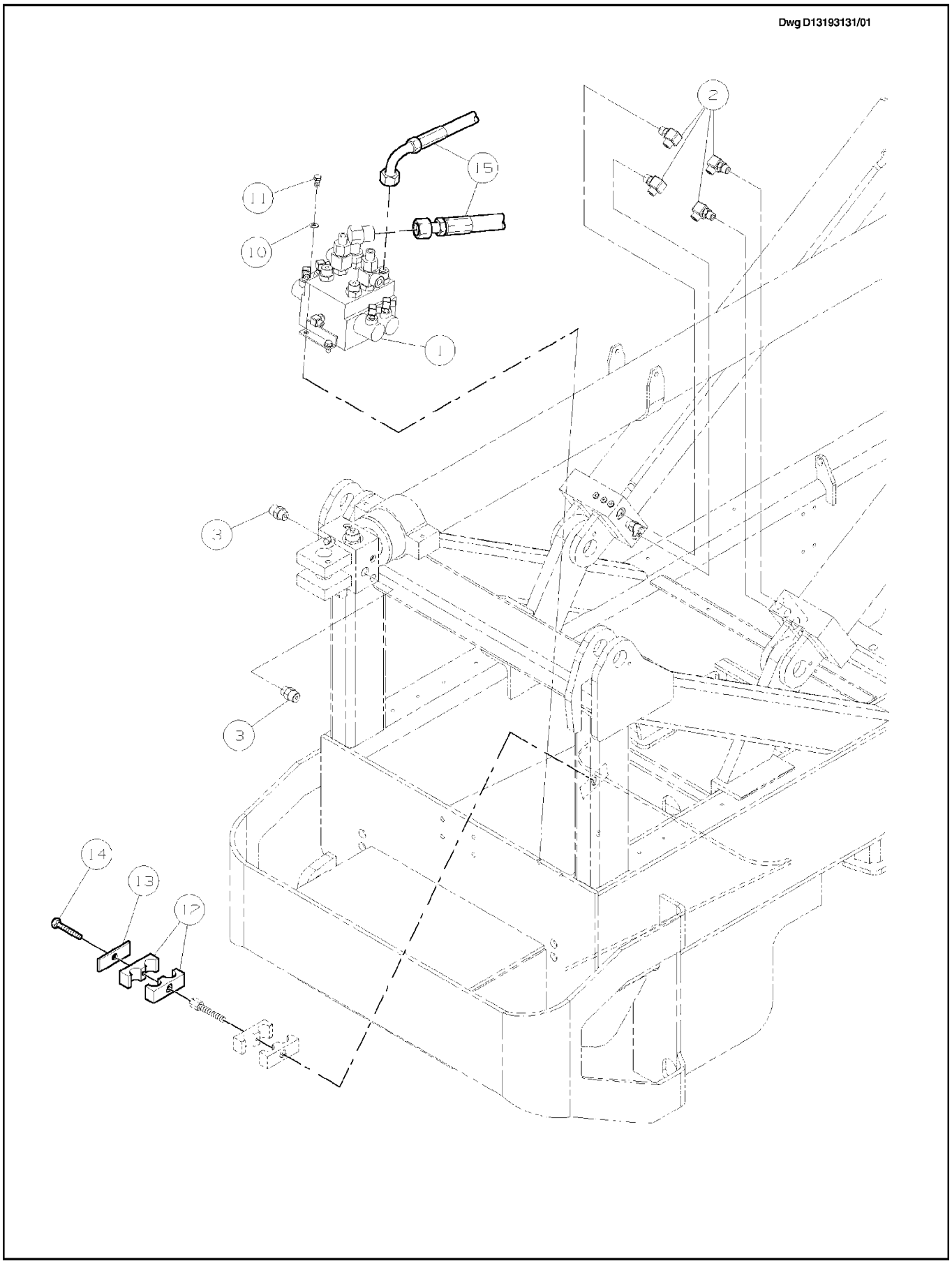
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STEERING AND BRAKE HOSING ASSEMBLY - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
6	13190897	Hose Assembly	2	#4 x 14.0"
7	13190905	Hose Assembly	1	#4 x 40.0"
8	13193081	Hose Assembly	1	#4 x 139.0"
9	54477179	Hose Assembly	1	#6 x 114.0"
10	13193362	Hose Assembly	1	#6 x 103.0"
11	13193099	Hose Assembly	1	#6 x 41.0"
12	13190996	Hose Assembly	2	#6 x 93.0"
14	13193107	Hose Assembly	1	#6 x 88.0"

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CROWD AND LIFT VALVE INSTALLATION



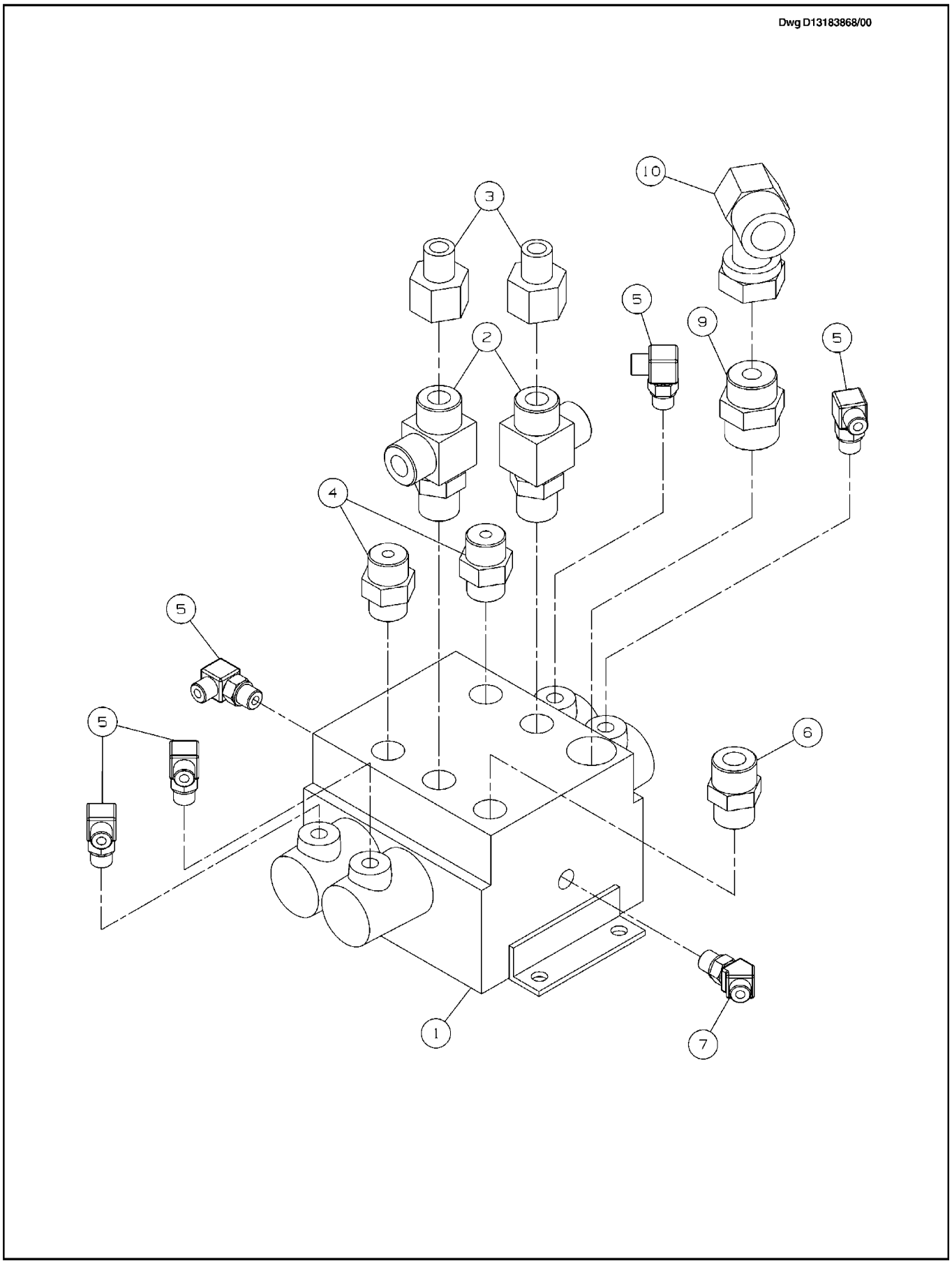
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CROWD AND LIFT VALVE INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193131		
1	**NSVA**	**Crowd And Lift Valve Assembly**	**1**	**See Section - H.12**
2	59922898	Adapter, 90°	4	
3	59922542	Adapter, Straight	2	
10	96741046	Flatwasher	3	M10
11	96702279	HHCS	3	M10 x 20
12	59583518	Clamp	2	
13	59583500	Cover Plate	1	
14	95920526	HHCS	1	5/16-18 x 1.75
15	**NSVA**	**Crowd And Lift Hosing Assembly**	**1**	**See Section - H.13**

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CROWD AND LIFT VALVE ASSEMBLY



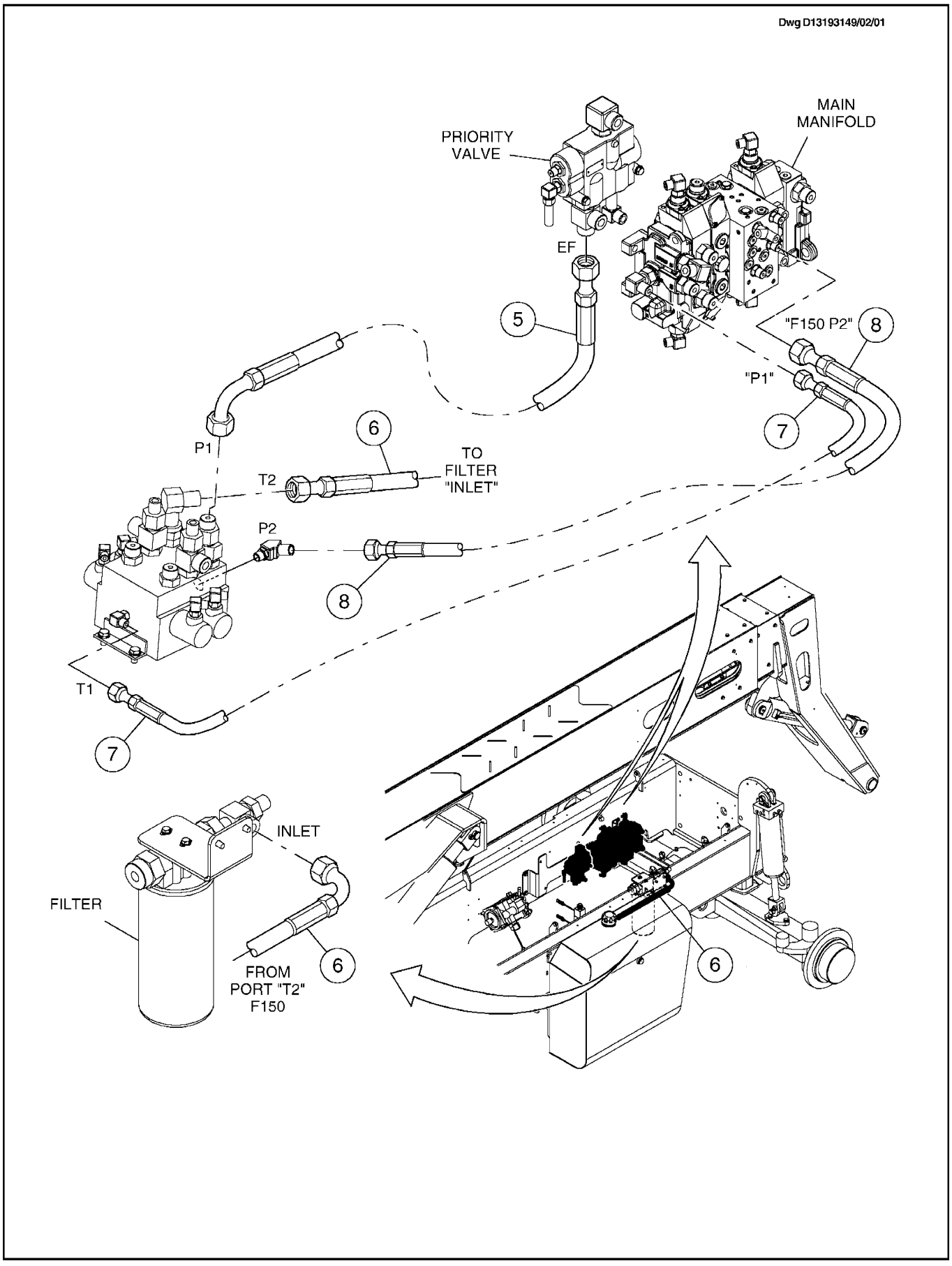
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CROWD AND LIFT VALVE ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173521		
1	13170584	Crowd And Lift Valve	1	
2	59923094	Adapter	2	
3	59924027	Adapter, Reducer	2	
4	59922559	Adapter	2	
5	59922823	Adapter, 90°	4	
5	59922823	Adapter, 90°	5	
6	59922591	Adapter	1	
7	59922211	Adapter, 45°	1	
9	59922641	Adapter, Straight	1	
10	59923490	Adapter	1	

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CROWD AND LIFT HOSING ASSEMBLY - SHEET 1 OF 2



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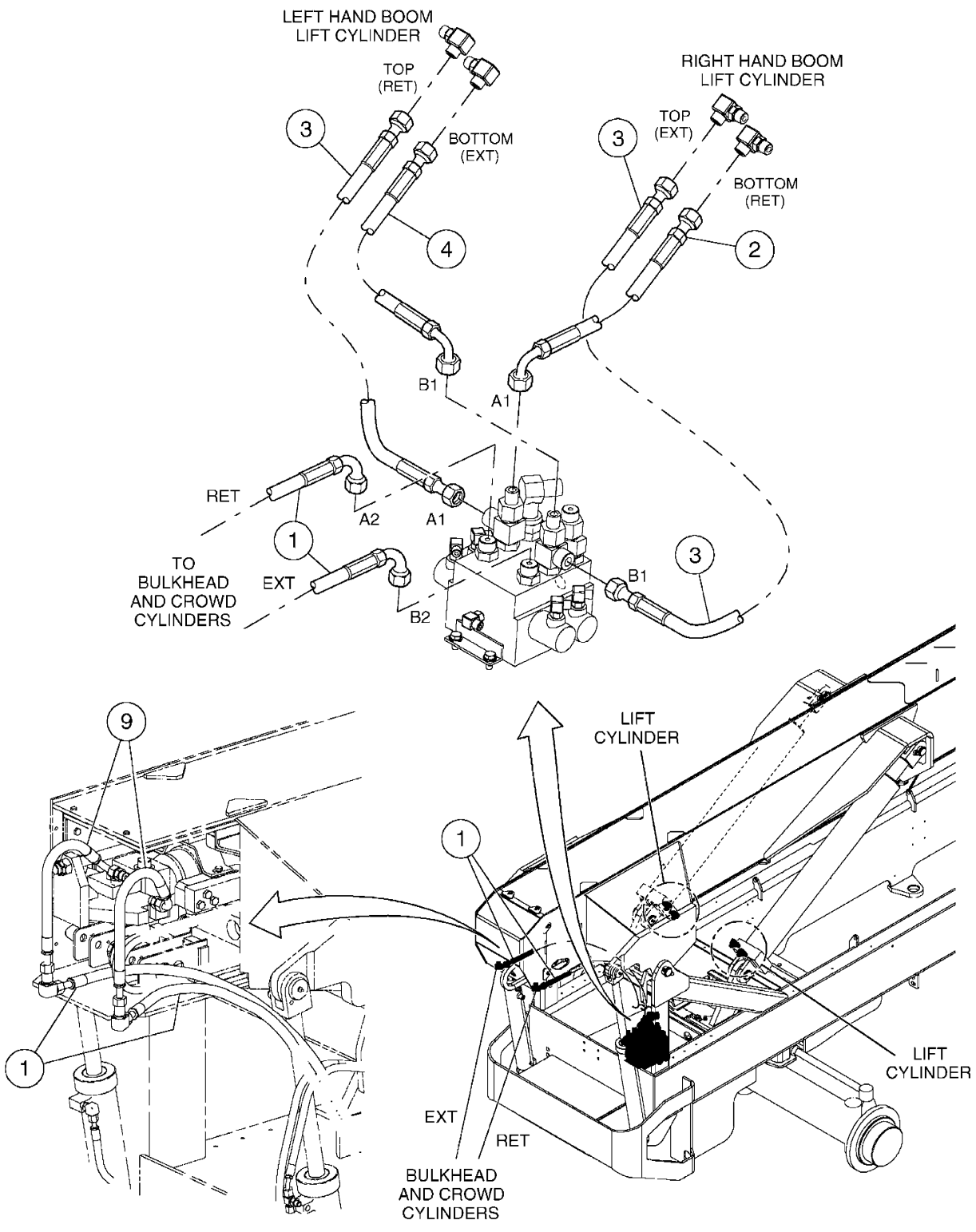
CROWD AND LIFT HOSING ASSEMBLY - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193149		
5	13193156	Hose Assembly	1	#12 x 135.0"
6	13193164	Hose Assembly	1	#16 x 131.0"
7	13193172	Hose Assembly	1	#4 x 168.0"
8	13193180	Hose Assembly	1	#4 x 150.0"

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CROWD AND LIFT HOSING ASSEMBLY - SHEET 2 OF 2

Dwg D13193149/02/02



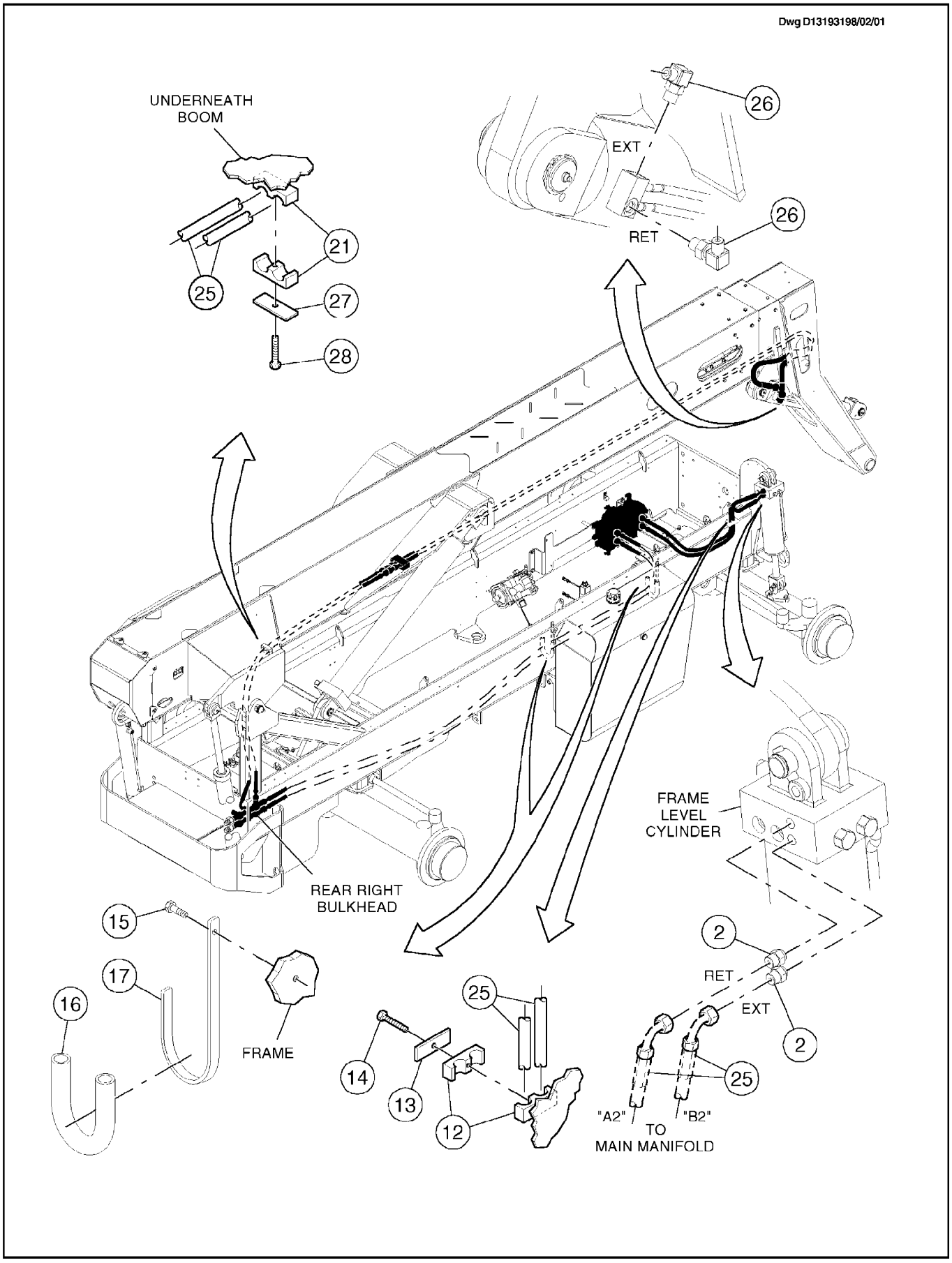
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CROWD AND LIFT HOSING ASSEMBLY - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	13181235	Hose Assembly	2	#10 x 63.5
2	13220389	Hose Assembly	1	#8 x 32.0"
3	13181334	Hose Assembly	2	#8 x 30.0"
4	59293845	Hose Assembly	1	#8 x 34.0"
9	59198549	Hose Assembly	2	22.0"

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FRAME LEVEL/FORK TILT INSTALLATION - SHEET 1 OF 2



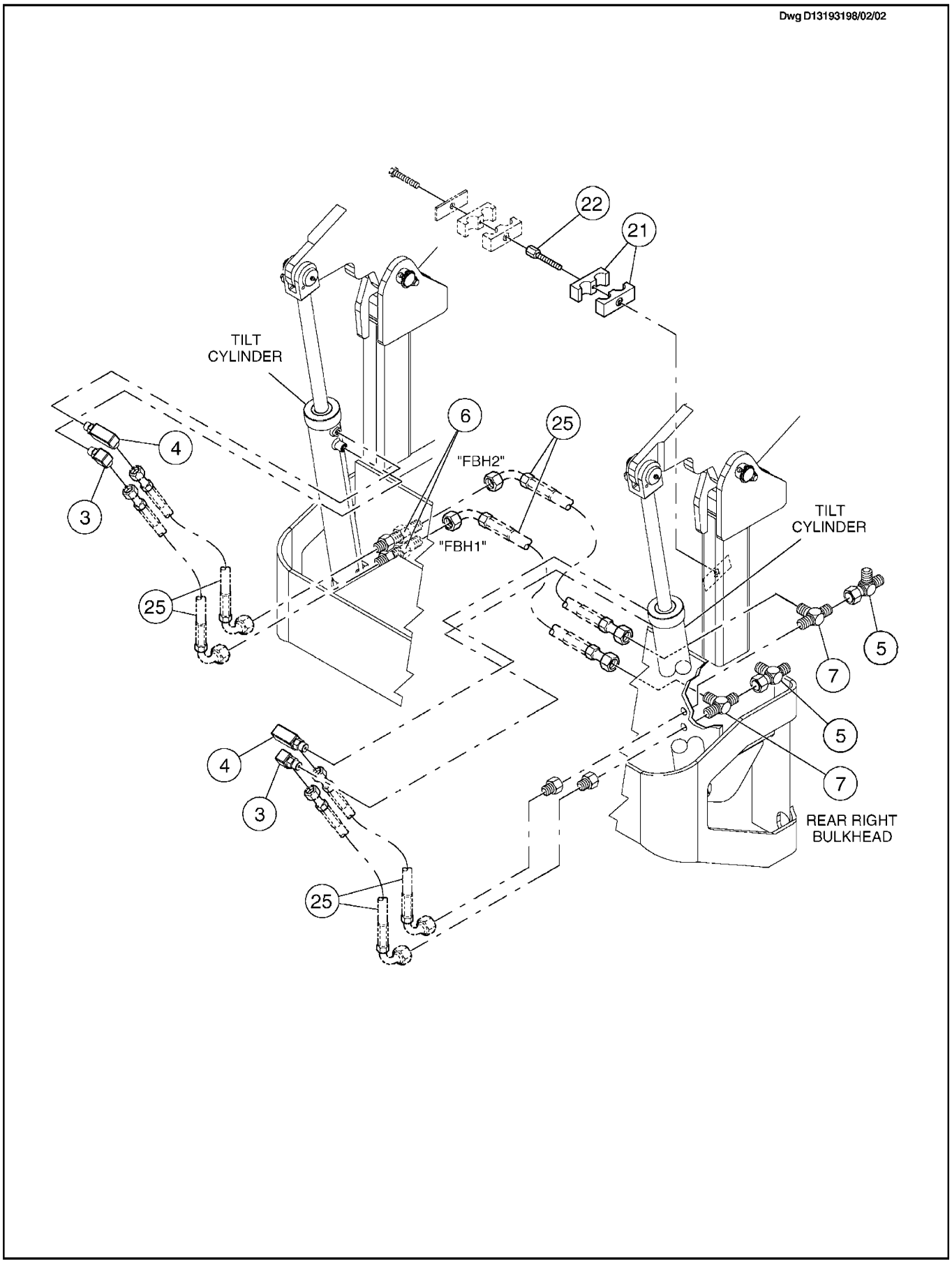
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FRAME LEVEL/FORK TILT INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193198		
2	59919670	Adapter, Straight	2	
12	59929026	Insert Clamp	2	
13	59583450	Cover Plate	1	
14	96705553	HHCS	1	M8-1.25 x 45
15	96702824	HHCS	2	M8 x 20
16	59135681	J-hook Cover	2	
17	59180695	J-hook	2	
21	59746248	Clamp	4	
25	**NSVA**	**Frame Level/Fork Tilt Hosing Assembly**	**1**	**See Section - H.15**
26	59922880	Adapter	2	
27	59583500	Cover Plate	1	
28	96728142	HHCS	1	M8-1.25 x 55

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FRAME LEVEL/FORK TILT INSTALLATION - SHEET 2 OF 2



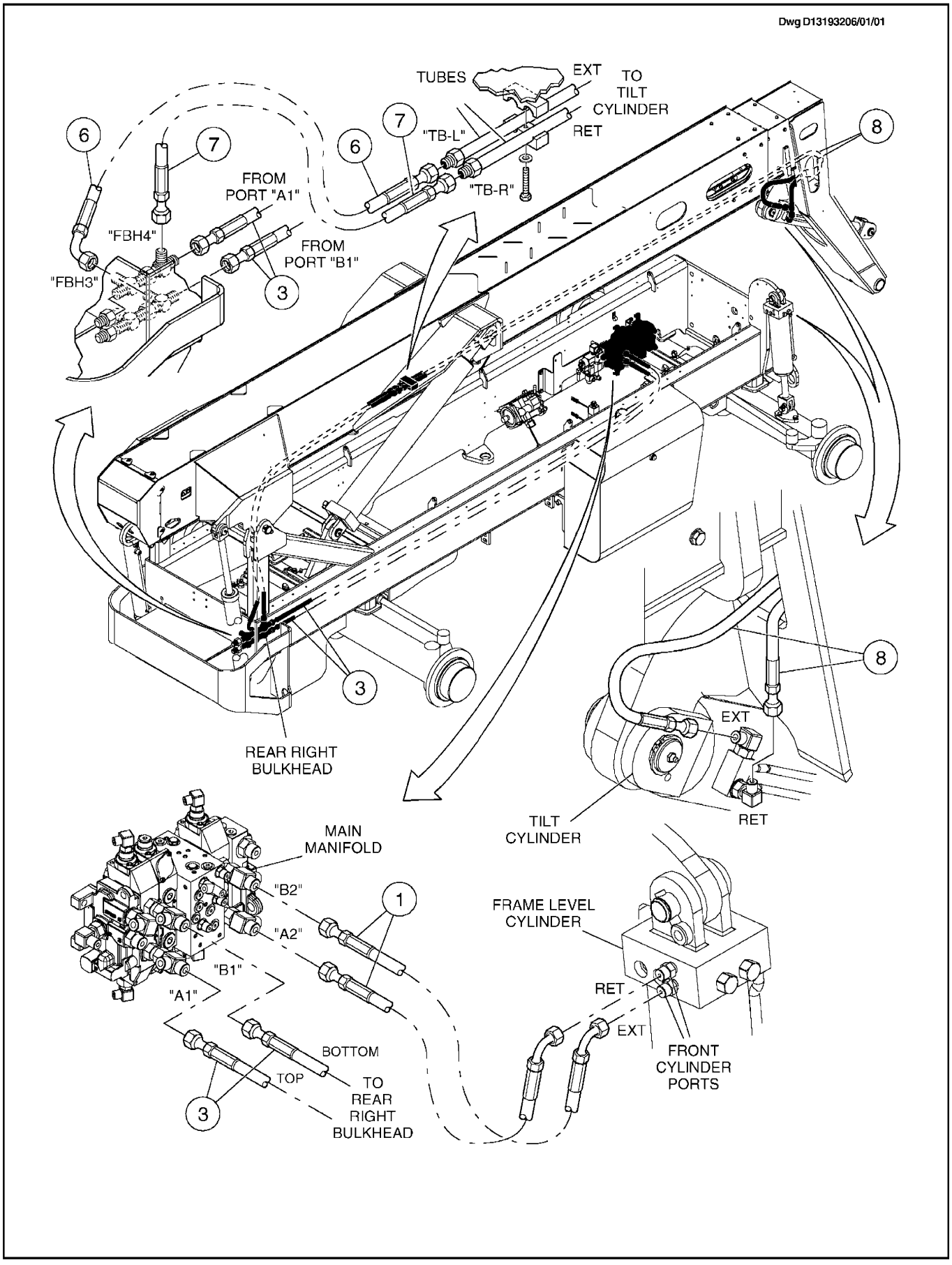
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FRAME LEVEL/FORK TILT INSTALLATION - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
3	59922864	Adapter, 90°	2	
4	59408534	Adapter	2	
5	59923797	Tee	2	
6	59947044	Fitting	2	
7	59962639	Adapter, Tee	2	
21	59746248	Clamp	4	
22	59583484	Bolt	1	
25	**NSVA**	**Frame Level/Fork Tilt Hosing Assembly**	**1**	**See Section - H.15**

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FRAME LEVEL/FORK LIFT HOSING ASSEMBLY - SHEET 1 OF 2



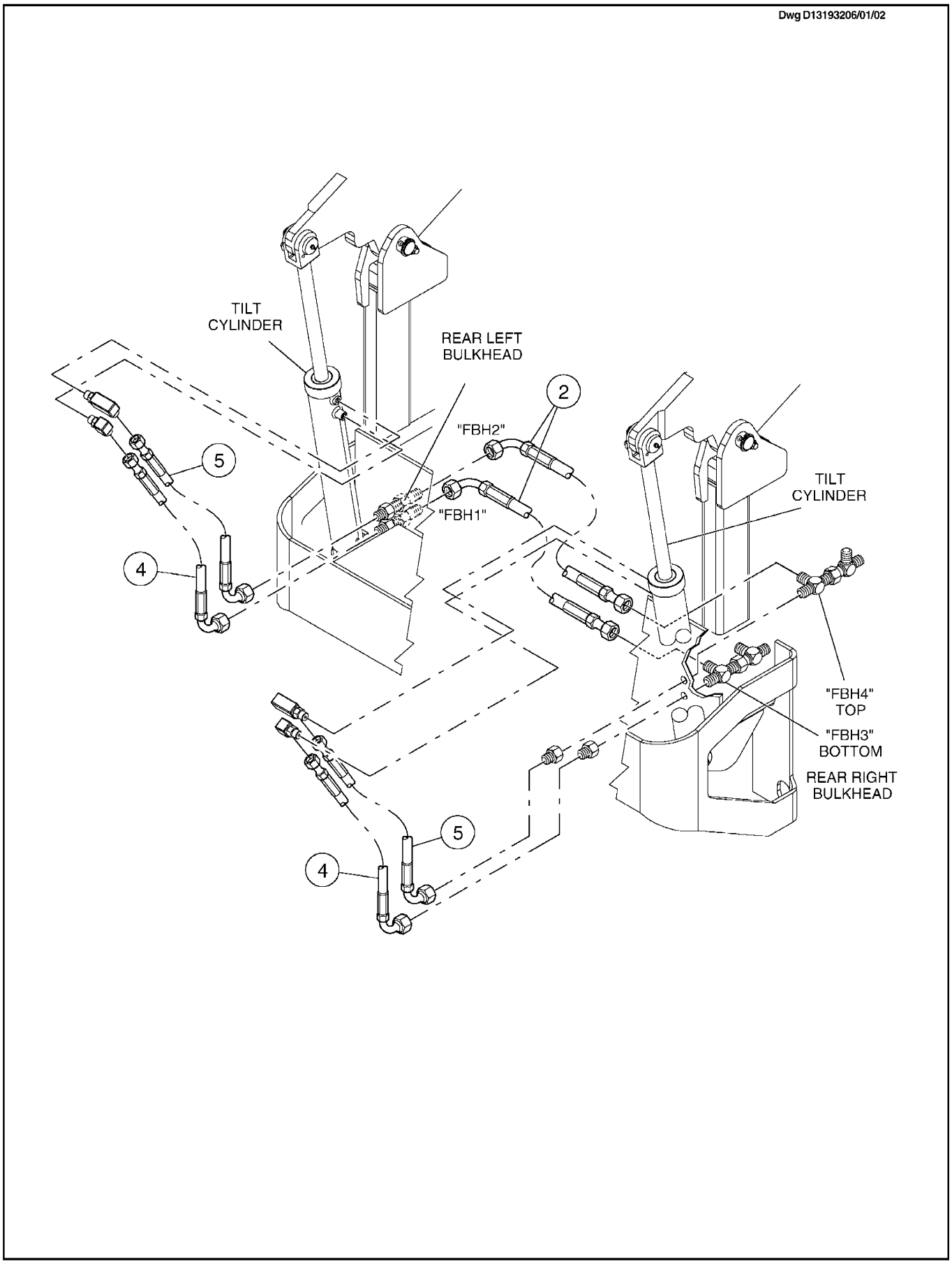
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FRAME LEVEL/FORK LIFT HOSING ASSEMBLY - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193206		
1	13181466	Hose Assembly	2	#6 x 51.0"
3	13193214	Hose Assembly	2	#8 x 161.0"
6	13220470	Hose Assembly	1	#8 x 68.0"
7	13220447	Hose Assembly	1	#8 x 63.0"
8	13191085	Hose Assembly	2	#8 x 38.0"

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FRAME LEVEL/FORK LIFT HOSING ASSEMBLY - SHEET 2 OF 2



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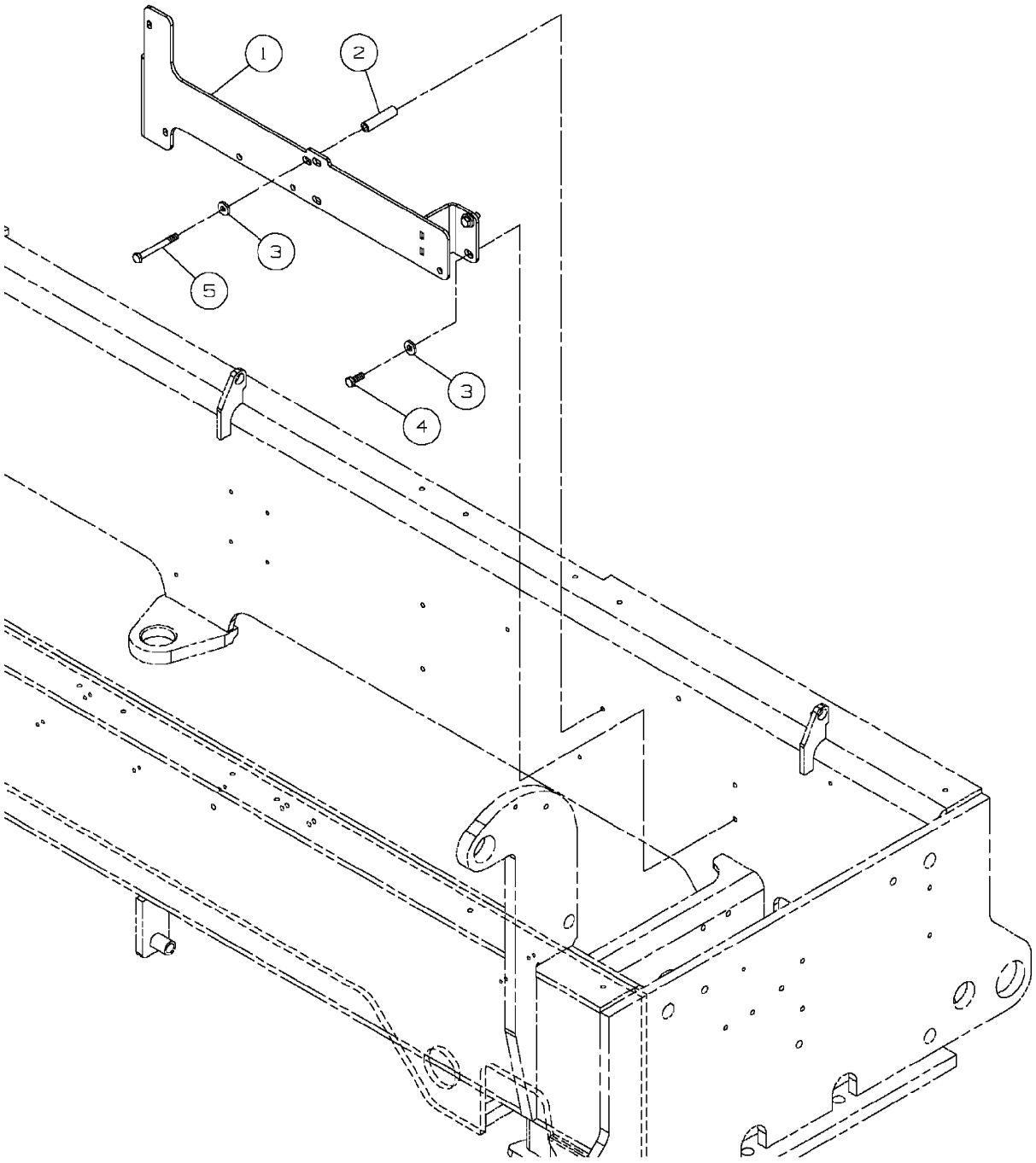
FRAME LEVEL/FORK LIFT HOSING ASSEMBLY - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	59025726	Hose Assembly	2	#8 x 26.0"
4	13190947	Hose Assembly	2	#6 x 17.0"
5	13190954	Hose Assembly	2	#6 x 18.0"

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HYDRAULIC BRACKET INSTALLATION

Dwg D13183561/01



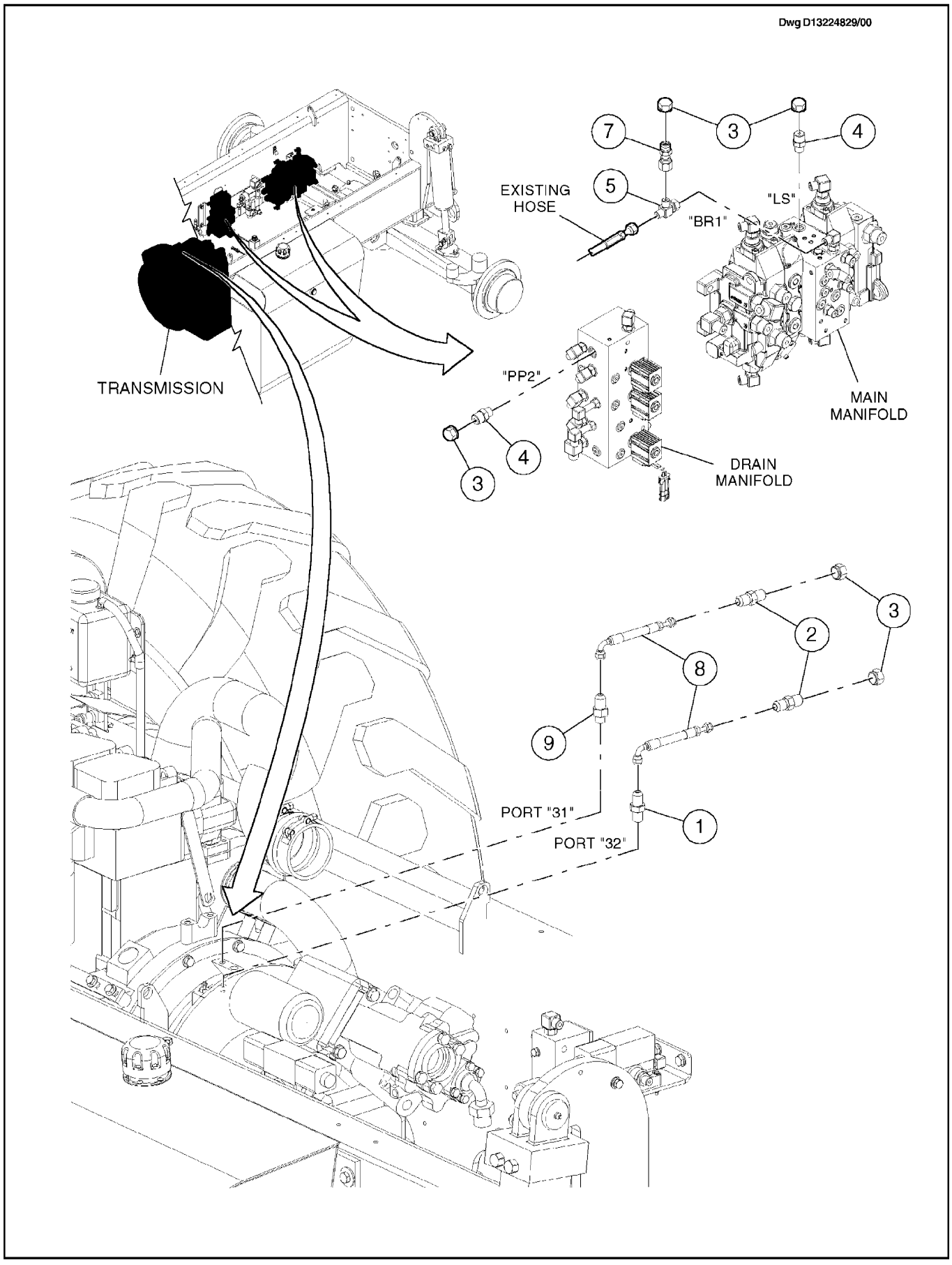
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HYDRAULIC BRACKET INSTALLATION

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173687		
1	13182704	Hydraulic Bracket	1	
2	59264820	Bracket Spacer	1	
3	96711833	Flatwasher	5	M10
4	96702287	HHCS	4	M10 x 25
5	96704739	HHCS	1	M10 x 90

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HYDRAULIC TEST PORT INSTALLATION - OPTIONAL



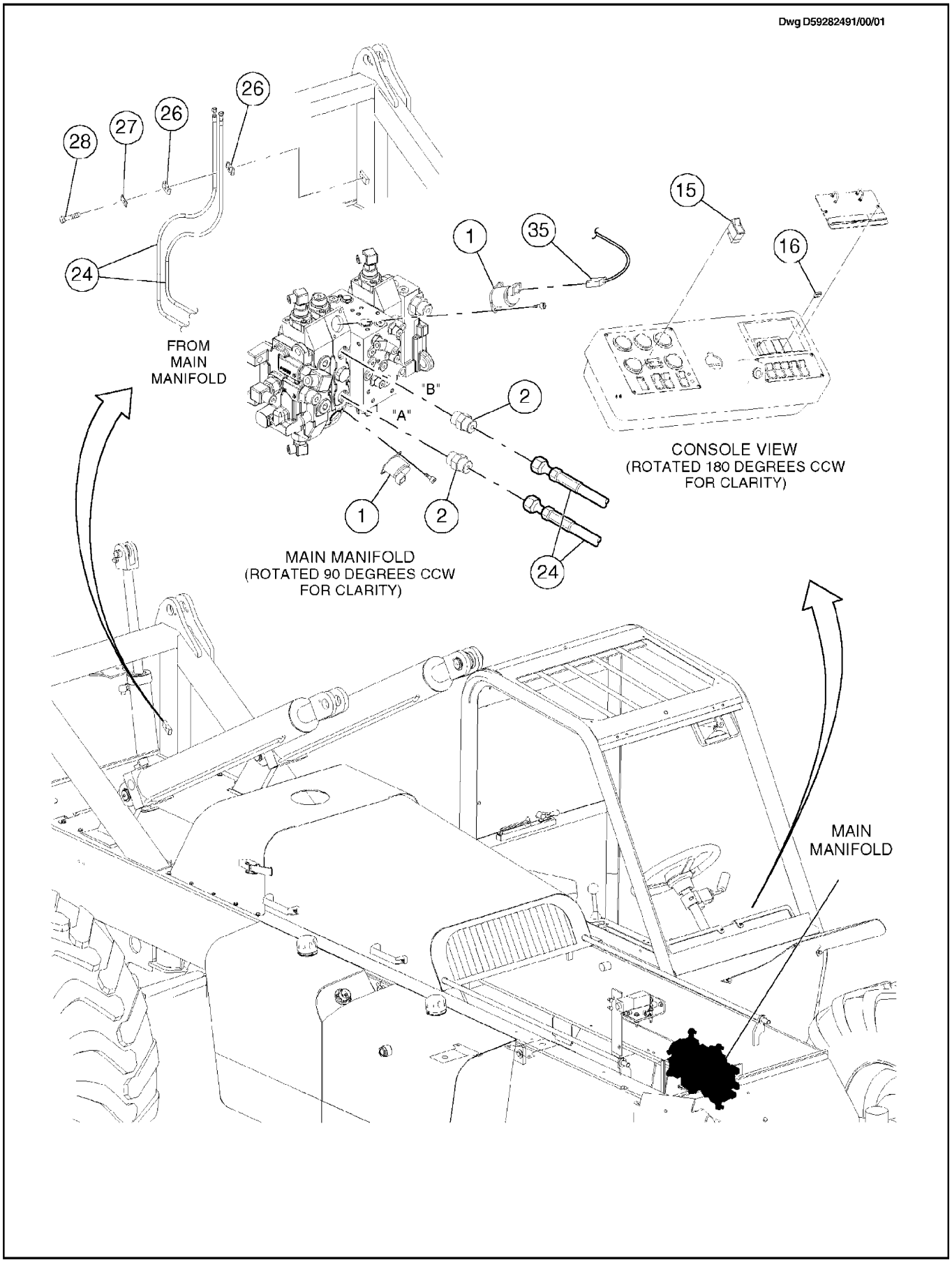
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HYDRAULIC TEST PORT INSTALLATION - OPTIONAL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13224829		
1	95287629	Adapter, Straight	1	
2	95405221	Adapter, Straight	2	
3	91300970	Cap	5	
4	95365086	Adapter, Straight	2	
5	59918615	Adapter, Tee	1	
7	59158899	Adapter	1	
8	59158410	Hose Assembly	2	6.0"
9	59212696	Adapter, Straight	1	

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SINGLE FUNCTION AUXILIARY HYDRAULICS INSTALLATION - SHEET 1 OF 2



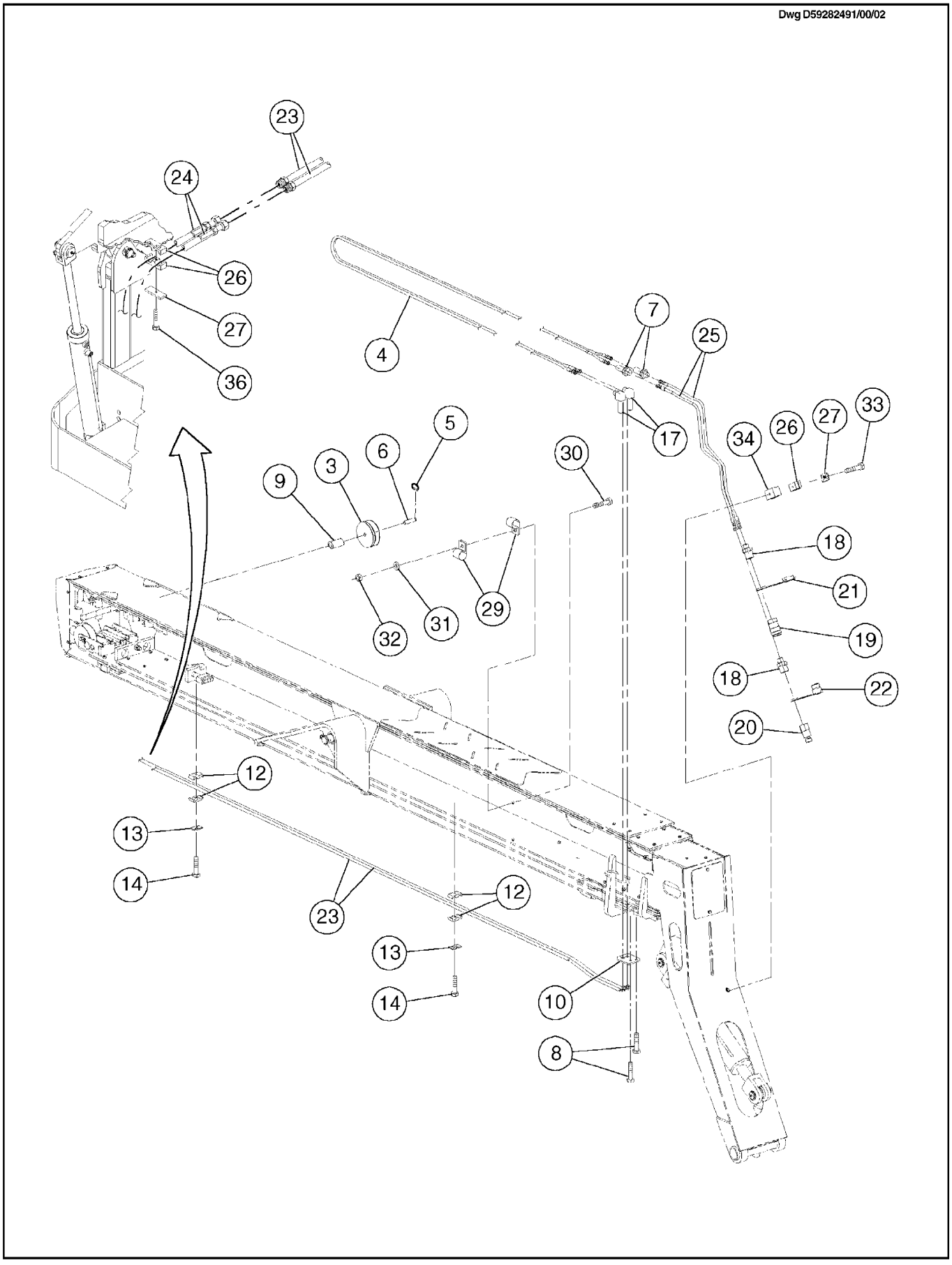
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SINGLE FUNCTION AUXILIARY HYDRAULICS INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59282517		
1	13173406	Solenoid Valve	2	
2	59922500	Adapter, Straight	2	
15	59114173	Auxiliary Hydraulics Control Switch	1	
16	59325712	Fuse	1	10 Amp
24	13195847	Hose Assembly	2	#8 x 257.0"
26	59746248	Clamp	6	
27	59583500	Cover Plate	3	
28	95920526	Capscrew	1	5/16-18 x 1.75
35	13199377	Auxiliary Hydraulics Chassis Harness	1	

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SINGLE FUNCTION AUXILIARY HYDRAULICS INSTALLATION - SHEET 2 OF 2



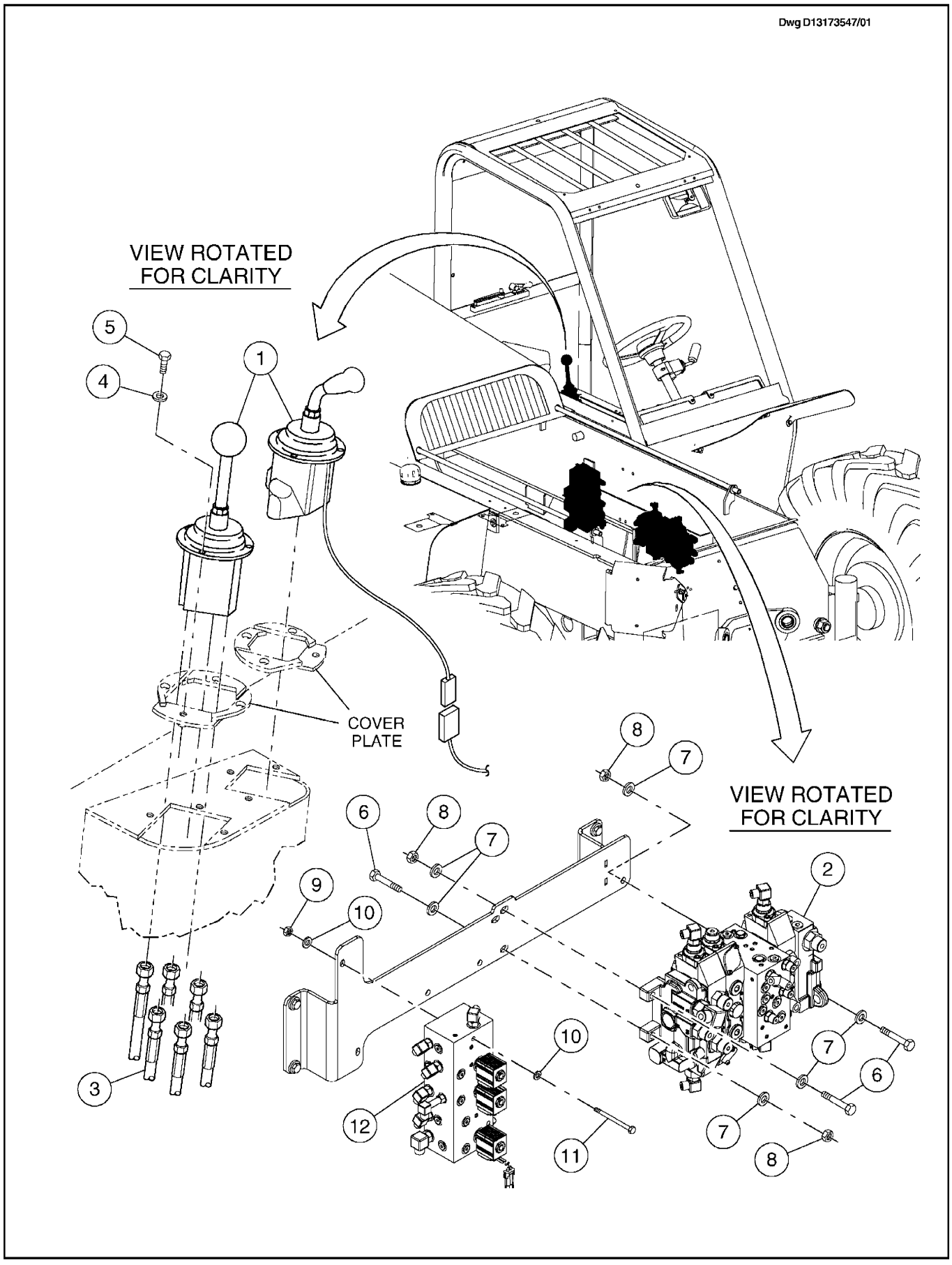
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SINGLE FUNCTION AUXILIARY HYDRAULICS INSTALLATION - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
3	13158019	Hose Sheave	1	
4	59286047	Hose Assembly	2	352.0"
5	95223301	Retaining Ring	1	
6	13184080	Pin	1	
7	59947044	Fitting	2	
8	96702279	HHCS	2	M10 x 20
9	13183066	Bushing	1	
10	13158548	Bulkhead Plate	1	
12	54525811	Clamp	4	
13	59607200	Cover Plate	2	
14	96702402	HHCS	2	M8-1.25 x 50
17	54503644	Adapter	2	
18	59903138	Adapter	2	
19	59096735	Quick Disconnect Coupler	1	
20	59096743	Quick Disconnect Nipple	1	
21	59096750	Quick Connect Coupler Dust Cap	1	
22	59096768	Quick Connect Nipple Dust Cap	1	
23	59286054	Tube Assembly	2	
24	13195847	Hose Assembly	2	#8 x 257.0"
25	59197350	Hose Assembly	2	49.0"
26	59746248	Clamp	6	
27	59583500	Cover Plate	3	
29	95301867	Clamp	2	
30	96701917	HHCS	1	M10 x 30
31	59565036	Hardened Flatwasher	1	0.40 x 0.81 x 0.19
32	96704614	Nut	1	M10-1.5
33	96715131	HHCS	1	M8 x 70
34	59271023	Hose Mounting	1	
36	96728142	HHCS	1	M8-1.25 x 55

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JOYSTICK INSTALLATION - DUAL CONTROL



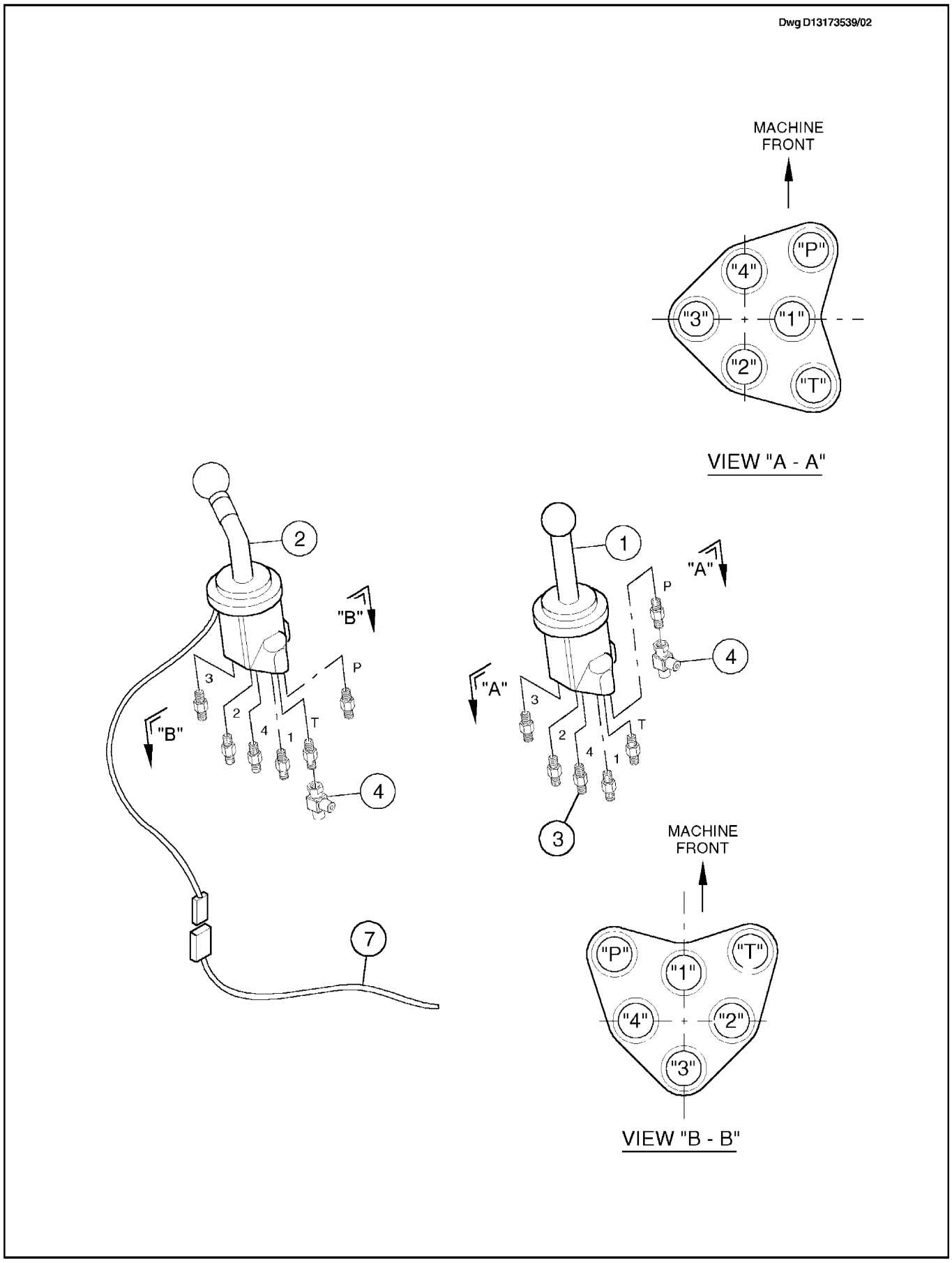
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JOYSTICK INSTALLATION - DUAL CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173547		
1	**NSVA**	**Crowd/Lift Joystick Assembly - Dual Control**	**1**	**See Section - H.20**
2	**NSVA**	**Main Manifold Assembly- Dual Control**	**1**	**See Section - H.21**
3	**NSVA**	**Joystick Hosing Assembly - Dual Control**	**1**	**See Section - H.22**
4	96741053	Flatwasher	8	M6
5	96720164	SHCS	8	M6-1.0 x 25
6	96702436	HHCS	3	
7	96711833	Flatwasher	6	M10
8	96704614	Nut	3	M10-1.5
9	96704606	Locknut	2	M8
10	96741038	Flatwasher	4	M8
11	96728787	Hex Bolt	2	M8-1.25 x 120
12	**NSVA**	**Drain Manifold Assembly - Dual Control**	**1**	**See Section - H.23**

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CROWD/LIFT JOYSTICK ASSEMBLY - DUAL CONTROL



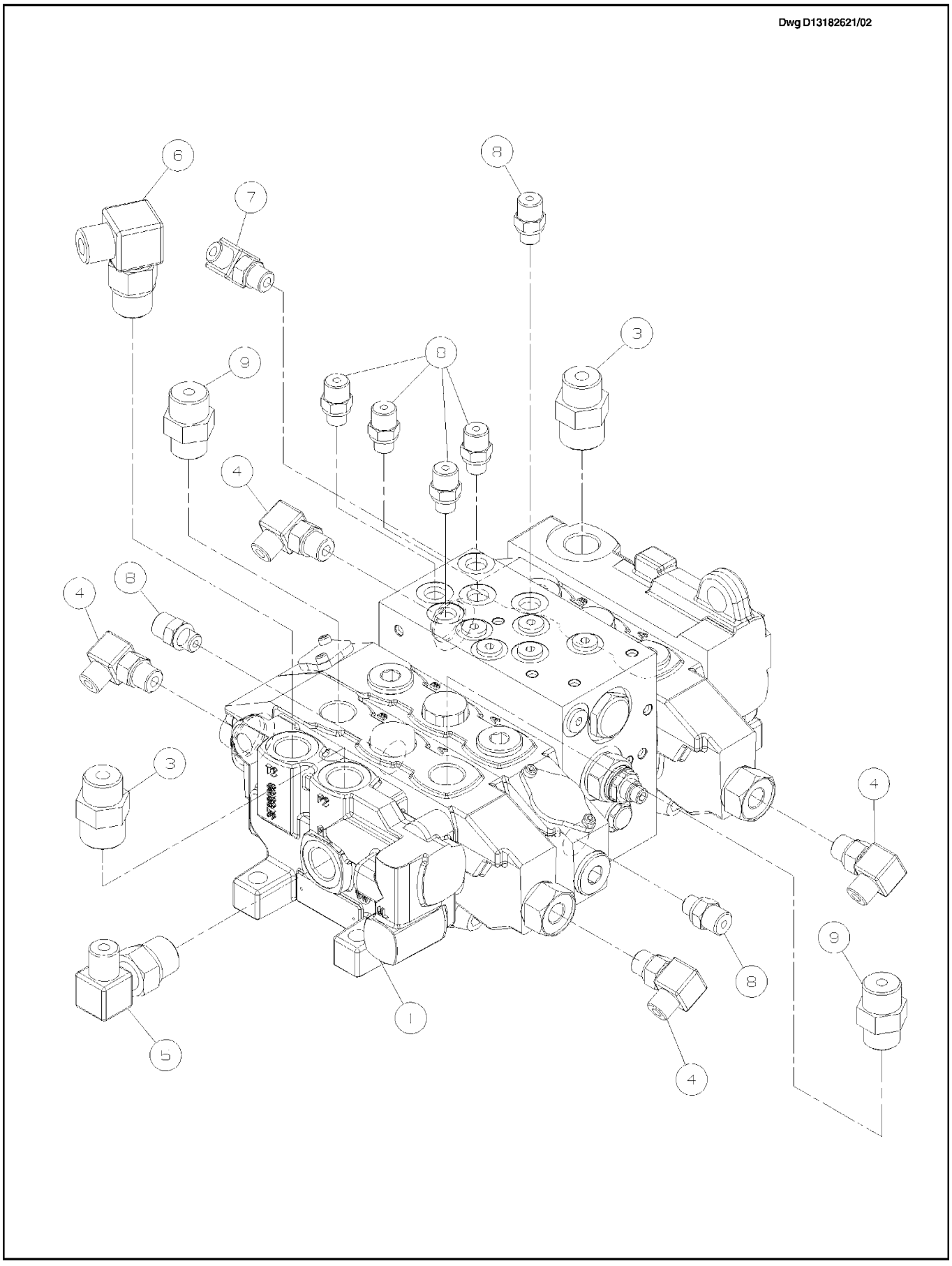
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CROWD/LIFT JOYSTICK ASSEMBLY - DUAL CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173539		
1	13170535	Joystick	1	
2	13170543	Joystick	1	
3	59922419	Adapter, Straight	12	
4	59918615	Adapter	2	
7	13195748	Dual Control Wire Harness	1	

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MAIN MANIFOLD ASSEMBLY - DUAL CONTROL



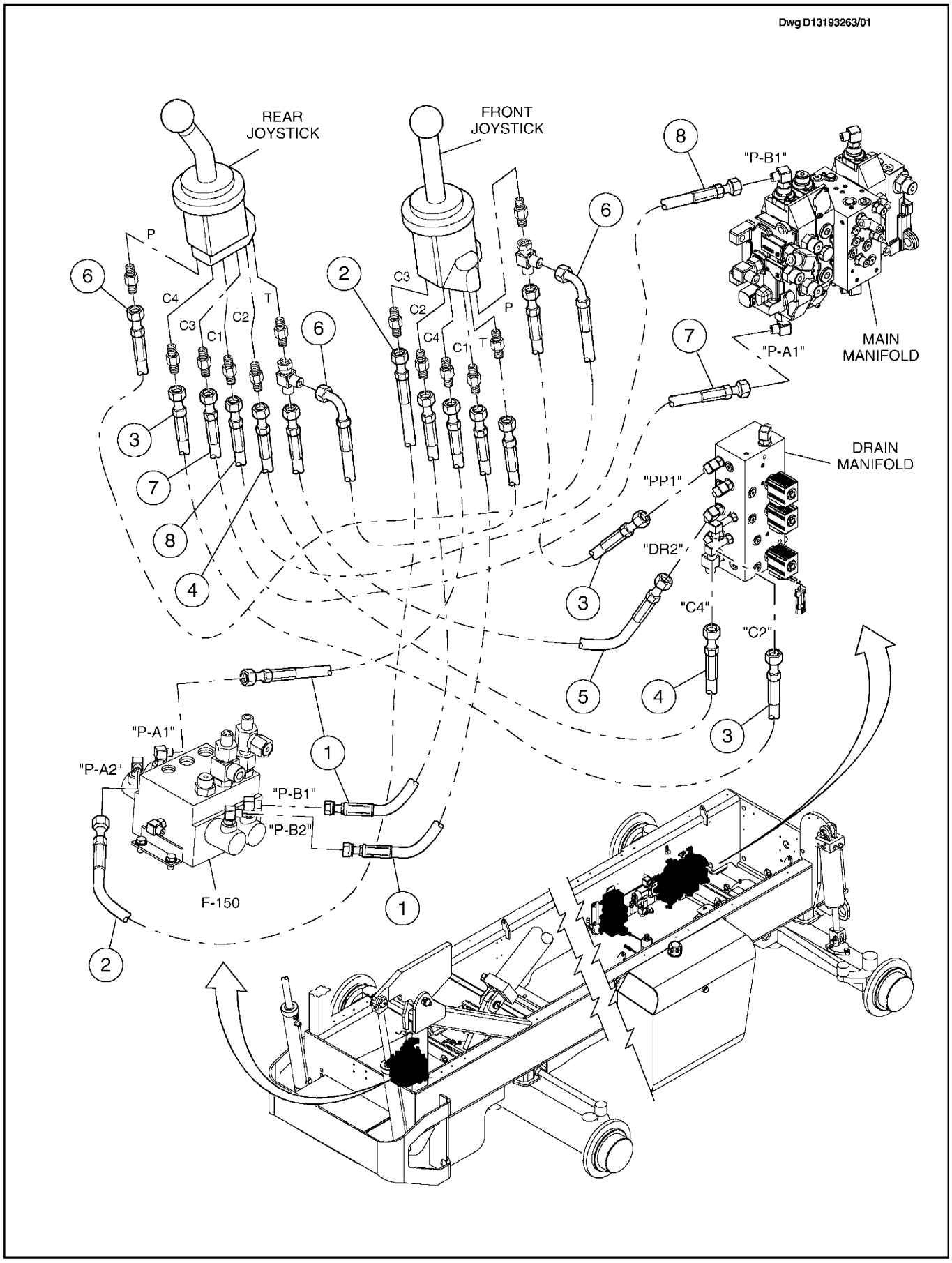
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MAIN MANIFOLD ASSEMBLY - DUAL CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173596		
1	13170550	Dual Control Manifold	1	
3	59922542	Adapter, Straight	2	
4	59922823	Adapter, 90°	4	
5	59922872	Adapter	1	
6	59922906	Fitting	1	
7	59922807	Adapter	1	
8	59929182	Adapter, Straight	7	
9	59922500	Adapter, Straight	2	

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JOYSTICK HOSING ASSEMBLY - DUAL CONTROL



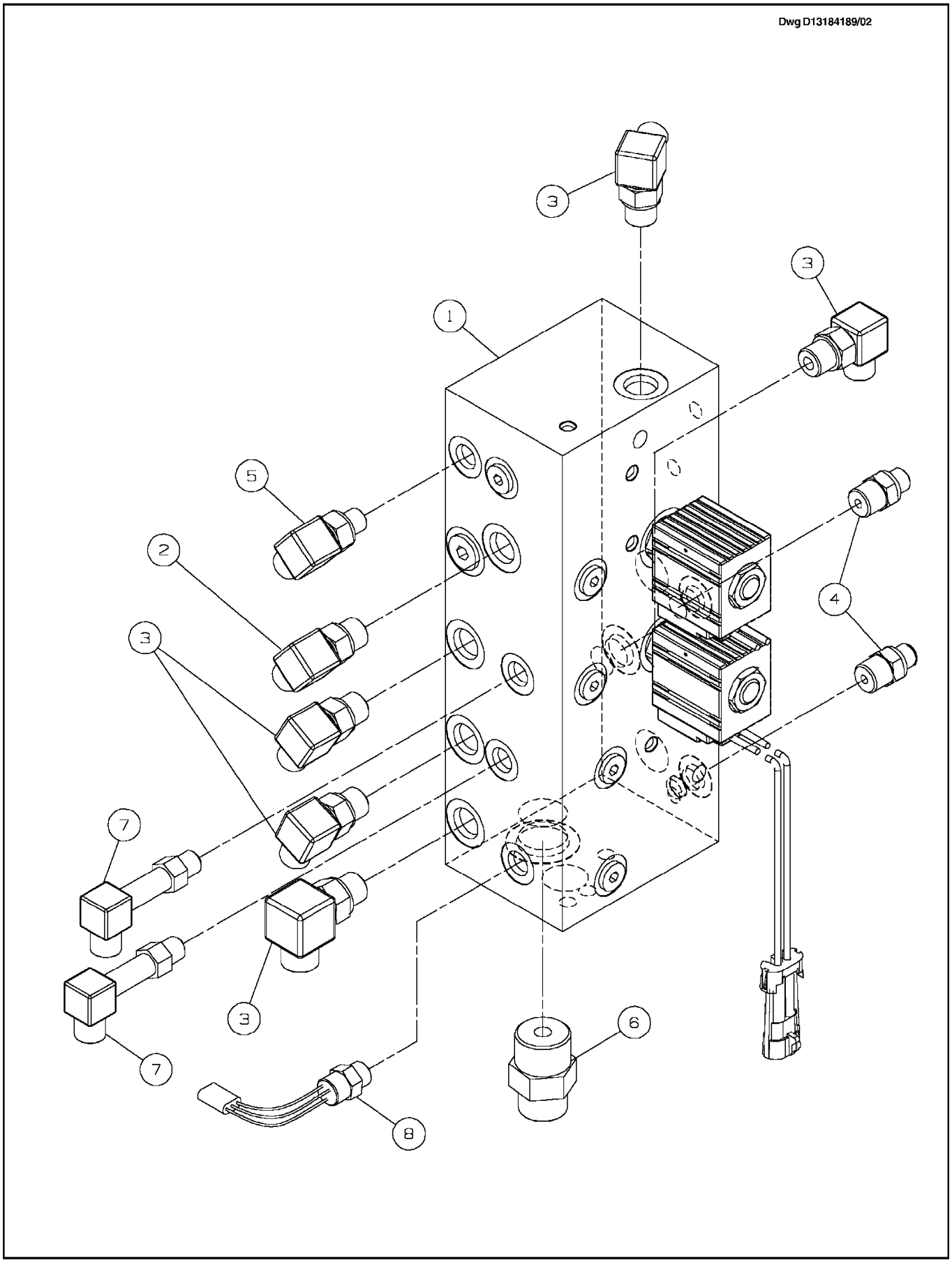
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JOYSTICK HOSING ASSEMBLY - DUAL CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13191150		
1	13181359	Hose Assembly	3	#4 x 166.0"
2	13193271	Hose Assembly	1	#4 x 170.0"
3	13193289	Hose Assembly	2	#4 x 49.0"
4	13193297	Hose Assembly	1	#4 x 45.0"
5	13181383	Hose Assembly	1	#4 x 44.0"
6	13181441	Hose Assembly	2	#4 x 18.0"
7	13193305	Hose Assembly	1	#4 x 72.0"
8	13181417	Hose Assembly	1	#4 x 59.0"

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DRAIN MANIFOLD ASSEMBLY - DUAL CONTROL



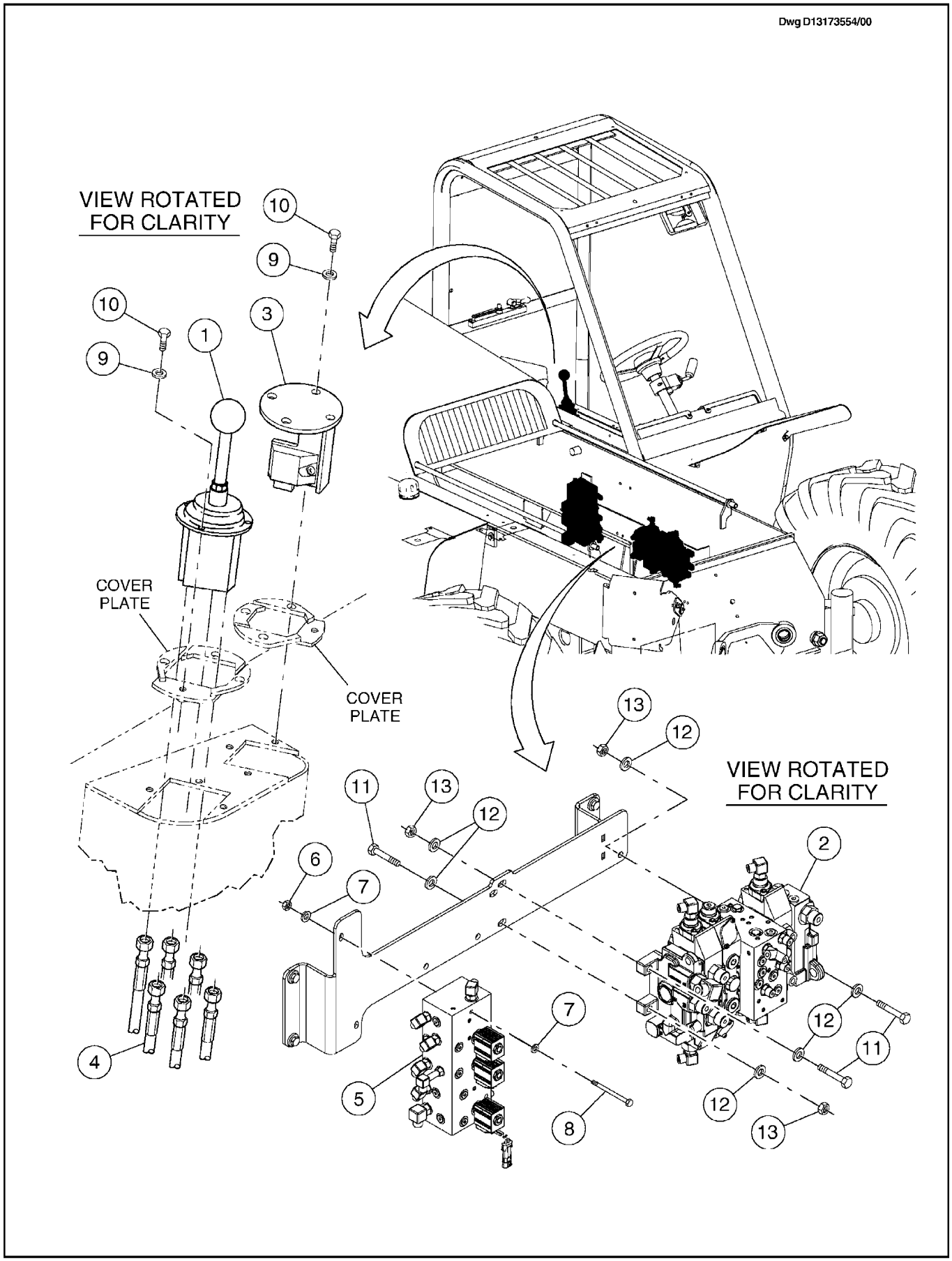
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DRAIN MANIFOLD ASSEMBLY - DUAL CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173588		
1	13199302	Hydraulic Drain Manifold	1	
2	59922864	Adapter, 90°	1	
3	59922823	Adapter, 90°	5	
4	59929182	Adapter, Straight	2	
5	59922807	Adapter	1	
6	59922542	Adapter, Straight	1	
7	59408526	Adapter	2	
8	13220405	Pressure Switch	1	

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JOYSTICK INSTALLATION - SINGLE CONTROL



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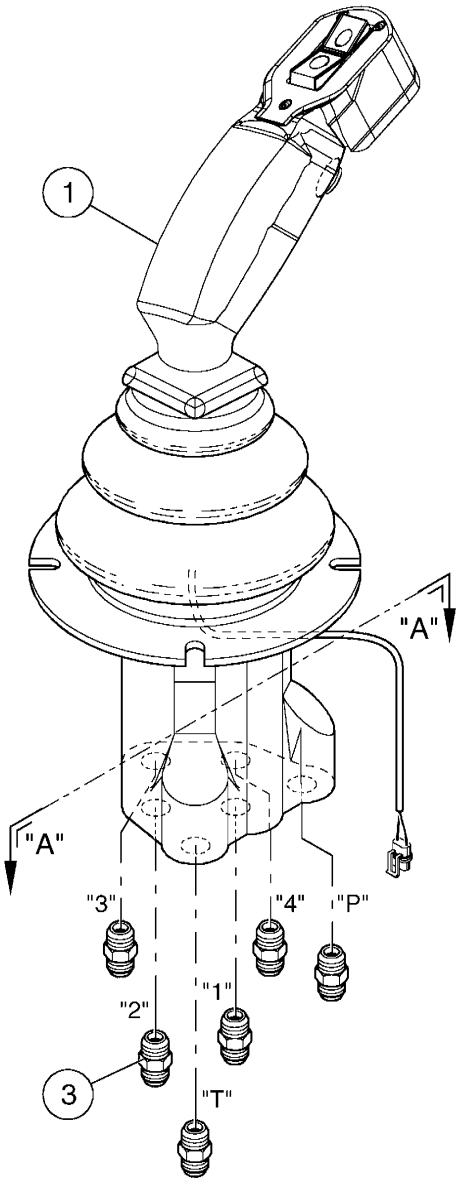
JOYSTICK INSTALLATION - SINGLE CONTROL

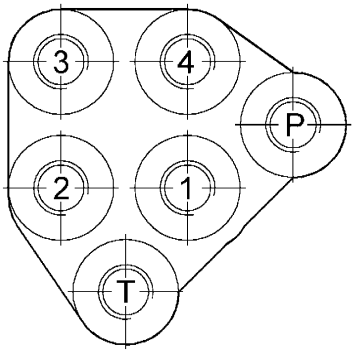
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173554		
1	**NSVA**	**Crowd/Lift Joystick Assembly - Single Control**	**1**	**See Section - H.25**
2	**NSVA**	**Main Manifold Assembly- Single Control**	**1**	**See Section - H.26**
3	NSS	Driver Board Assembly	1	
-	13224985	-Driver Valve	1	
4	**NSVA**	**Joystick Hosing Assembly - Single Control**	**1**	**See Section - H.27**
5	**NSVA**	**Drain Manifold Assembly - Single Control**	**1**	**See Section - H.28**
6	96704606	Hex Locknut	2	M8
7	96741038	Flatwasher	4	M8
8	96728787	Hex Bolt	2	M8-1.25 x 120
9	96741053	Flatwasher	8	M6
10	96720164	SHCS	8	M6-1.0 x 25
11	96702436	HHCS	3	
12	96711833	Flatwasher	6	M10
13	96704614	Nut	6	M10-1.5

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CROWD/LIFT JOYSTICK ASSEMBLY - SINGLE CONTROL

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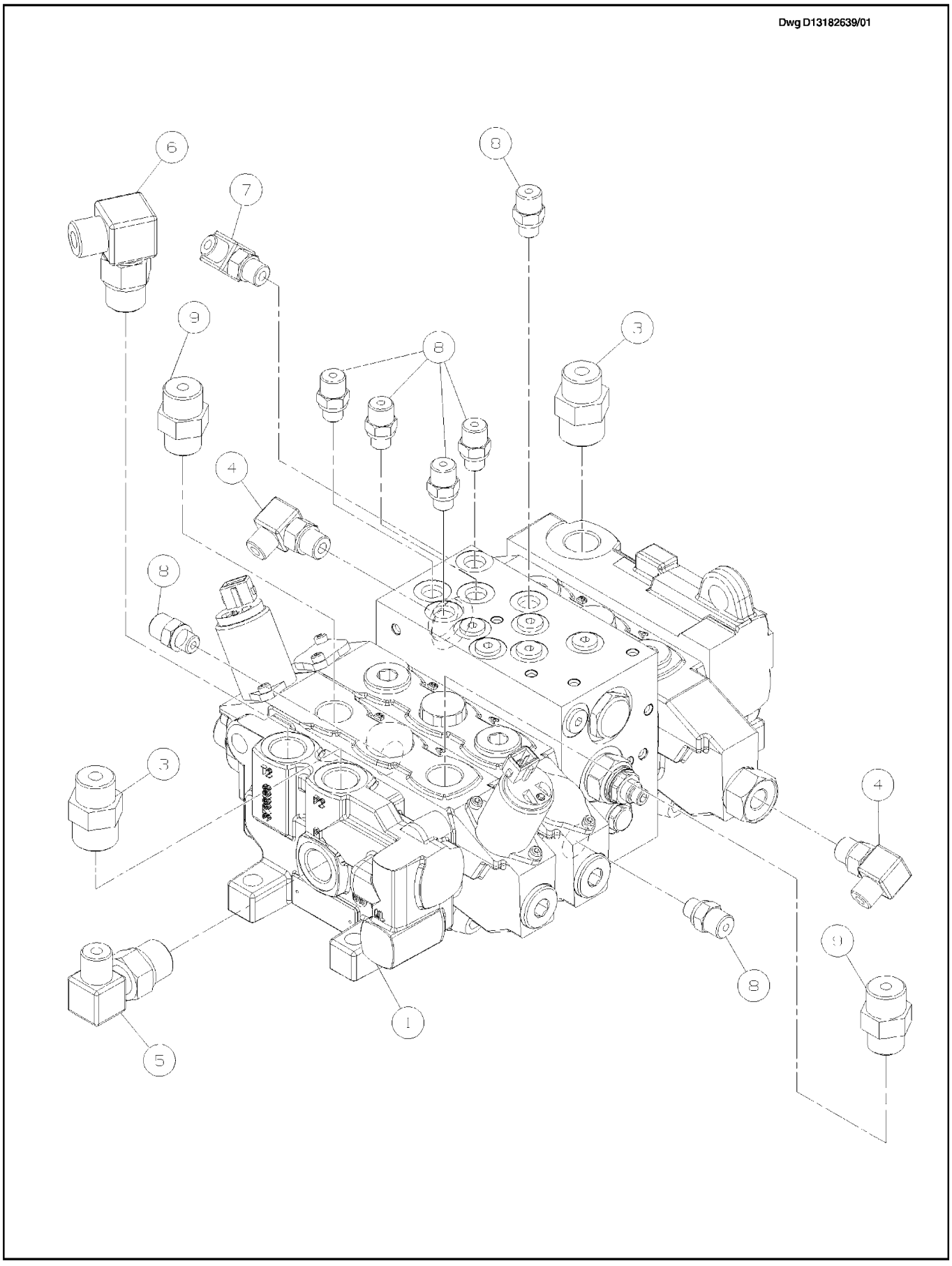
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CROWD/LIFT JOYSTICK ASSEMBLY - SINGLE CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173562		
1	13170576	Single Lever Joystick	1	
3	59922419	Adapter, Straight	6	

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MAIN MANIFOLD ASSEMBLY - SINGLE CONTROL



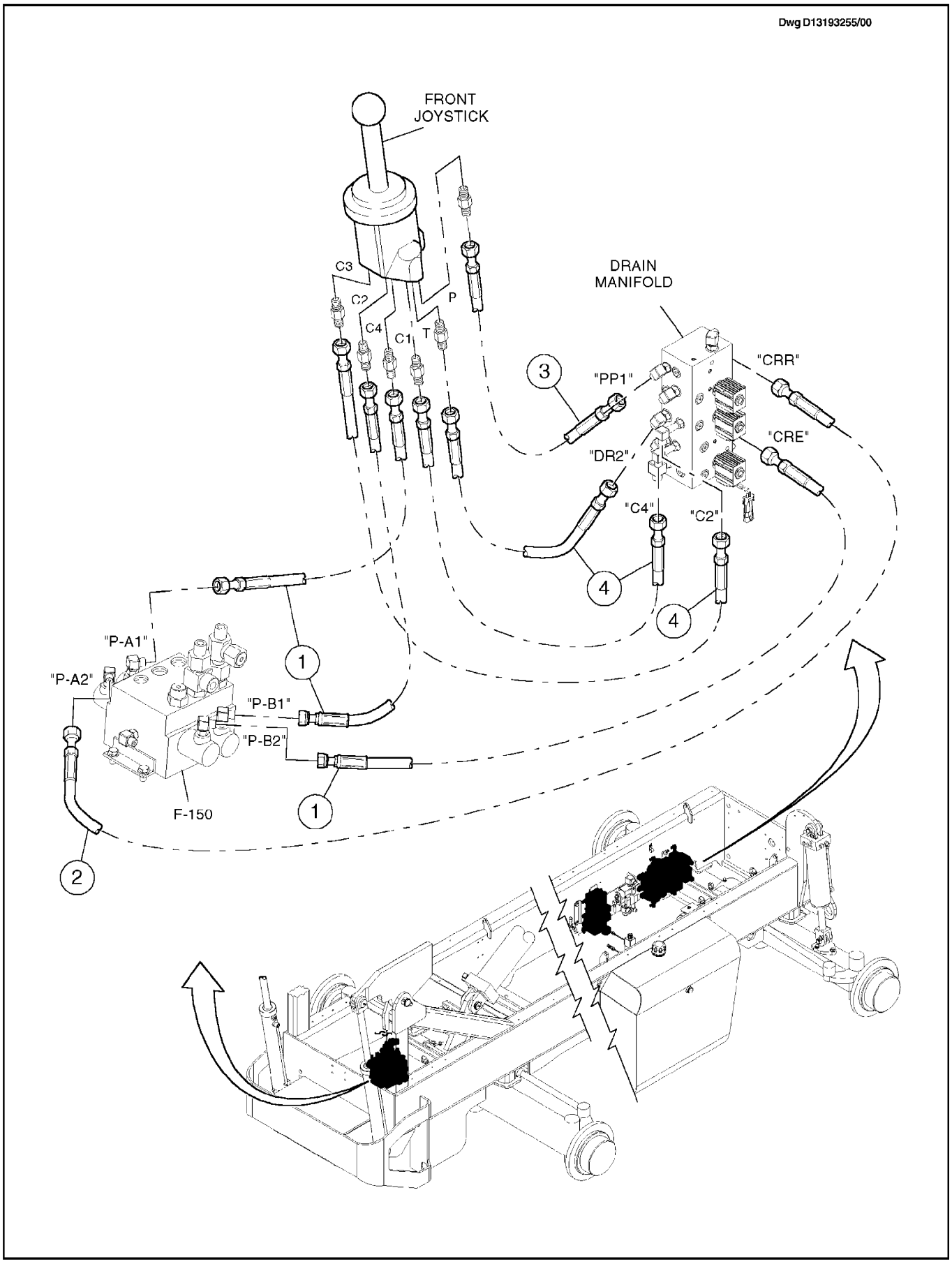
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MAIN MANIFOLD ASSEMBLY - SINGLE CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13173604		
1	13170568	Single Control Manifold	1	
3	59922542	Adapter, Straight	2	
4	59922823	Adapter, 90^0	2	
5	59922872	Adapter, 90^0	1	
6	59922906	Fitting	1	
7	59922807	Adapter	1	
8	59929182	Adapter, Straight	7	
9	59922500	Adapter, Straight	2	

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JOYSTICK HOSING ASSEMBLY - SINGLE CONTROL



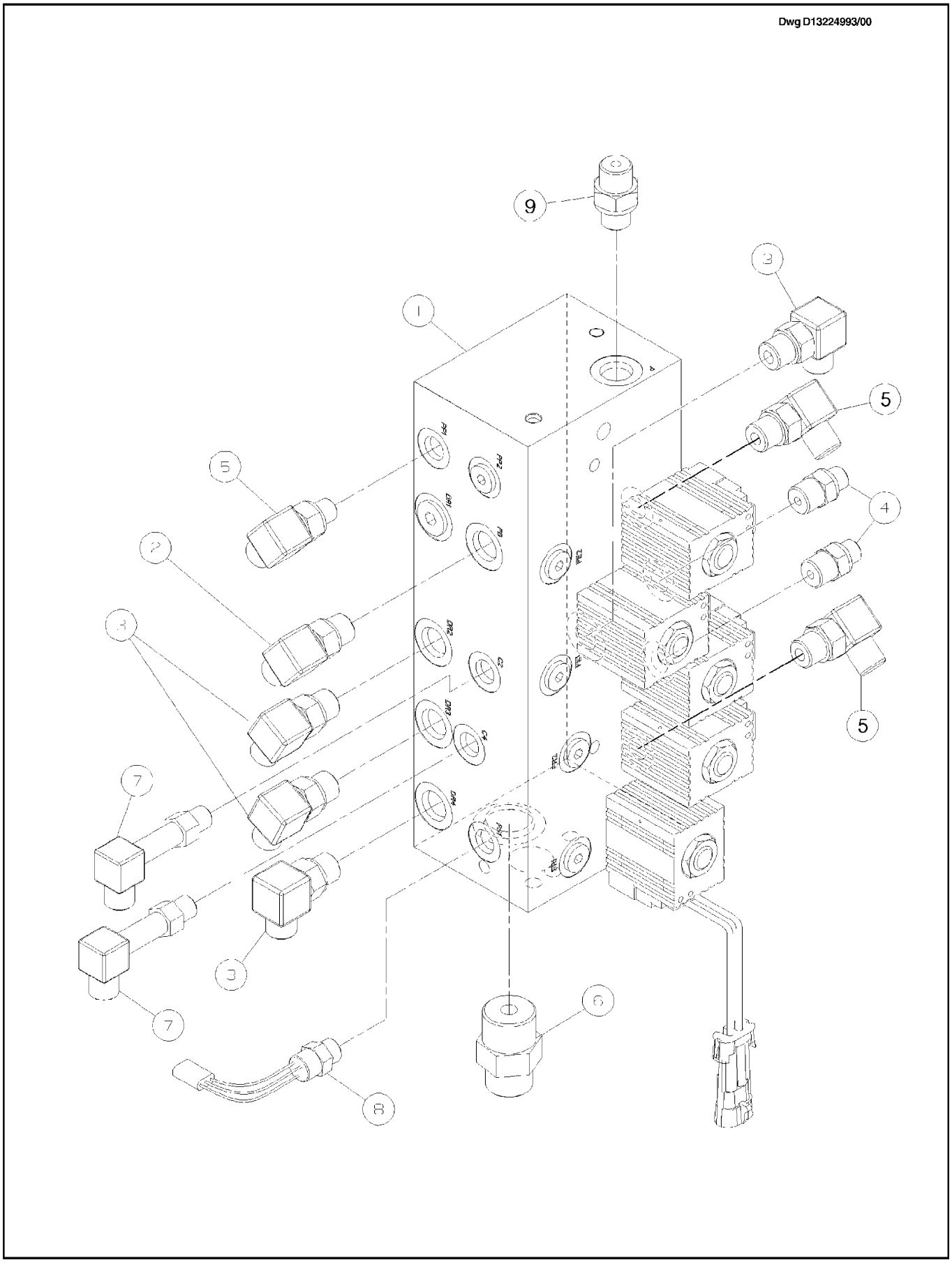
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JOYSTICK HOSING ASSEMBLY - SINGLE CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13193255		
1	13181359	Hose Assembly	3	#4 x 166.0"
2	13181367	Hose Assembly	1	#4 x 180.0"
3	13193289	Hose Assembly	1	#4 x 49.0"
4	13181383	Hose Assembly	3	#4 x 44.0"

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DRAIN MANIFOLD ASSEMBLY - SINGLE CONTROL



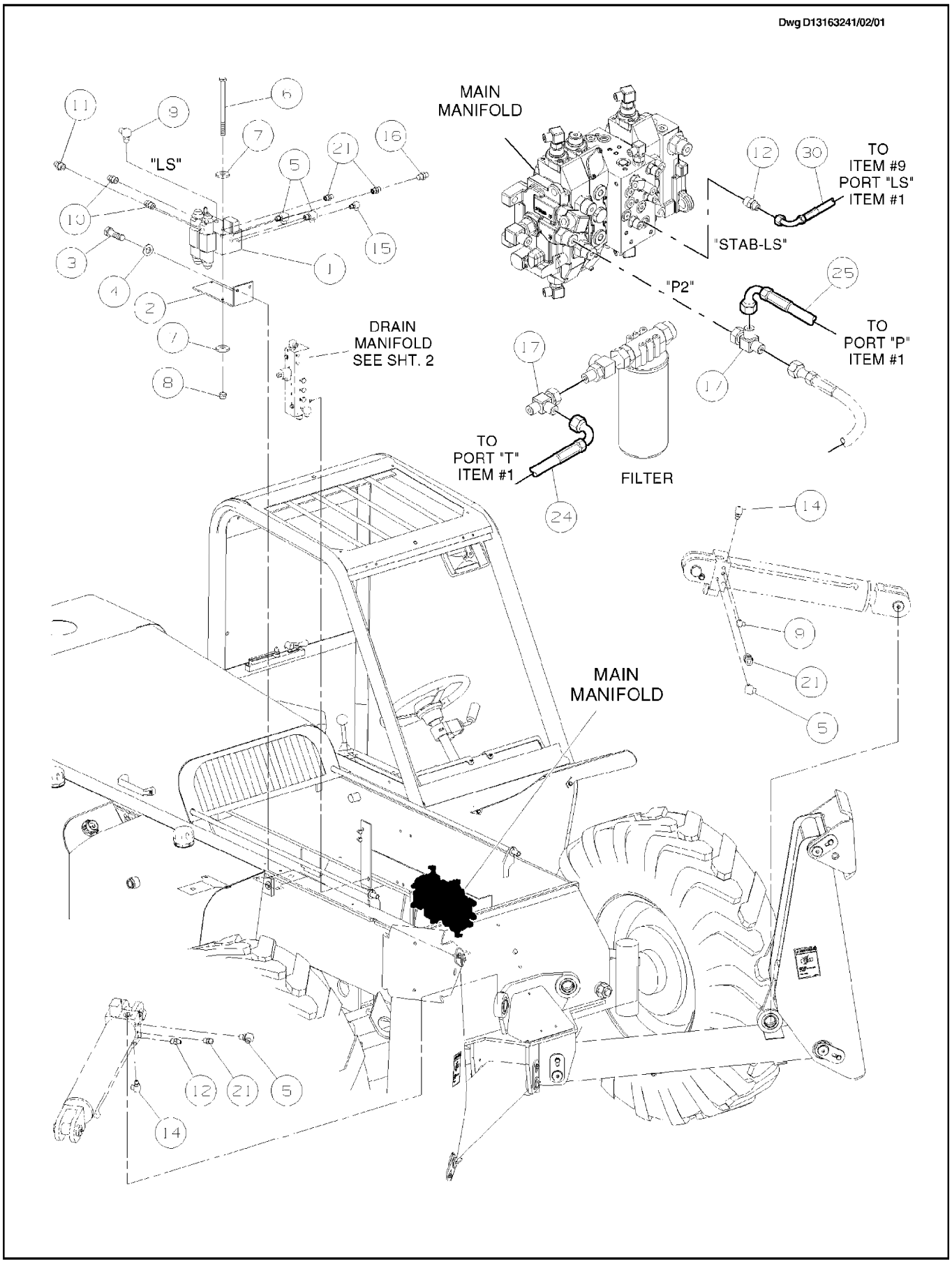
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DRAIN MANIFOLD ASSEMBLY - SINGLE CONTROL

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13224993		
1	59221838	Hydraulic Drain Manifold	1	
2	59922864	Adapter, 90^0	1	
3	59922823	Adapter, 90^0	4	
4	59929182	Adapter, Straight	2	
5	59922807	Adapter, 90^0	3	
6	59922542	Adapter, Straight	1	
7	59408526	Adapter, 90^0	2	
8	13220405	Pressure Switch	1	
9	59922419	Adapter, Straight	1	

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STABILIZER HYDRAULICS INSTALLATION - SHEET 1 OF 2



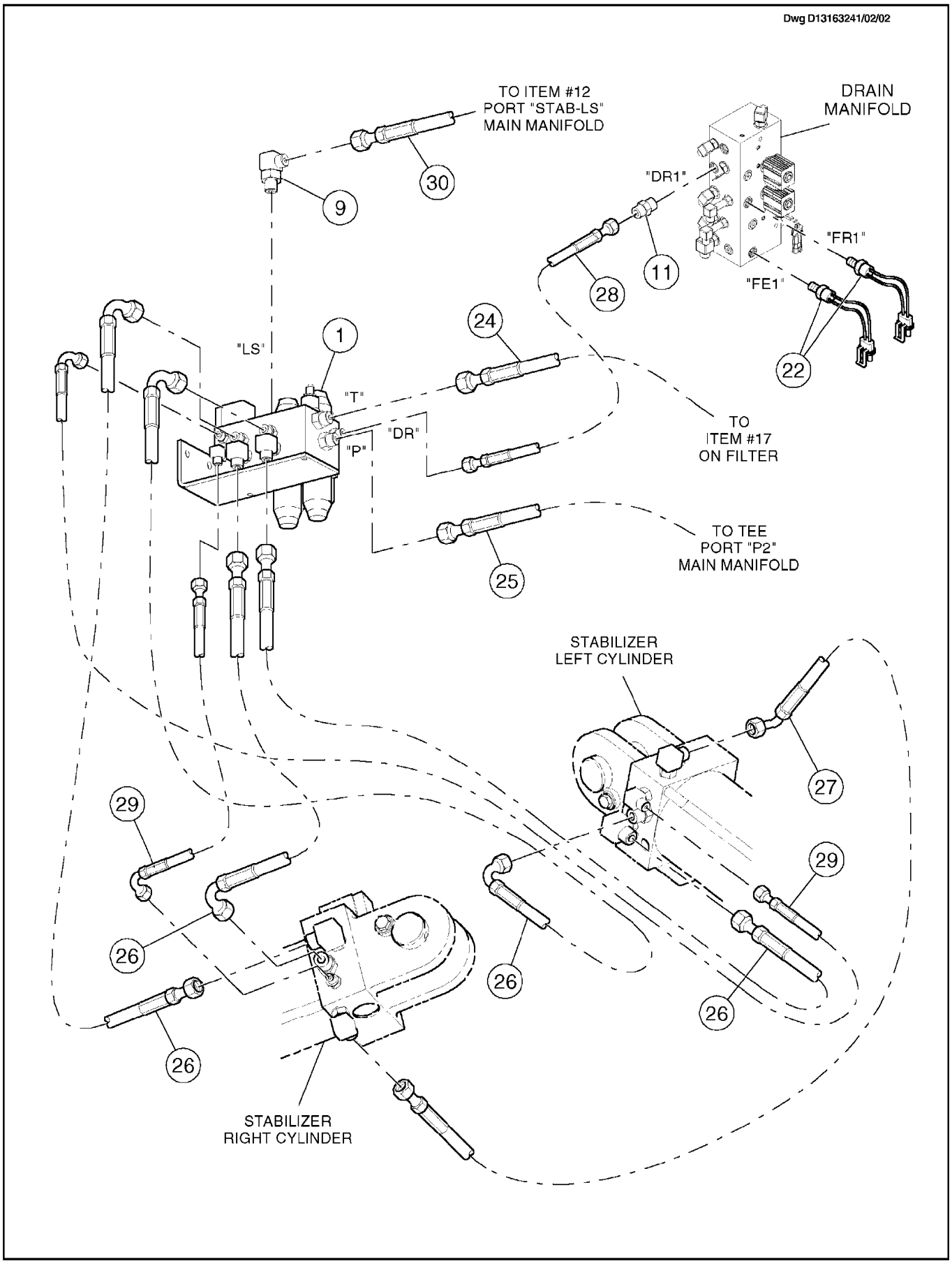
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STABILIZER HYDRAULICS INSTALLATION - SHEET 1 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13163241		
2	59169185	Manifold Mounting Bracket	1	
3	96702287	HHCS	2	M10 x 25
4	96741046	Flatwasher	2	M10
5	59922898	Adapter, 90°	4	
6	96728787	HHCS	2	M8-1.25 x 120
7	96712674	Hardened Flatwasher	4	
8	96728431	Locknut	2	M8-1.25
9	59922807	Adapter	2	
10	59922542	Adapter, Straight	2	
12	59929182	Adapter, Straight	2	
14	59922864	Adapter, 90°	2	
15	59922823	Adapter, 90°	1	
16	59922419	Adapter, Straight	1	
17	59923805	Adapter	2	
21	59922492	Adapter, Straight	4	
24	59282269	Hose Assembly	1	12.0"
25	13191127	Hose Assembly	1	#10 x 29.0"
30	13191101	Hose Assembly	1	#4 x 24.0"

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STABILIZER HYDRAULICS INSTALLATION - SHEET 2 OF 2



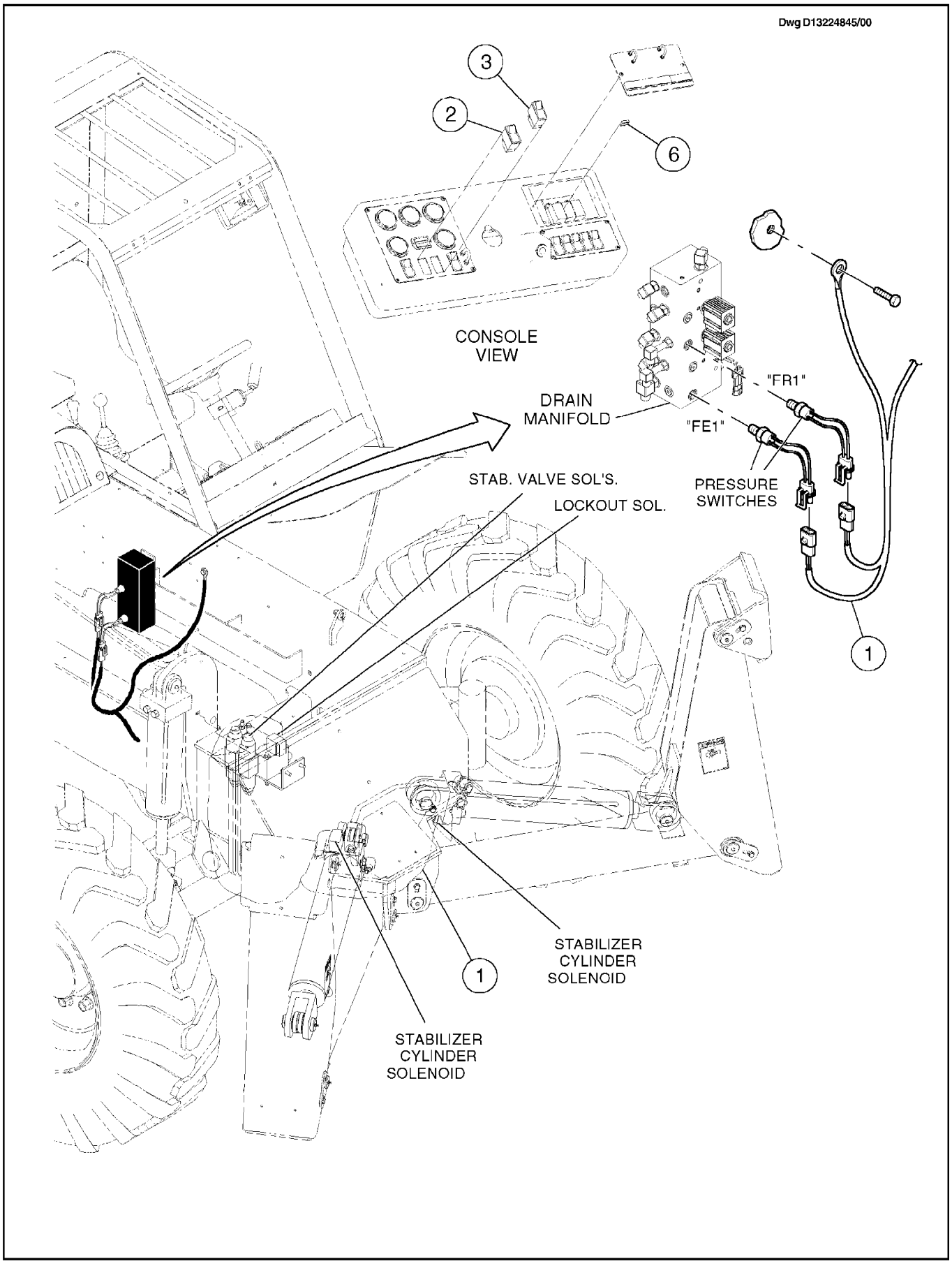
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STABILIZER HYDRAULICS INSTALLATION - SHEET 2 OF 2

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	13173331	Stabilizer Manifold	1	
9	59922807	Adapter	2	
11	59919670	Adapter, Straight	2	
22	59157792	Brake Light Switch	2	
24	59282269	Hose Assembly	1	12.0"
25	13191127	Hose Assembly	1	#10 x 29.0"
26	13043559	Hose Assembly	4	57.0"
27	59199000	Hose Assembly	1	88.0"
28	13191093	Hose Assembly	1	#6 x 58.0"
29	59175331	Hose Assembly	2	56.0"
30	13191101	Hose Assembly	1	#4 x 24.0"

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STABILIZER ELECTRICAL ASSEMBLY



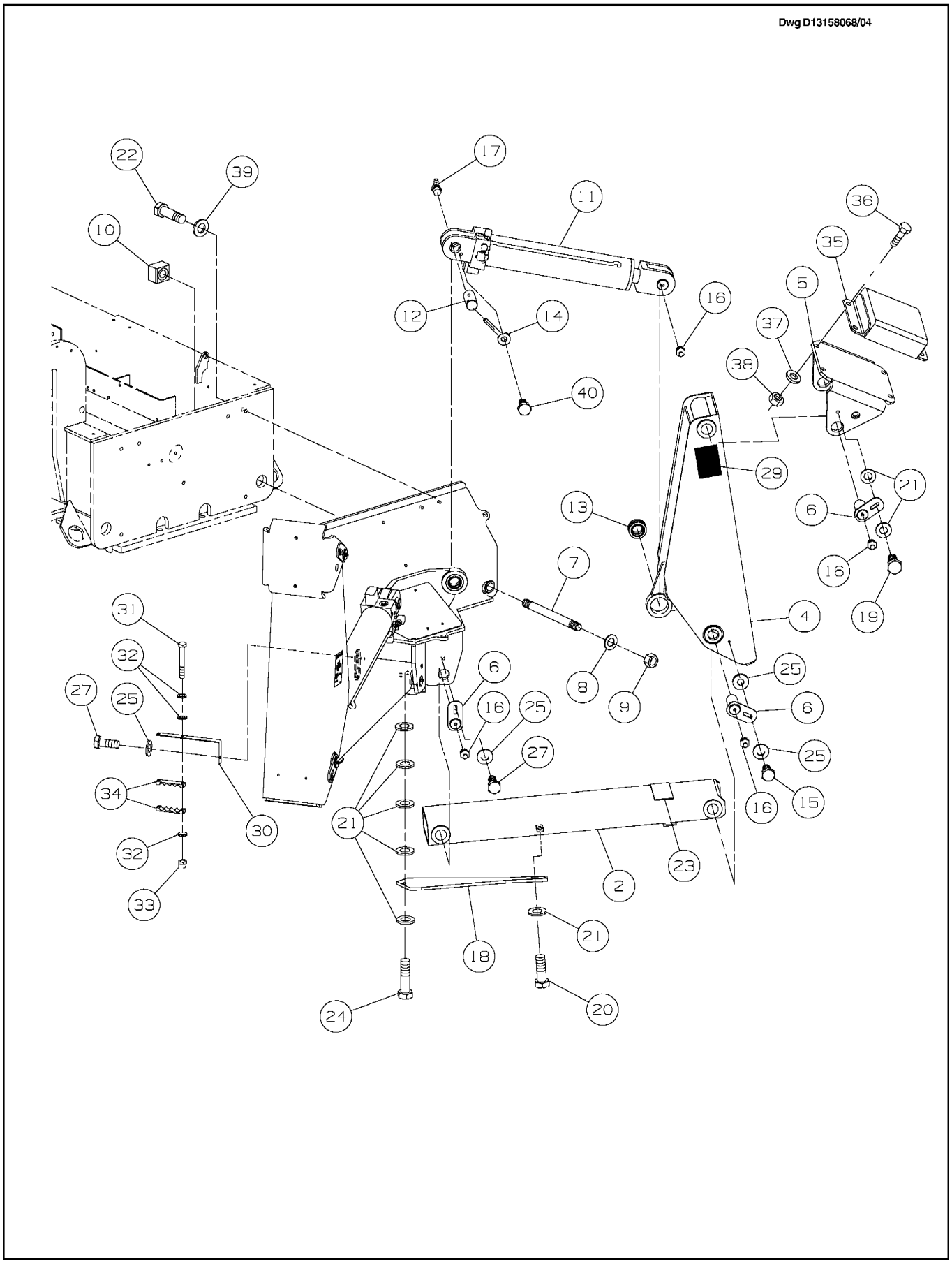
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STABILIZER ELECTRICAL ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13224845		
1	59281972	Stabilizer Chassis Wire Harness	1	
2	59114140	Left Stabilizer Switch	1	
3	59114157	Right Stabilizer Switch	1	
6	59325712	Fuse	1	10 Amp

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STABILIZER ASSEMBLY



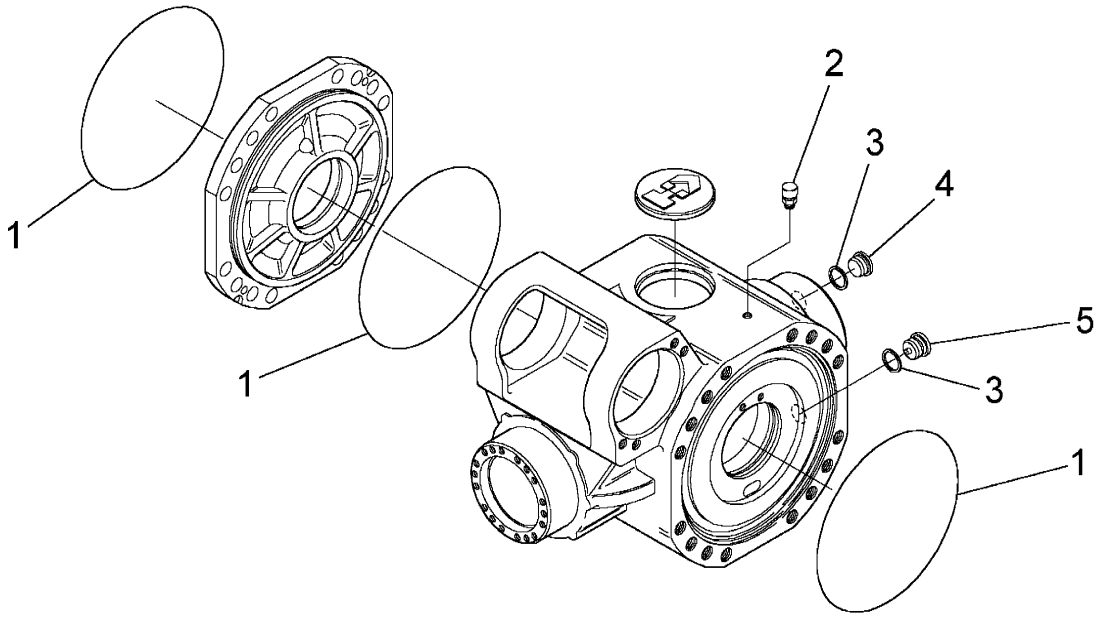
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STABILIZER ASSEMBLY

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13158068		
2	59167759	Arm Support Assembly	2	
4	59167734	Swing Arm	2	
5	13161898	Foot Pad	2	
6	59167932	Pin	12	
7	59167957	Stud	2	1-1/4-7
8	95987392	Hardened Flatwasher	2	1.125
9	59327932	Hex Nut	2	1 1/4-7
10	59136879	Outrigger Nut	2	
11	**59136937**	**Stabilizer Cylinder**	**2**	**See Breakdown - I.10**
12	59276469	Cylinder Pivot Pin	4	
13	58951674	Spherical Bearing	4	
14	59455154	Anchor	4	
15	96702279	HHCS	4	M10 x 20
16	95201547	Fitting	14	
17	95208971	Fitting	2	
18	59168005	Springbar	2	
19	96701495	HHCS	4	M12 x 25
20	96702329	HHCS	2	M12 x 35
21	96738596	Hardened Flatwasher	20	M12
22	96720008	HHCS	2	M24-3.0 x 65
23	59251694	Wear Pad	2	
24	96701966	HHCS	2	M12 x 45
25	96741046	Flatwasher	12	M10
27	96702287	HHCS	4	M10 x 25
29	58965526	Decal: Crush Warning	4	
30	59212399	Hose Bracket	2	
31	96728514	HHCS	4	M6-1.0 x 45
32	96741053	Flatwasher	12	M6
33	96702873	Locknut	4	M6
34	59475152	Hose Clamp	4	
35	59285106	Stabilizer Pad	2	
36	96703129	HHCS	8	
37	96701552	Flatwasher	8	M16
38	96703657	Nut	8	M16
39	96738646	Hardened Flatwasher	2	M24
40	96743216	SHCS	4	M10 x 12

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN -SHEET 1 OF 5



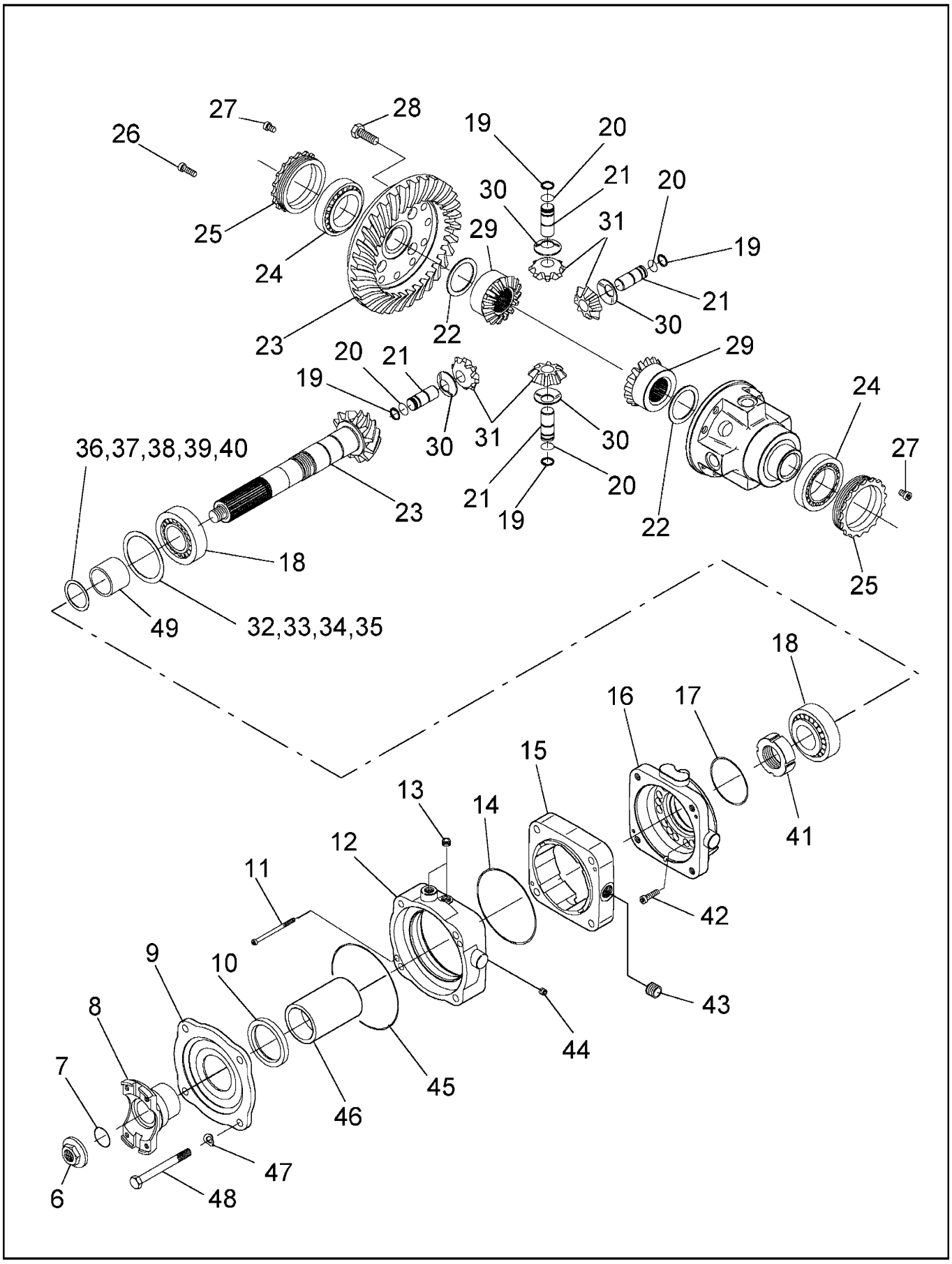
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FRONT AXLE (59251637) - INTERNAL BREAKDOWN -SHEET 1 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59251637		
*	**N.SV.A.**	**Axle Drive Housing**	-	
1	59793521	O-ring	3	
2	59146233	Vent	1	
3	59794123	Seal Washer	2	
4	59794115	Fill Plug	1	
5	59146241	Magnetic Drain Plug	1	

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN -SHEET 2 OF 5



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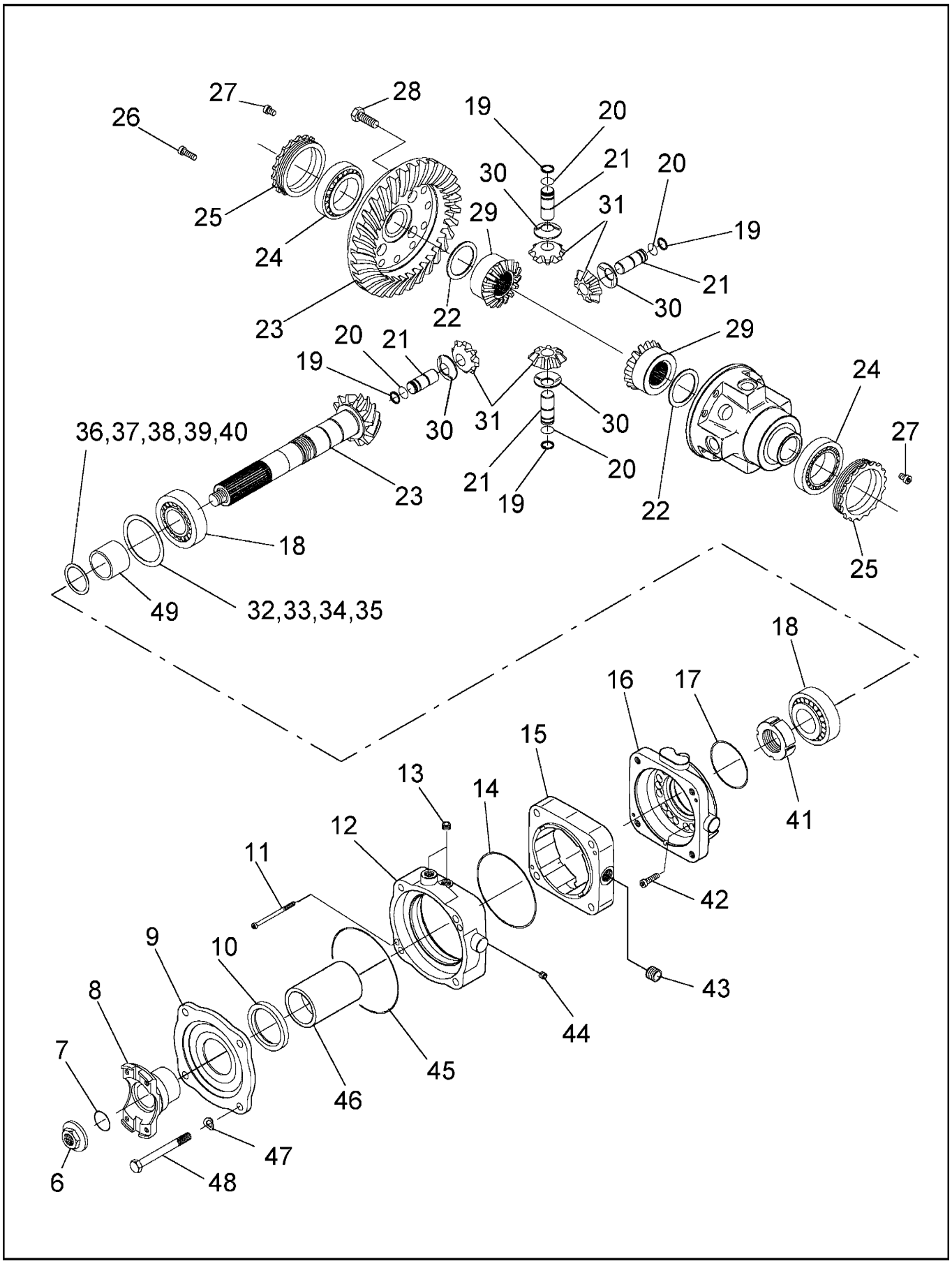
FRONT AXLE (59251637) - INTERNAL BREAKDOWN -SHEET 2 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
*	**N.SV.A.**	**Differential Pinion Assembly**	-	
6	59146415	Nut	1	
7	59146258	O-ring	1	
8	59146407	Flange	1	
9	59133421	Cover	1	
10	59153775	Seal	1	
11	59153825	Bolt	2	
12	59133439	Cover	1	
13	59790923	Plug	4	
14	59153916	Ring	1	
15	59153924	Spacer	1	
16	59154005	Cover	1	
17	59154013	O - Ring	1	
18	59769661	Taper Roller Bearing	2	
19	59146340	Circlip	4	
20	59146332	Circlip	4	
21	59146357	Pin	4	
22	59146316	Friction Washer	2	
23	59194241	Bevel Gear Set	1	
24	59793786	Taper Roller Bearing	2	
25	59146274	Ring Nut	2	
26	59146282	Cylinder Bolt	4	
27	59146290	Cylinder Bolt	2	
28	54632781	Bolt	12	
29	59146324	Differential Side Gear	2	
30	59146365	Friction Washer	4	
31	59146423	Differential Pinion	4	
32	59154120	Shim	1	(0.2 mm)
33	59154138	Shim	1	(0.3 mm)
34	59154146	Shim	1	(0.15 mm)
35	59154153	Shim	1	(0.1 mm)
36	59154161	Shim	1	(0.1 mm)
37	59154179	Shim	1	(0.15 mm)
38	59154187	Shim	1	(0.2 mm)
39	59794149	Shim	1	(0.4 mm)
40	59154195	Shim	1	(0.5 mm)

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 2 OF 5 - Continued



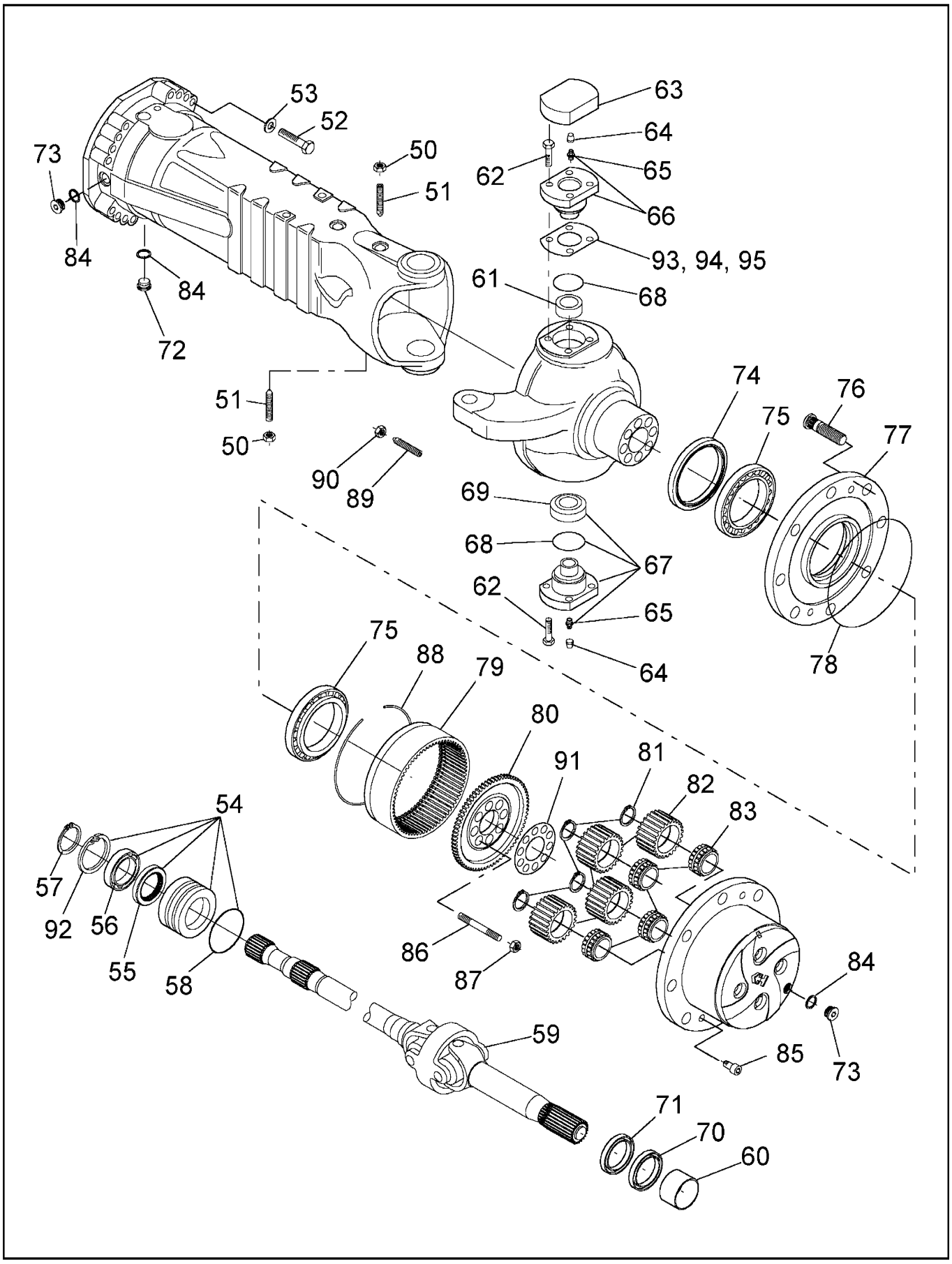
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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 2 OF 5 - Continued

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
41	59769653	Ring Nut	1	
42	59153999	Cylinder Bolt	18	
43	59793109	Plug	4	
44	54705421	Bolt	2	
45	59153783	O - Ring	1	
46	54705439	Spacer	1	
47	59769356	Spring Washer	4	
48	54710223	Bolt	4	
49	59146381	Spacer	1	
**	59243121	Kit, Differential (Items 19,20,21,22,29,30,31and Carrier)	A/R	

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 3 OF 5



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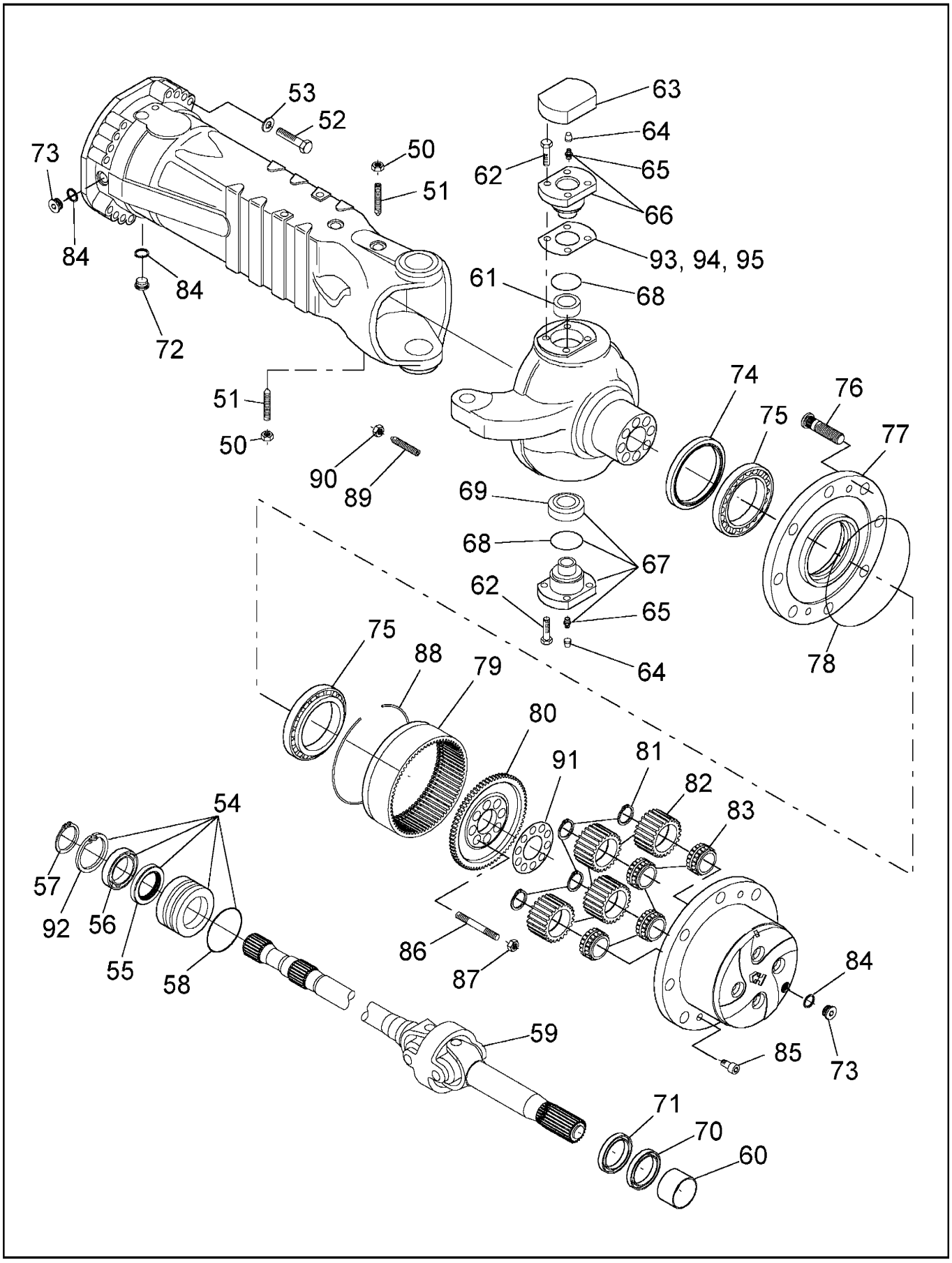
FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 3 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
*	**N.SV.A.**	**Axle Steering Assembly**	-	
50	59791004	Nut	4	
51	59194134	Grub Bolt	4	
52	59194142	Bolt	32	
53	59146456	Flat Washer	32	
54	59194159	Reduction Bushing	2	
55	58804444	Seal	2	
56	58804451	Ball Bearing	2	
57	59790865	Circlip	2	
58	59194167	O-ring	2	
59	59194175	Joint	2	
60	59146480	Thrust Bushing	2	
61	59146498	Outer Race	2	
62	59146308	Bolt	20	
63	59146514	Cover	2	
64	59079822	Grease Fitting Cap	4	
65	59769364	Grease Fitting	4	
66	59242552	Pivot Pin	2	
67	59242594	Pivot Pin	2	
68	59146548	Seal	4	
69	59146555	Articulation	2	
70	59146571	Seal	2	
71	59146589	Dust Excluder	2	
72	59146241	Magnetic Drain Plug	2	
73	59794115	Oil Fill Plug	4	
74	59146605	Seal	2	
75	59146613	Bearing	4	
76	59079517	Wheel Stud	20	
77	59246819	Wheel Hub	2	
78	58974155	O-ring	2	
79	59243162	Ring Gear	2	
80	59242834	Ring Gear Support	2	
81	59146654	Circlip	6	
82	59146662	Planet Gear	6	
83	59146670	Bearing	6	
84	59794123	Seal Washer	6	
85	59246835	Countersunk Bolt	4	

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 3 OF 5 - Continued



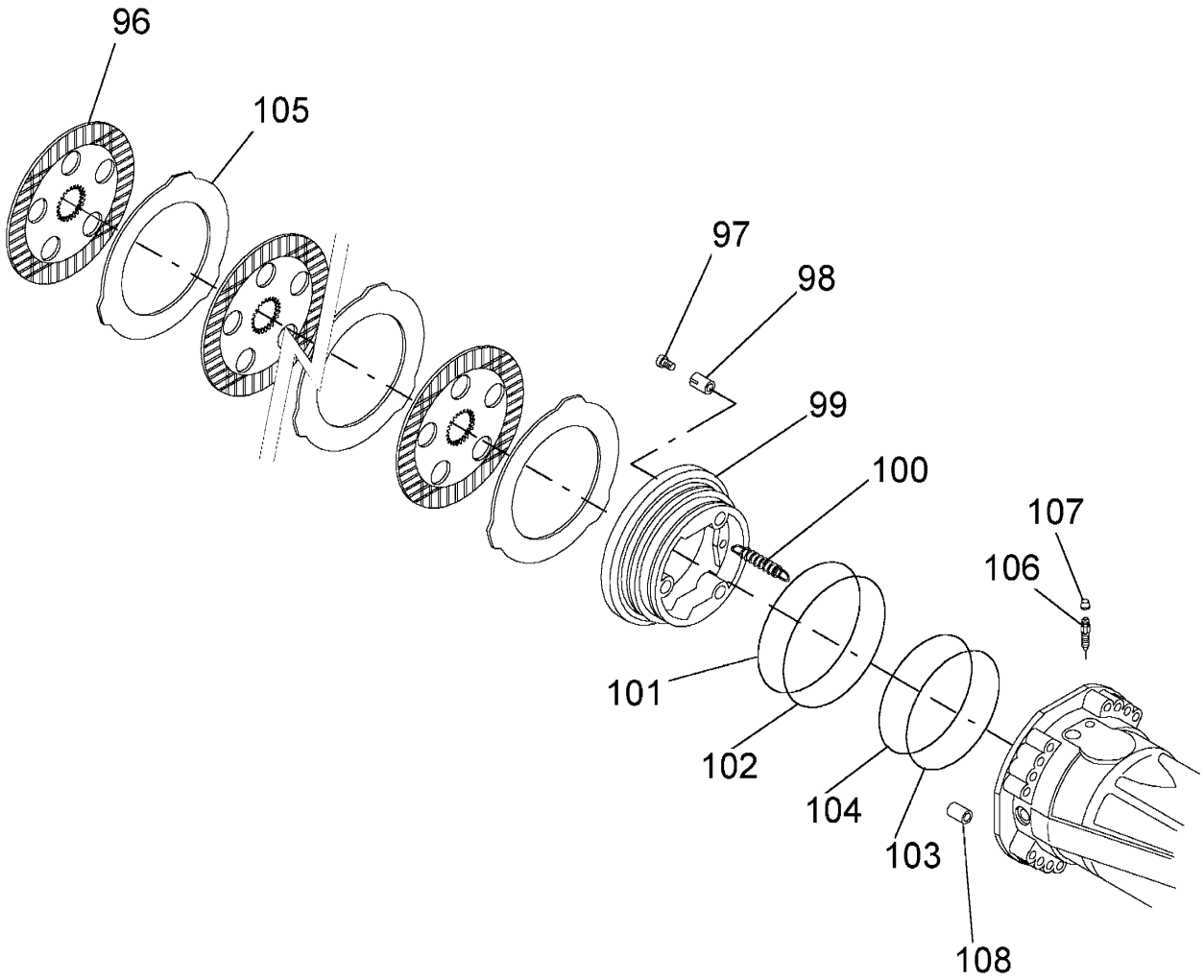
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FRONT AXLE (59251637) - INTERNAL BREAKDOWN -SHEET 3 OF 5 - Continued

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
86	59153601	Stud	16	
87	59153619	Nut	16	
88	59153627	Circlip	2	
89	59153635	Adjusting Bolt	2	
90	59153643	Nut	2	
91	59153650	Locking Plate	2	
92	59790824	Circlip	2	
93	59242537	Shim	1	0.15mm
94	59243139	Shim	1	0.20mm
95	59243147	Shim	1	0.50mm
**	54710157	Planet Gear Carrier Kit (Items 79,80,81,82,83,88 & Gear Carrier)	1	

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 4 OF 5



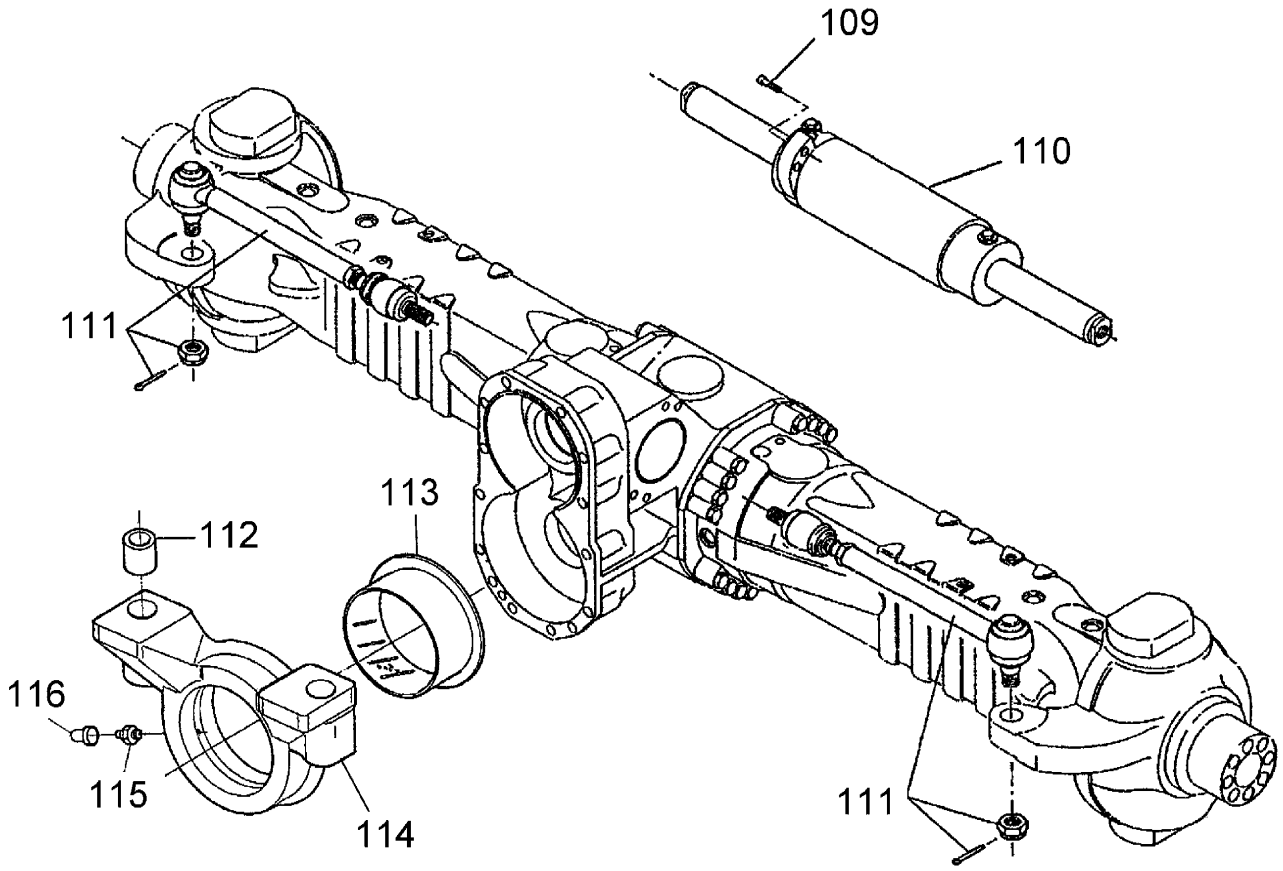
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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 4 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
*	**N.SV.A.**	**Brake Disc Assembly**	-	
96	54705447	Brake Disc	6	
97	59153676	Adjusting Bolt	6	
98	59153684	Spring	6	
99	59194191	Piston	2	
100	59153700	Spring	6	
101	59153718	Back-up Ring	2	
102	59153726	O-ring	2	
103	59194209	Back-up Ring	2	
104	59153742	O-ring	2	
105	59153759	Intermediate Brake Disc	8	
106	59793265	Bleeding Bolt	2	
107	59079822	Bleeding Bolt Cap	2	
108	59769935	Dowel	2	
**	59243097	Kit, Piston (Items 99,100,101,102,103,104)	1	

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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 5 OF 5



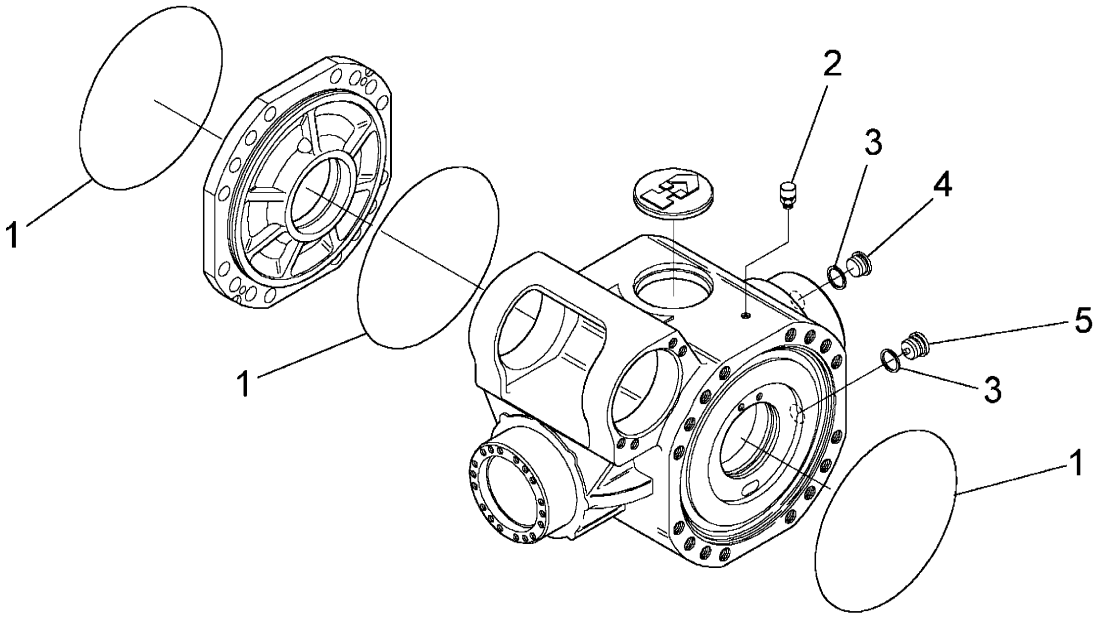
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FRONT AXLE (59251637) - INTERNAL BREAKDOWN - SHEET 5 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
109	59154039	Cylinder Bolt	4	
110	59194217	Cylinder	1	
-	59141986	-Seal Kit	1	
111	59194225	Articulated Tie Rod	2	
112	59154070	Reduction Bushing	4	
113	59154088	Thrust Bushing	2	
114	59194233	Support	2	
115	59769364	Grease Fitting	2	
116	59079822	Grease Fitting Cap	2	

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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 1 OF 5



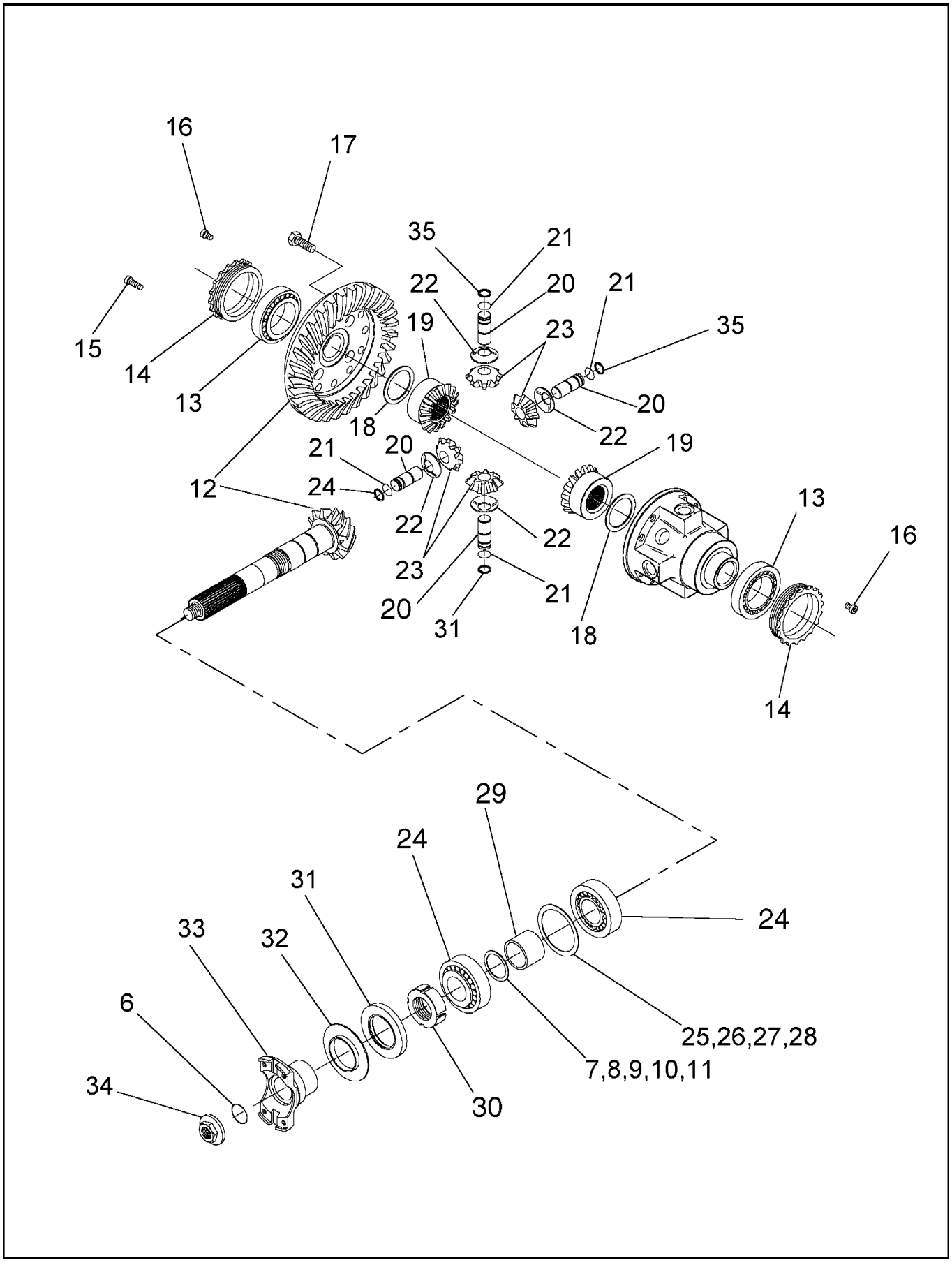
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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 1 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59251645		
*	**N.SV.A.**	**Axle Drive Housing**	-	
1	59793521	O-ring	3	
2	59146233	Vent	1	
3	59794123	Seal Washer	2	
4	59794115	Fill Plug	1	
5	59146241	Magnetic Drain Plug	1	

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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 2 OF 5



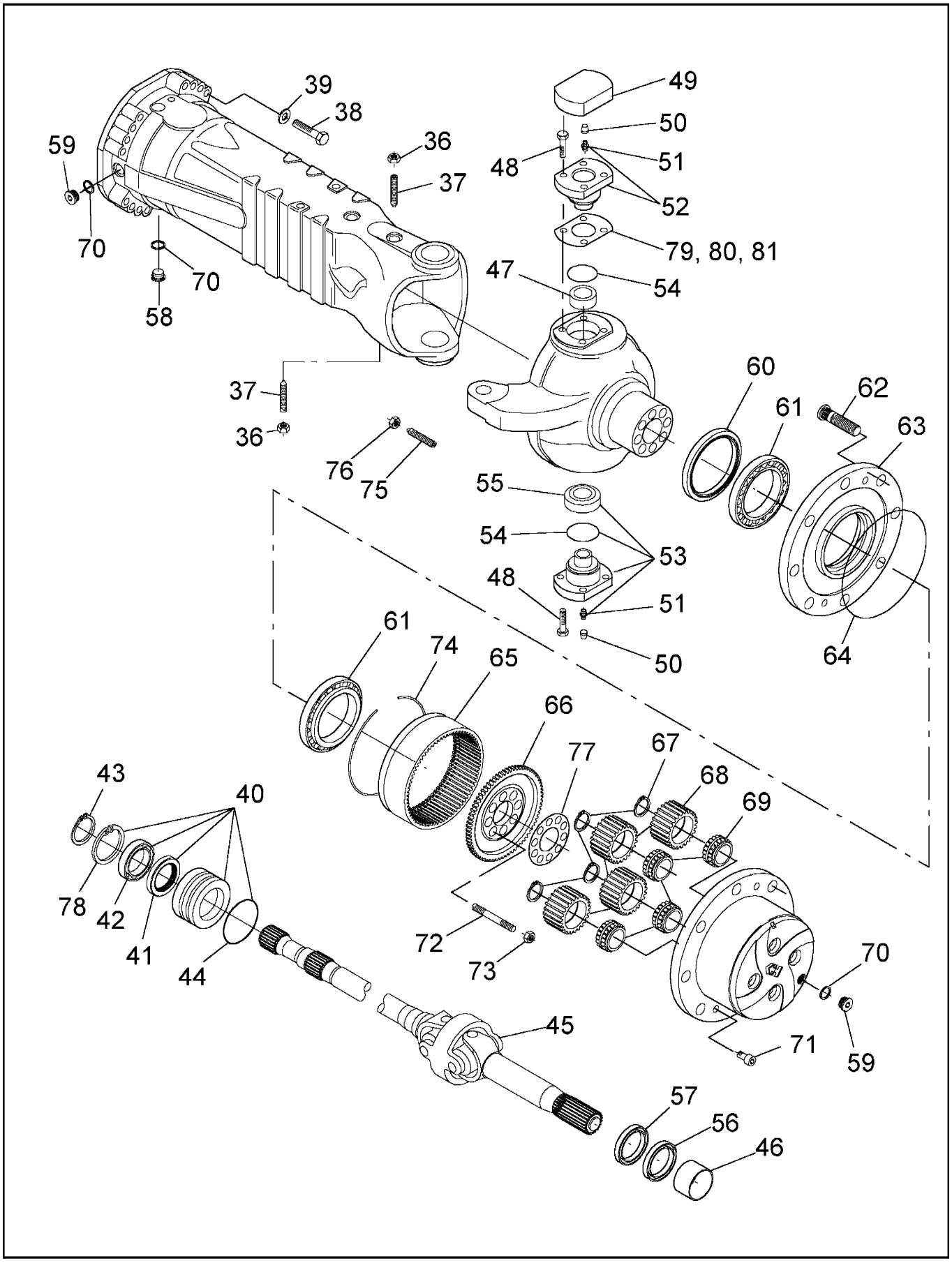
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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 2 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
*	**N.SV.A.**	**Differential Pinion Assembly**	-	
6	59146258	O-ring	1	
7	59154161	Shim	1	(0.1 mm)
8	59154179	Shim	1	(0.15 mm)
9	59154187	Shim	1	(0.2 mm)
10	59794149	Shim	1	(0.4 mm)
11	59154195	Shim	1	(0.5 mm)
12	59194100	Bevel Gear Set	1	
13	59793786	Taper Roller Bearing	2	
14	59146274	Ring Nut	2	
15	59146282	Cylinder Bolt	2	
16	59146290	Cylinder Bolt	2	
17	54632781	Bolt	12	
18	59146316	Friction Washer	2	
19	59146324	Differential Side Gear	2	
20	59146357	Pin	4	
21	59146332	Circlip	4	
22	59146365	Friction Washer	4	
23	59146423	Differential Pinion	4	
24	59769661	Bearing	2	
25	59154120	Shim	1	(0.2 mm)
26	59154138	Shim	1	(0.3 mm)
27	59154146	Shim	1	(0.15 mm)
28	59154153	Shim	1	(0.1 mm)
29	59146381	Spacer	1	
30	59769653	Ring Nut	1	
31	58803958	Seal	1	
32	13082839	Coverplate	1	
33	59194126	Flange	1	
34	59146415	Nut	1	
35	59146340	Circlip	4	
**	59243121	Differential Kit (Items 13,14,15,16,17,18,31 & Carrier)	1	

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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 3 OF 5



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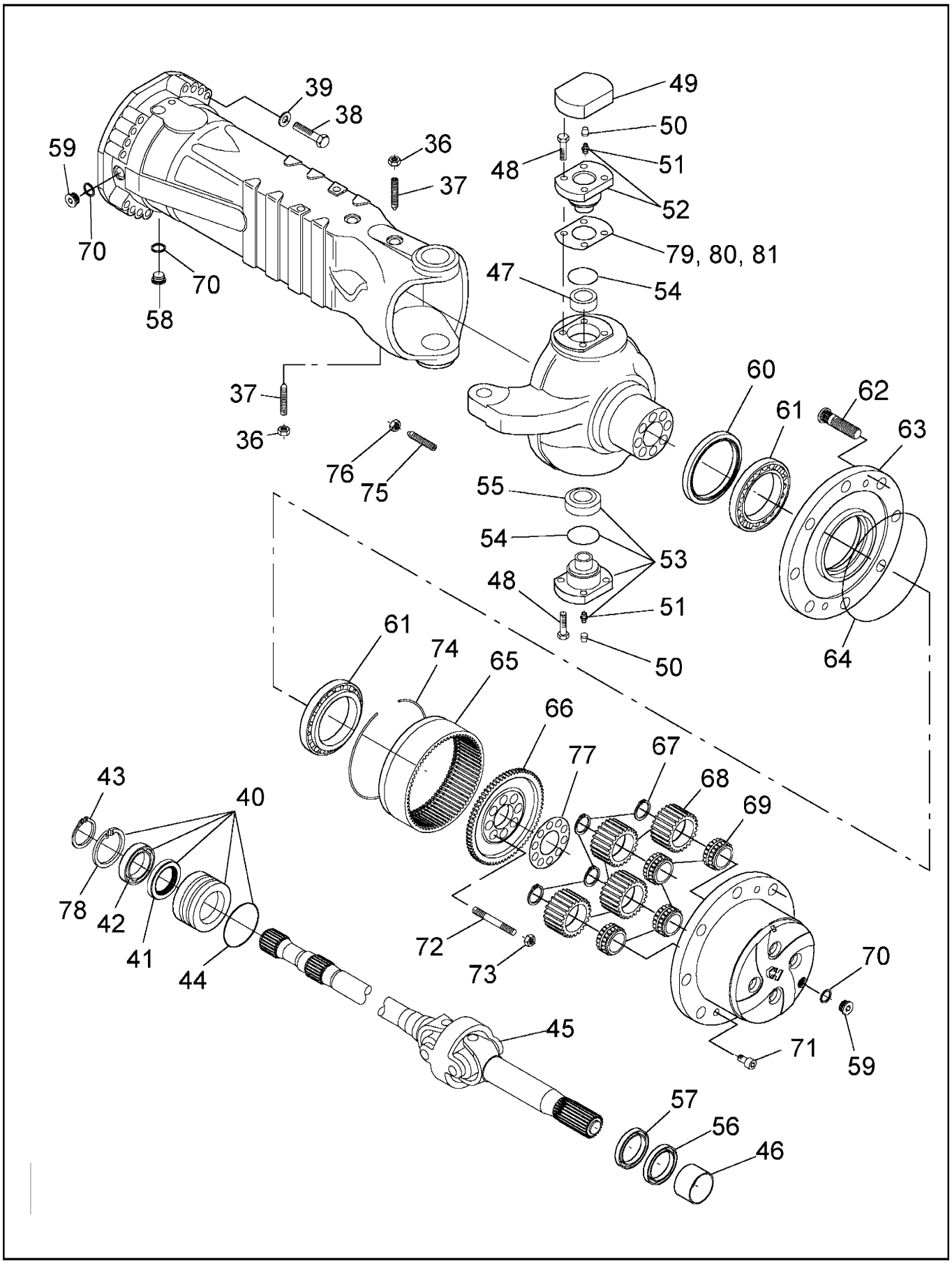
REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 3 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
*	**N.SV.A.**	**Outer Axle Assembly**	-	
36	59791004	Nut	4	
37	59194134	Grub Bolt	4	
38	59194142	Bolt	32	
39	59146456	Flat Washer	32	
40	59194159	Reduction Bushing	2	
41	58804444	Seal	2	
42	58804451	Ball Bearing	2	
43	59790865	Circlip	2	
44	59194167	O-ring	2	
45	59194175	Joint	2	
46	59146480	Thrust Bushing	2	
47	59146498	Outer Race	2	
48	59146308	Bolt	20	
49	59146514	Cover	2	
50	59079822	Grease Fitting Cap	4	
51	59769364	Grease Fitting	4	
52	59242552	Pivot Pin	2	
53	59242594	Pivot Pin	2	
54	59146548	Seal	4	
55	59146555	Articulation	2	
56	59146571	Seal	2	
57	59146589	Dust Excluder	2	
58	59146241	Magnetic Drain Plug	2	
59	59794115	Oil Fill Plug	4	
60	59146605	Seal	2	
61	59146613	Bearing	4	
62	59079517	Wheel Stud	20	
63	59246819	Wheel Hub	2	
64	58974155	O-ring	2	
65	59243162	Ring Gear	2	
66	59242834	Ring Gear Support	2	
67	59146654	Circlip	6	
68	59146662	Planet Gear	6	
69	59146670	Bearing	6	
70	59794123	Seal Washer	6	
71	59246835	Countersunk Bolt	4	

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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 3 OF 5 - Contnued



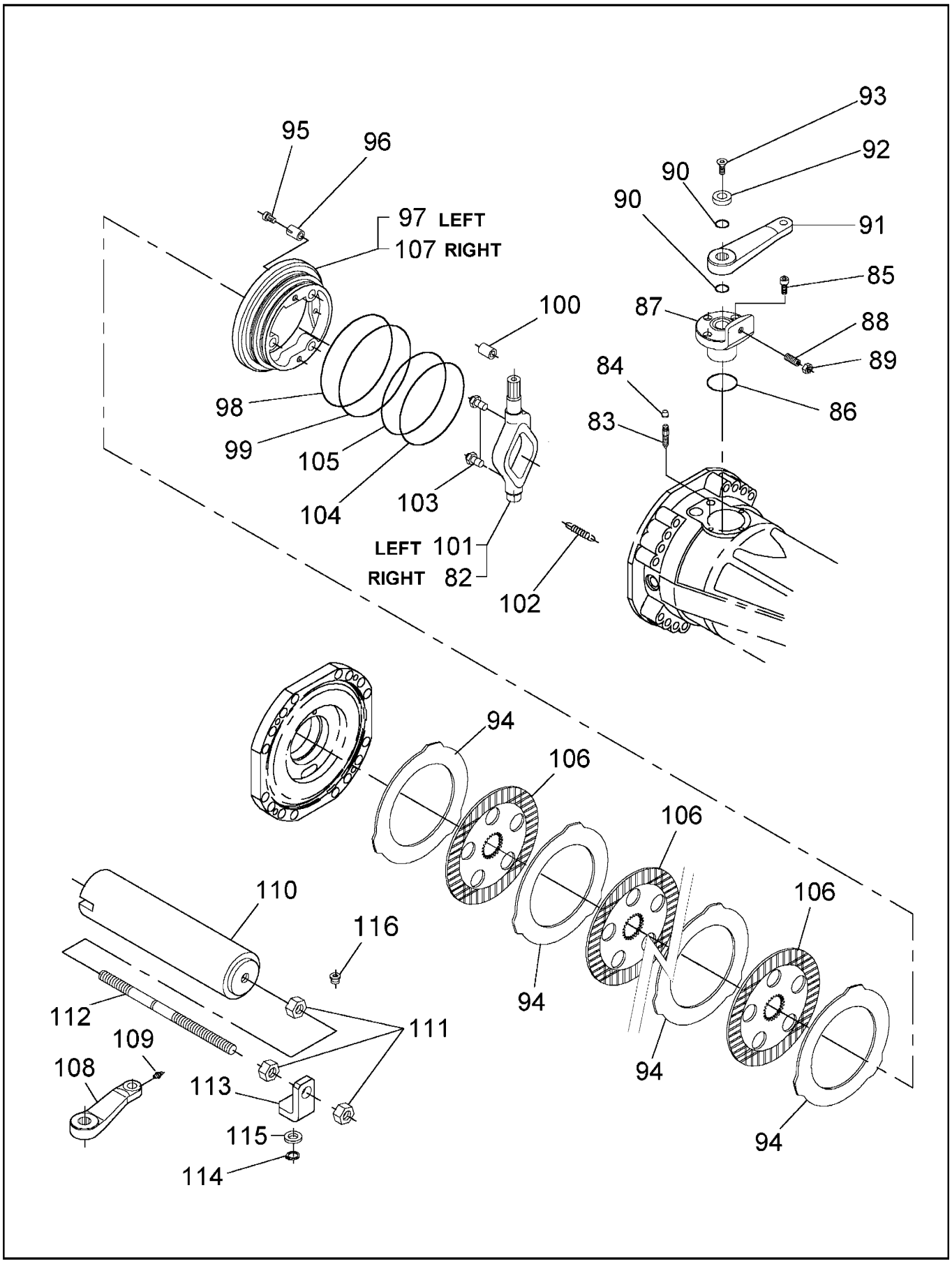
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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 3 OF 5 - Continued

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
72	59153601	Stud	16	
73	59153619	Nut	16	
74	59153627	Circlip	2	
75	59153635	Adjusting Bolt	2	
76	59153643	Nut	2	
77	59153650	Locking Plate	2	
78	59790824	Circlip	2	
79	59242537	Shim	1	0.15 mm
80	59243139	Shim	1	0.20 mm
81	59243147	Shim	1	0.50 mm
**	54710157	Planet Gear Carrier Kit (Items 67,68,69,70,71,74 & Gear Carrier)	1	

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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 4 OF 5



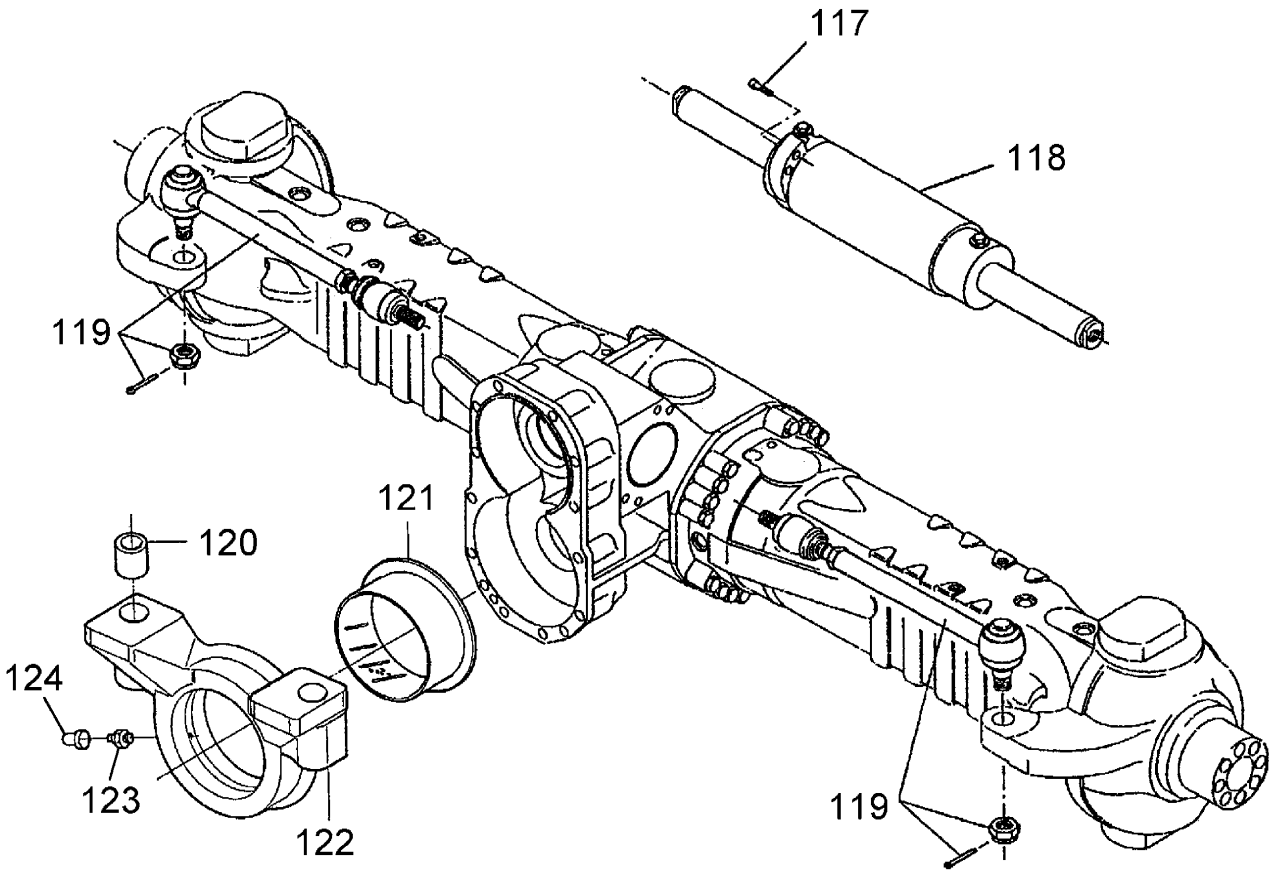
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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 4 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
*	**N.SV.A.**	**Brake Disc Assembly**	-	
82	54705520	Lever	1	
83	59793265	Bleeding Bolt	2	
84	59079822	Plug	2	
85	59794073	Cylinder Bolt	6	
86	58916974	O - Ring	2	
87	59243022	Reduction Bushing	2	
88	59243014	Grub Bolt	2	
89	59793430	Nut	2	
90	59243030	O - Ring	4	
91	54705462	Lever	1	
92	59793190	Washer	2	
93	59793182	Countersunk Bolt	2	
94	59153759	Intermediate Brake Disc	10	
95	59153676	Adjusting Bolt	6	
96	59153684	Spring	6	
97	59243055	Piston	1	
98	59153718	Back-up Ring	2	
99	59153726	O - Ring	2	
100	59769935	Dowel	2	
101	59243071	Lever	1	
102	59153700	Spring	6	
103	13082870	Pusher	4	
104	59153734	Back - Up Ring	2	
105	59194209	O - Ring	2	
106	54705447	Break Disc	8	
107	59243089	Piston	1	
108	54705488	Lever	1	
109	59803684	Grease Fitting	2	
110	54705496	Wheel Cylinder	1	
111	13083027	Nut	3	
112	54705504	Bar	1	
113	13083019	Support	1	
114	13082987	Circlip	1	
115	13082995	Spacer	1	
116	54705512	Bolt	1	
**	59243097	Kit, B Piston (Items 96.97.98.99.103.104)	1	
**	59243105	Kit, A Piston (Items 96,97,98,99,103,107)	1	

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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 5 OF 5



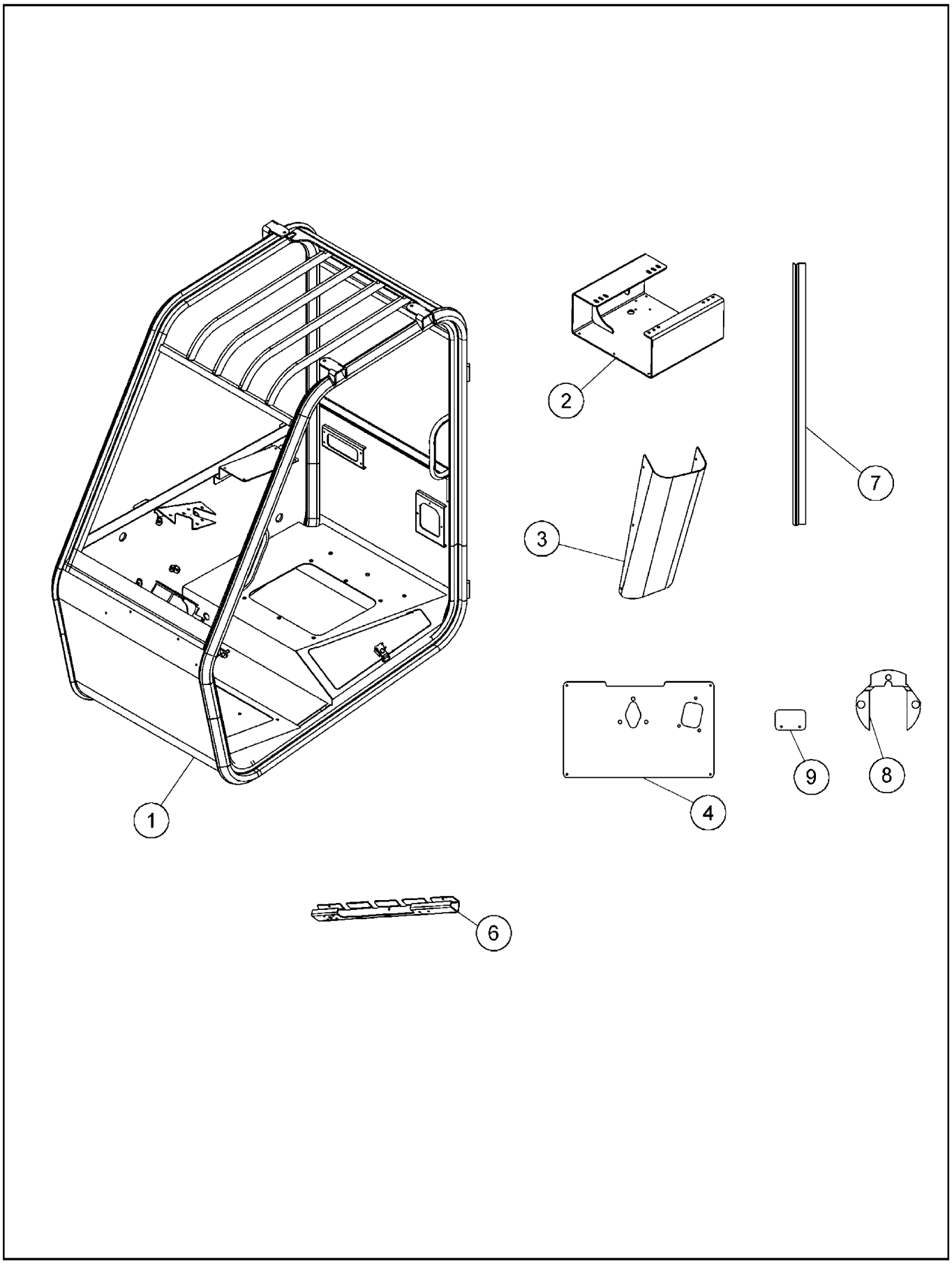
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REAR AXLE (59251645) - INTERNAL BREAKDOWN - SHEET 5 OF 5

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
117	59154039	Cylinder Bolt	4	
118	59194217	Cylinder	1	
-	59141986	-Seal Kit	1	
119	59194225	Articulated Tie Rod	2	
120	59154070	Reduction Bushing	4	
121	59154088	Thrust Bushing	2	
122	59194233	Support	2	
123	59769364	Grease Fitting	2	
124	59079822	Grease Fitting Cap	2	

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 1 OF 11



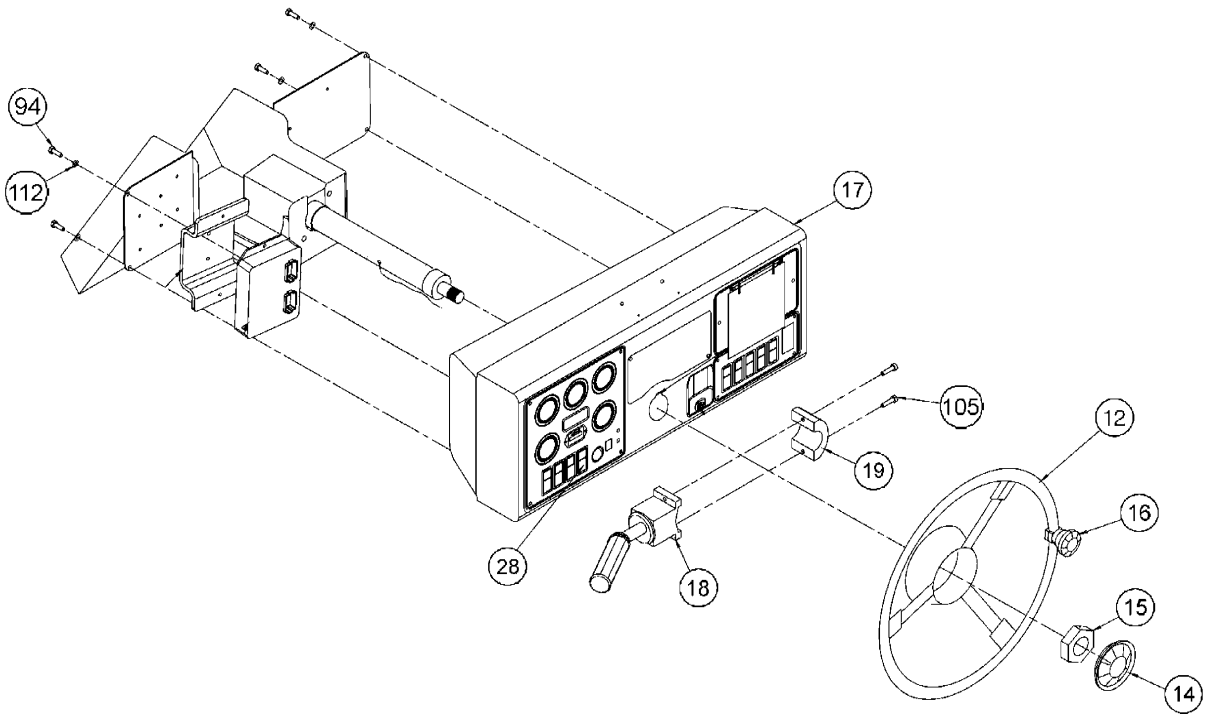
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 1 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59290676, 13169172, 13224928 & 59113738		
1	13173315	ROPS	1	
2	59194720	Seat Support	1	
3	13174073	Hose Cover	1	
4	13191234	Pedal Mount Plate	1	
6	13174040	Support Bracket	1	
7	13174057	Wire Cover	1	
8	59194498	Joystick Spacer	2	
9	13191267	Heater Cover Plate	1	

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 2 OF 11



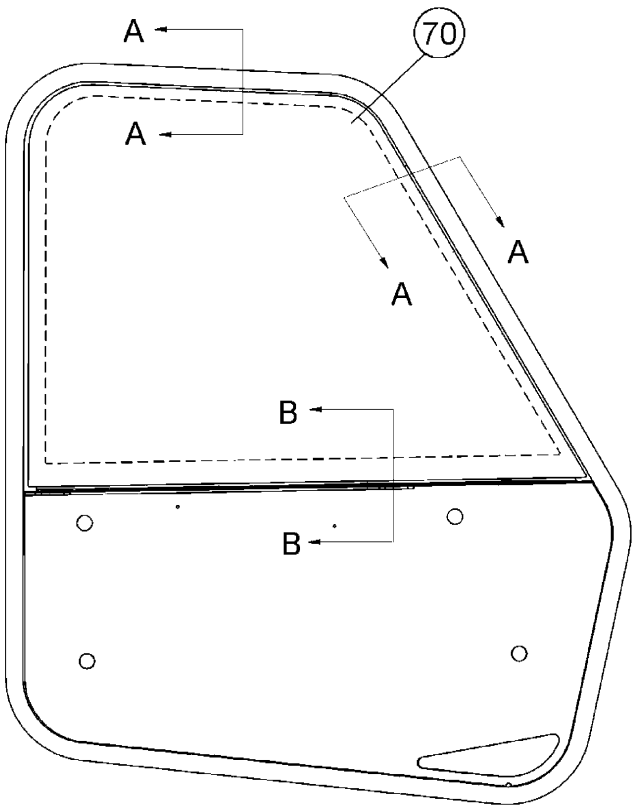
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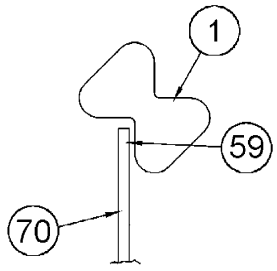
OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 2 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
12	58858564	Steering Wheel	1	
14	59159558	Horn Button	1	
15	59461368	Nut	1	
16	59199141	Spinner Knob	1	
17	**NSVA**	**Control Console Assembly**	**1**	**See Sheet 10**
18	59113696	Transmission Shifter	1	
19	59291245	Shifter Clamp	1	
28	59195925	Switch	1	
94	96702394	HHCS	4	
105	96740980	HHCS	2	M5-0.8 x 30
112	96741053	Flatwasher	13	M6

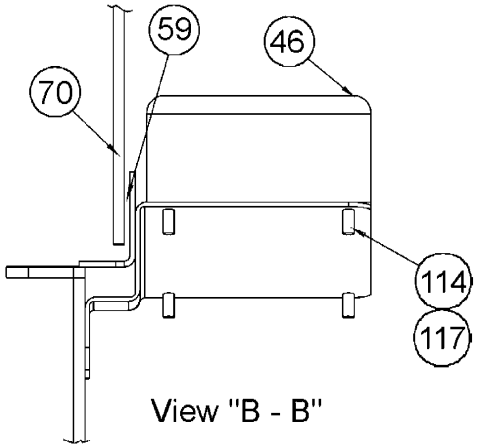
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 3 OF 11





View "A - A"



View "B - B"

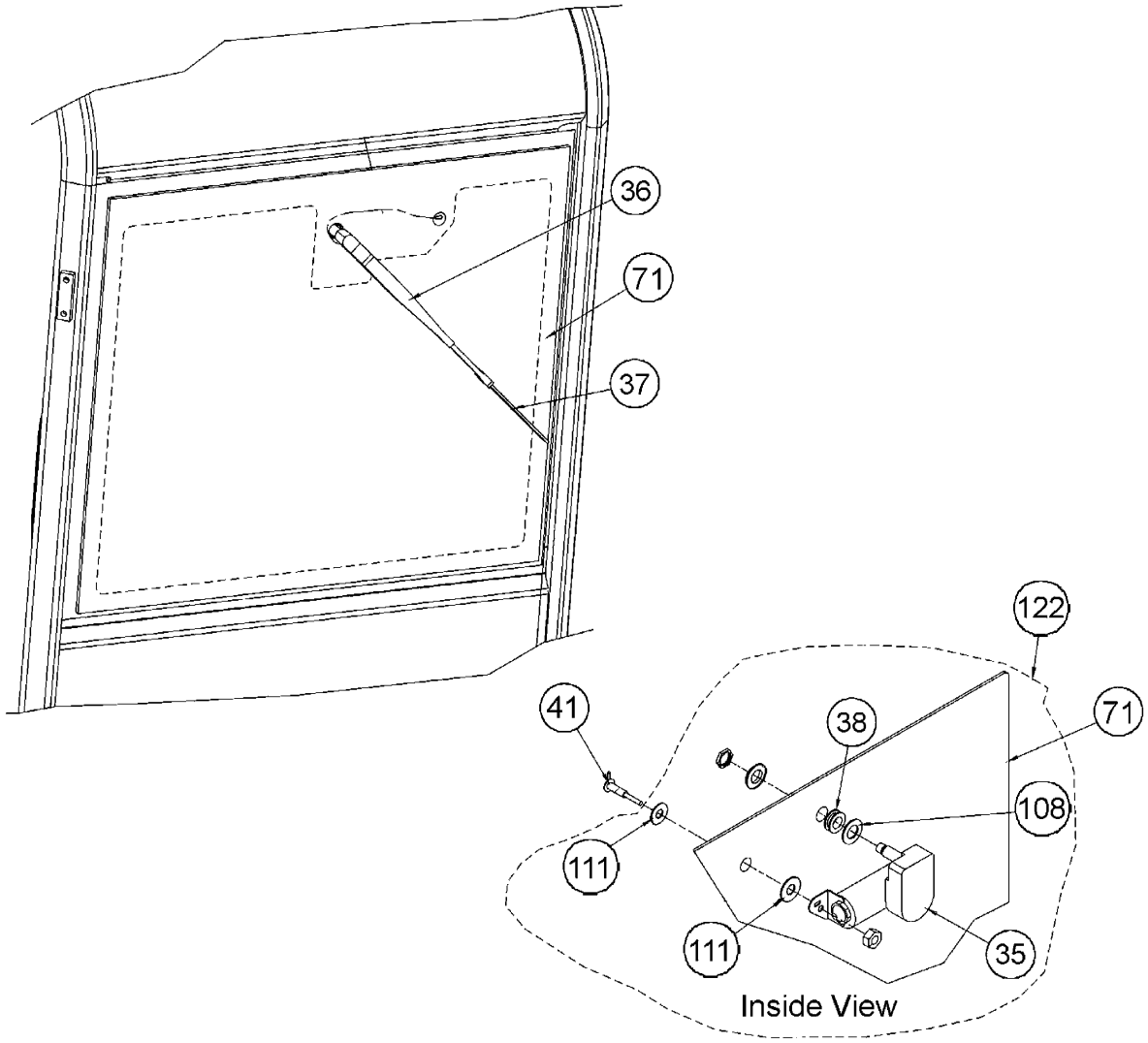
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 3 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	13173315	ROPS	1	
46	54473004	Arm Rest	1	
59	22067607	Adhesive	A/R	
70	13184460	Side Window	1	
114	95064655	Flatwasher	4	
117	95923298	Locknut	4	1/4-20

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 4 OF 11

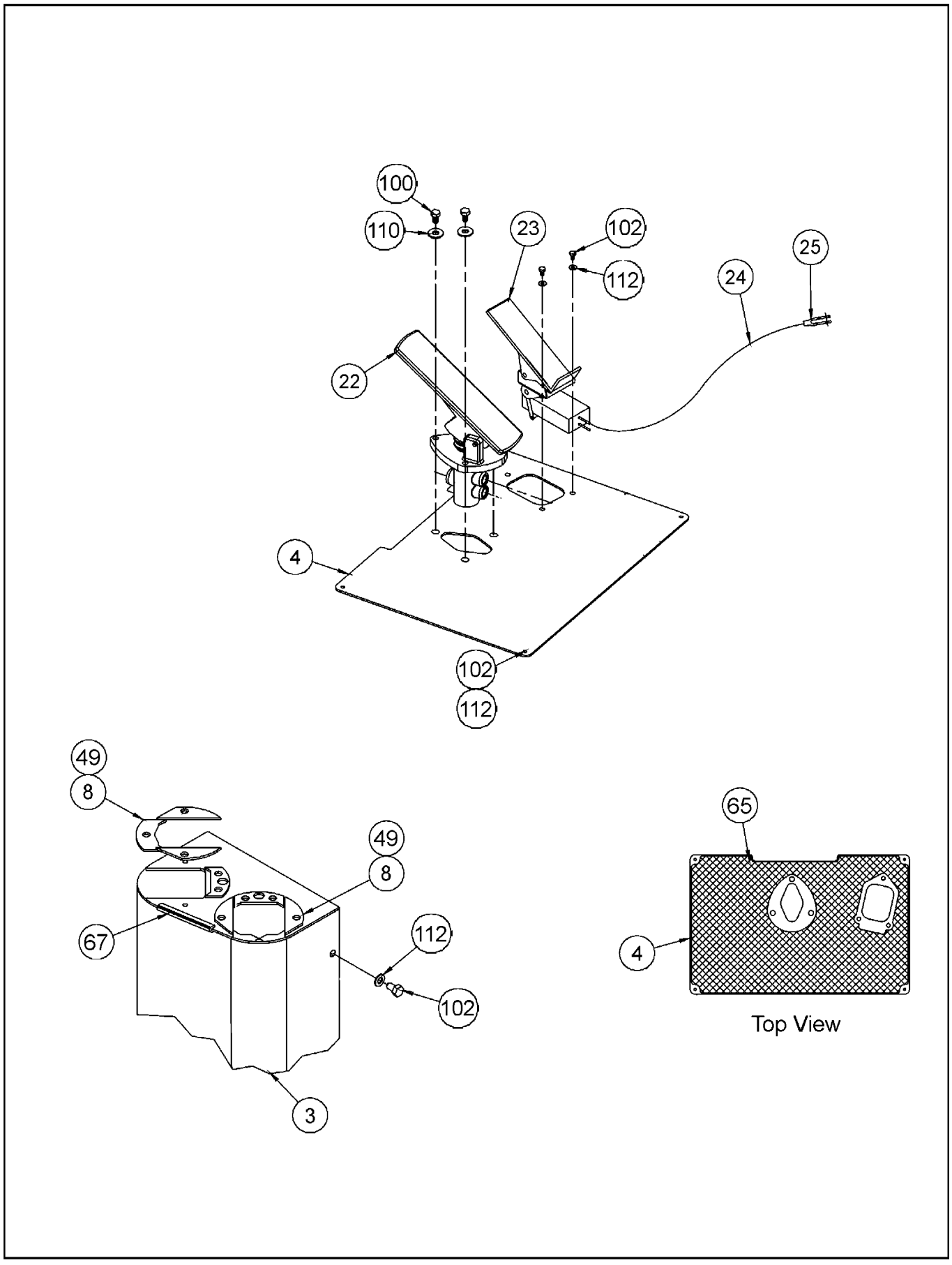


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
36	59072694	Wiper Arm	1	
37	59194514	Wiper Blade	1	
41	13220835	Washer Hose Fitting	1	
71	13184478	Rear Window	1	
122	59194548	Wiper Motor Kit	1	
		(Includes Items 35, 38, 108 & 111)		
35	NSS	-Wiper Motor	1	
38	NSS	-Grommet	2	
108	NSS	-Flatwasher	1	5/8 x 1 1/8
111	NSS	-Flatwasher	1	7/16 x 1.0

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 5 OF 11



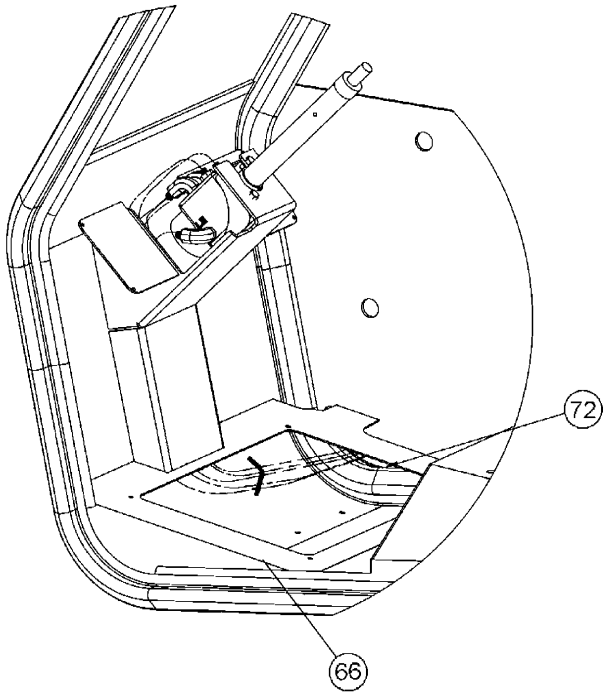
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 5 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
3	13174073	Hose Cover	1	
4	13191234	Pedal Mount Plate	1	
8	59194498	Joystick Spacer	2	
22	59113480	Brake Valve	1	
23	59142893	Accelerator Pedal	1	
24	59141291	Accelerator Cable	1	
25	59929059	Accelerater Cable Clevis	1	0.25
49	95713798	Wire Tie	A/R	
65	54579933	Tread Grip	1	
67	59194506	Trim	1	12GA
100	96702659	HHCS	9	M8-1.25 x 25
102	96701958	HHCS	28	M6 x 16
110	96741038	Flatwasher	9	M8
112	96741053	Flatwasher	13	M6

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 6 OF 11

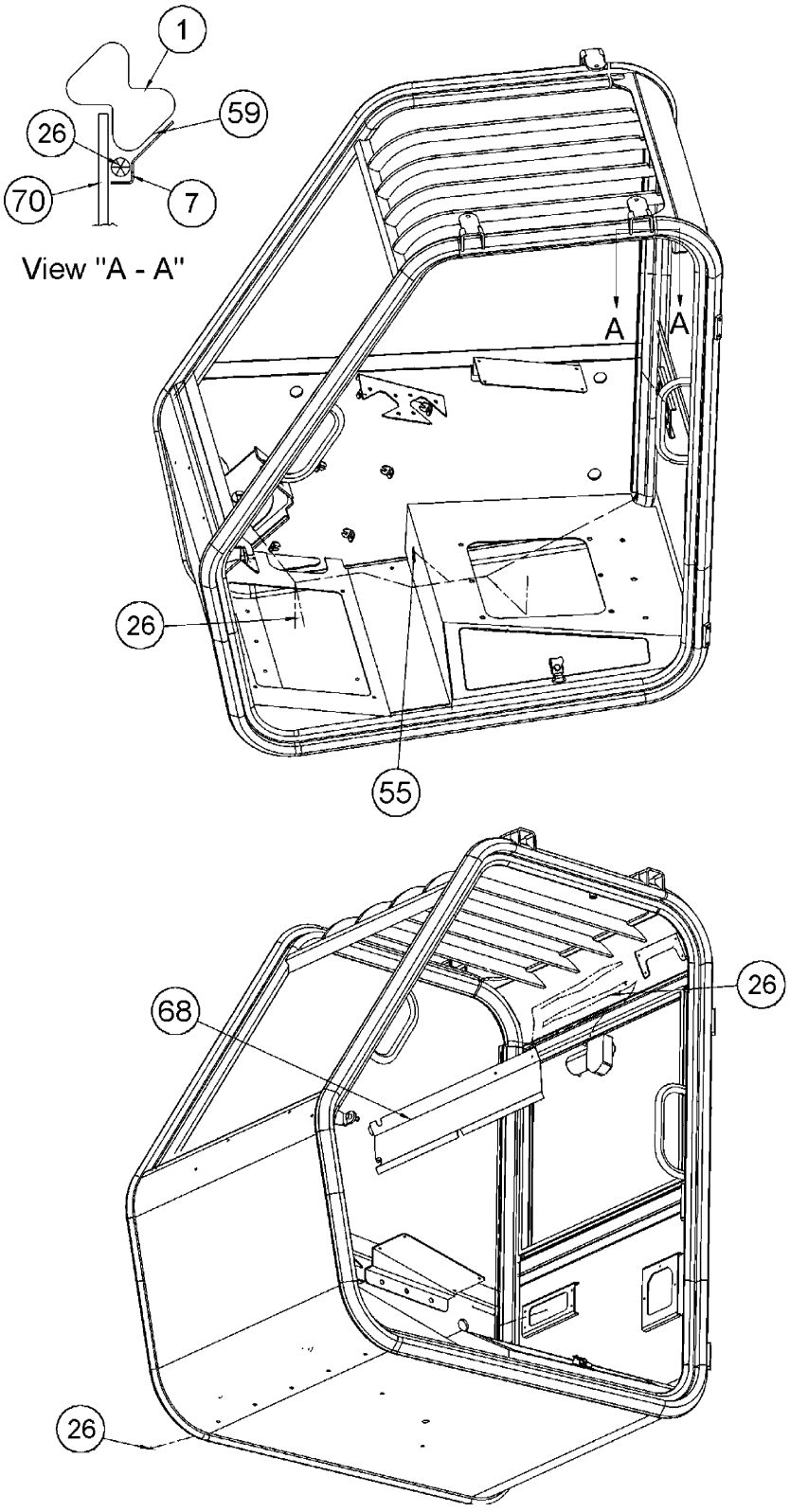


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
66	54579941	Tread Grip	1	
72	54718226	Trim	1	

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 7 OF 11



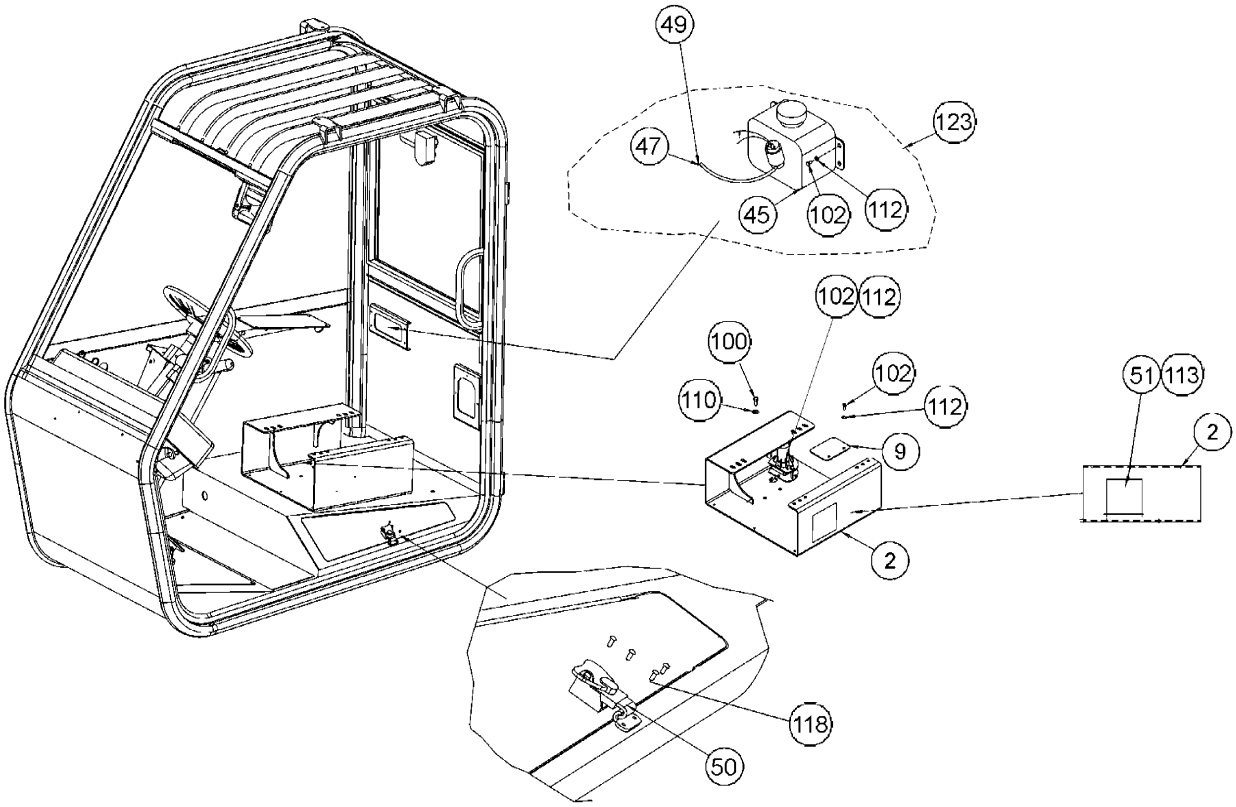
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 7 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	13173315	ROPS	1	
7	13174057	Wire Cover	1	
26	13173281	Wire Harness	1	
55	13173323	Power Port	1	
59	22067607	Adhesive	A/R	
68	22067615	Headliner	1	
70	13184460	Side Window	1	

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 8 OF 11



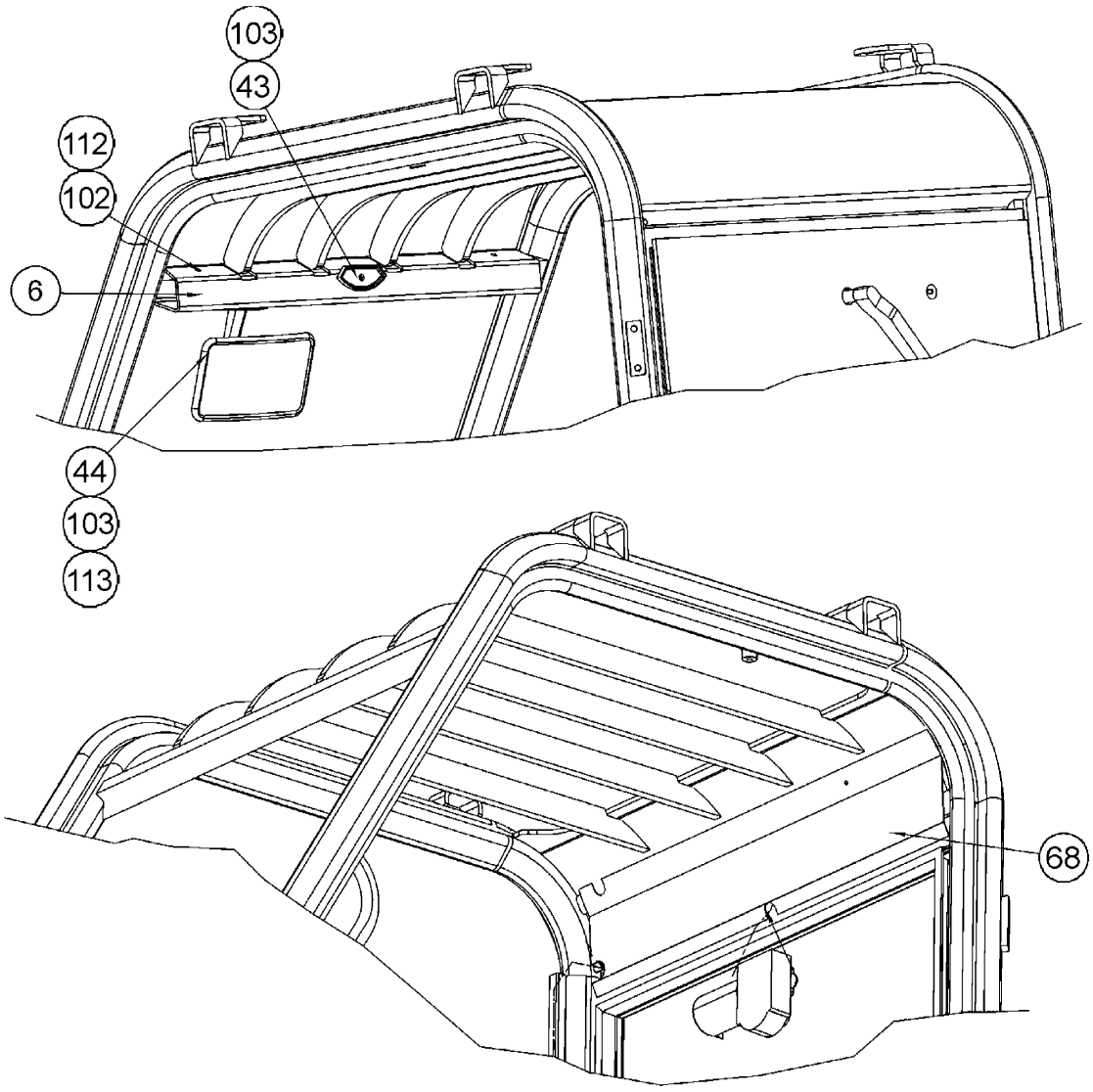
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 8 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	59194720	Seat Support	1	
9	13191267	Heater Cover Plate	1	
50	54718291	Tool Box Latch	1	
51	59196410	Cupholder	1	
100	96702659	HHCS	9	M8-1.25 x 25
102	96701958	HHCS	28	M6 x 16
110	96741038	Flatwasher	9	M8
112	96741053	Flatwasher	13	M6
113	96702493	Flatwasher	4	M5
118	58877093	Nut	4	#6
123	59195990	Water Bottle Kit	1	
		Includes Items 45, 47, 49, 102 & 112)		
45	59195917	-Water Bottle	1	
47	NSS	-Washer Hose	5	5/32
49	95713798	-Wire Tie	A/R	
102	96701958	-HHCS	4	M6 x 16
112	96741053	-Flatwasher	4	M6

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 9 OF 11

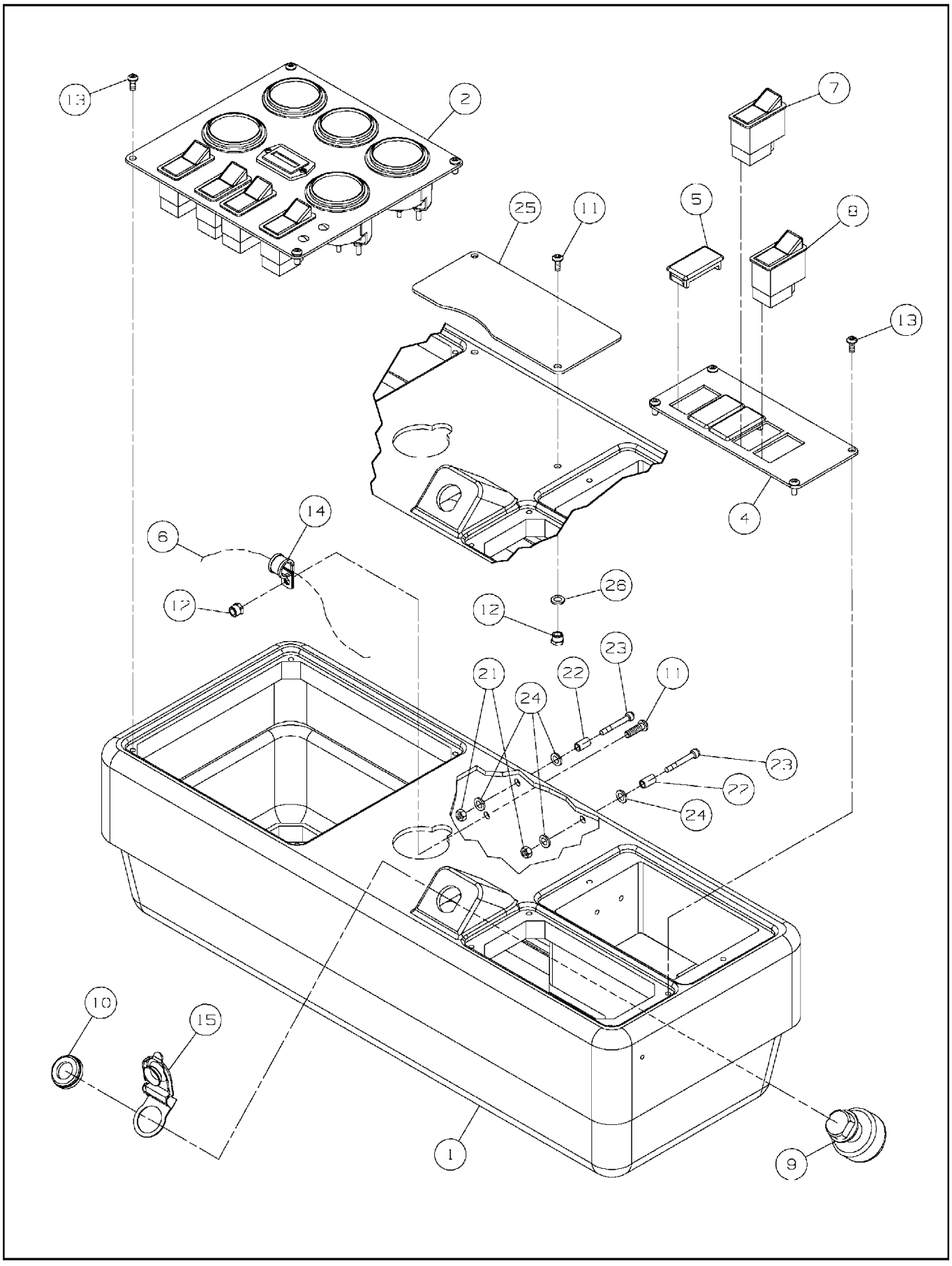


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
6	13174040	Support Bracket	1	
43	59181545	Level Gauge Kit	1	
-	59181537	-Level Gauge	1	
44	59154625	Mirror	1	
68	22067615	Headliner	1	
102	96701958	HHCS	28	M6 x 16
103	96705736	HHCS	3	M5-0.8 x 20
112	96741053	Flatwasher	13	M6
113	96738554	Flatwasher	4	M5

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 10 OF 11



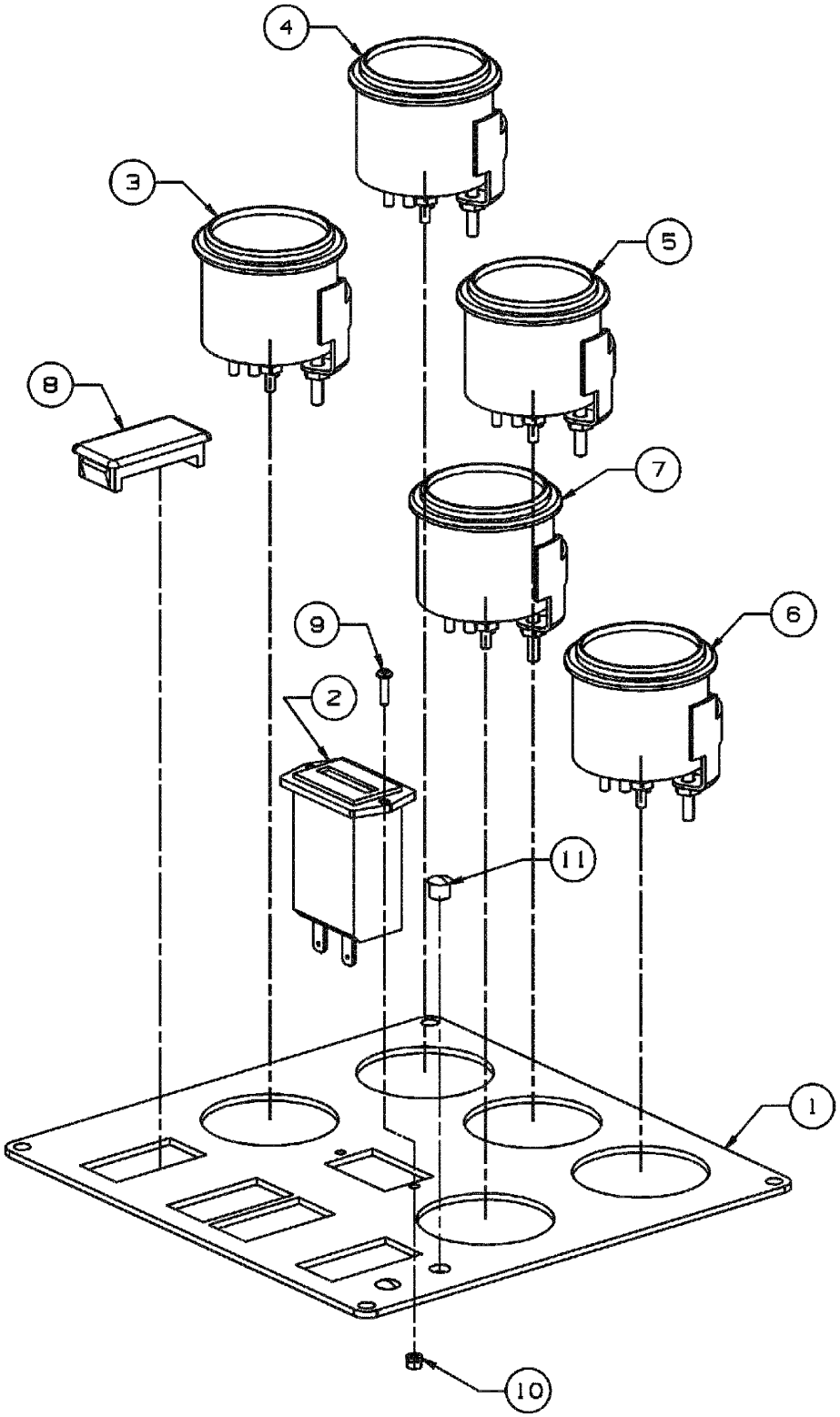
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 10 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
**	NSVA	Control Console Assembly	1	
1	13219670	Console	1	
2	**NSVA**	**Gauge Panel Assembly**	**1**	**See Sheet 11**
4	59137315	Control Plate	1	
5	58835398	Blank Plug	3	
6	13224902	Console Harness	1	
7	59114108	Parking Brake Switch	1	
8	59114116	Steering Mode Switch	1	
9	59126946	Ignition Switch	1	
-	58917261	-Ignition Key		
10	58924333	Switch Nut	1	
11	59148684	BHCS	3	
12	96702873	Nylon Nut	4	
13	59148569	HHCS	8	M5-0.8 x 12
14	59397489	Clamp	2	
15	58892902	Ignition Switch Cover	1	
21	96703756	Hex Nut	2	M4
22	59158931	Spacer	2	
23	96728696	SHCS	2	
24	96705165	Flatwasher	4	
25	13168109	Decal Plate	1	
26	96721121	Washer	2	M6

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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 11 OF 11



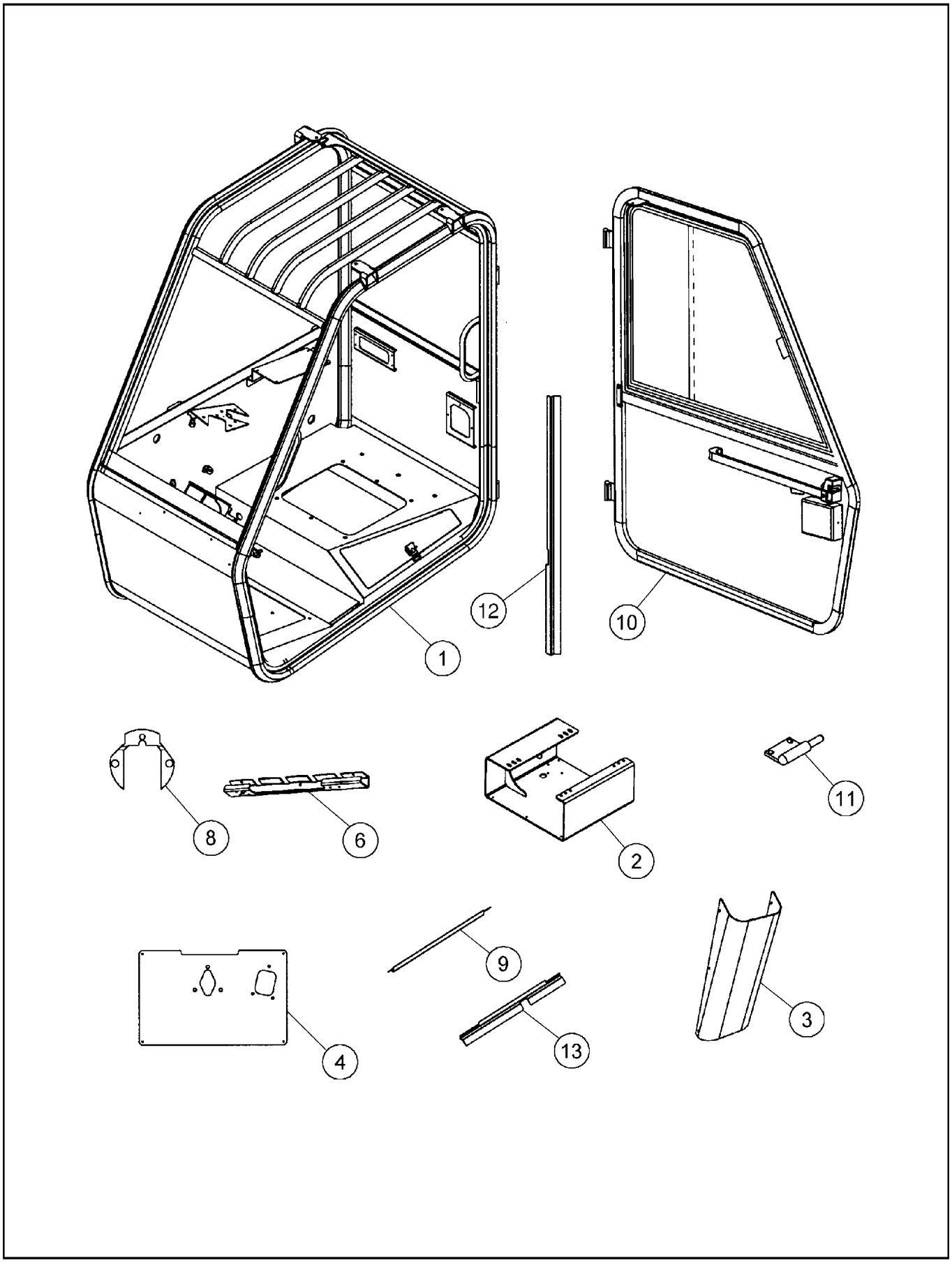
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OPEN CAB ASSEMBLY (59290676) - INTERNAL BREAKDOWN - SHEET 11 OF 11

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
**	NSVA	Gauge Panel Assembly	1	
1	59264911	Control Panel Plate	1	
2	59165001	Hourmeter	1	
3	59113761	Transmission Temperature Gauge	1	
4	59046920	Fuel Level Gauge	1	
5	59044297	Voltmeter	1	
6	59046904	Oil Pressure Gauge	1	
7	59132324	Water Temperature Gauge	1	
8	58835398	Blank	4	
9	59148692	BHCS	2	M3-0.5 x 12mm
10	59137448	Locknut	2	M3-0.5
11	59058156	Dome Plug	2	

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 1 OF 15



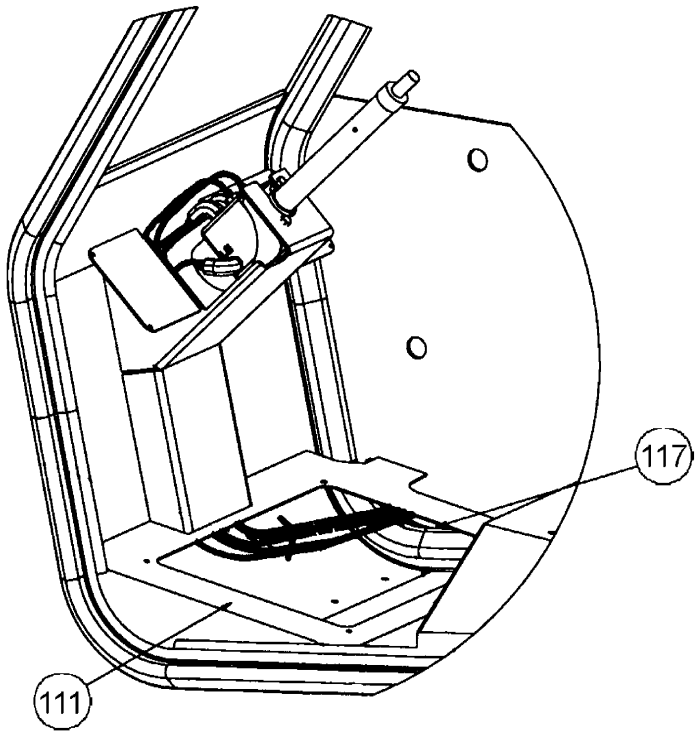
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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 1 OF 15

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59290692 &13191291		
1	13173315	ROPS	1	
2	59194720	Seat Support	1	
3	13174073	Hose Cover	1	
4	13191234	Pedal Mounting Plate	1	
6	13174040	Accessory Mount	1	
8	59194498	Joystick Spacer	2	
9	13191267	Cover Plate	1	
10	**13191291**	**Door Assembly**	**1**	**See Sheet 13**
11	59155747	Door Hinge Pin	1	
12	13174057	Vertical Wire Cover	1	
13	13174065	Horizontal Wire Cover	2	

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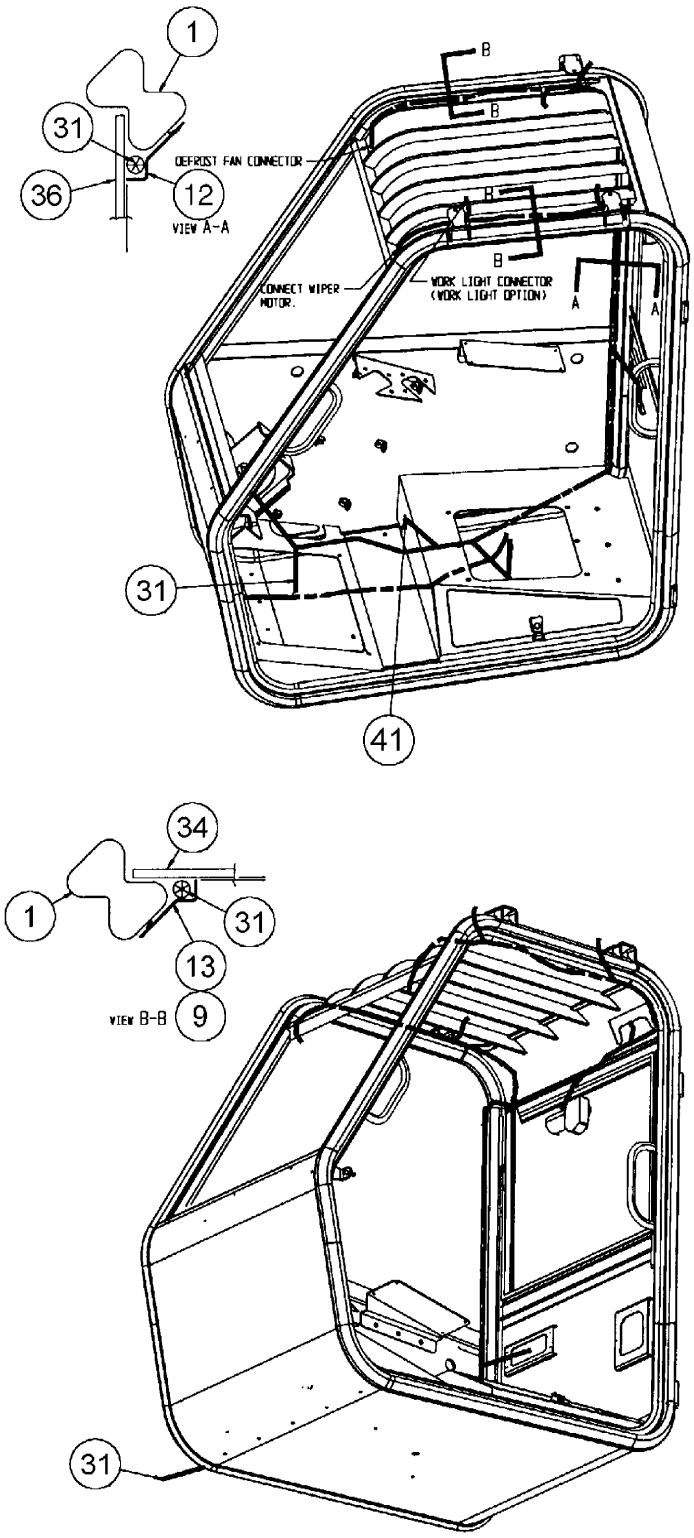
ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 2 OF 15



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
111	54579941	Floor Safety Tread	1	
117	54718226	Trim	1	

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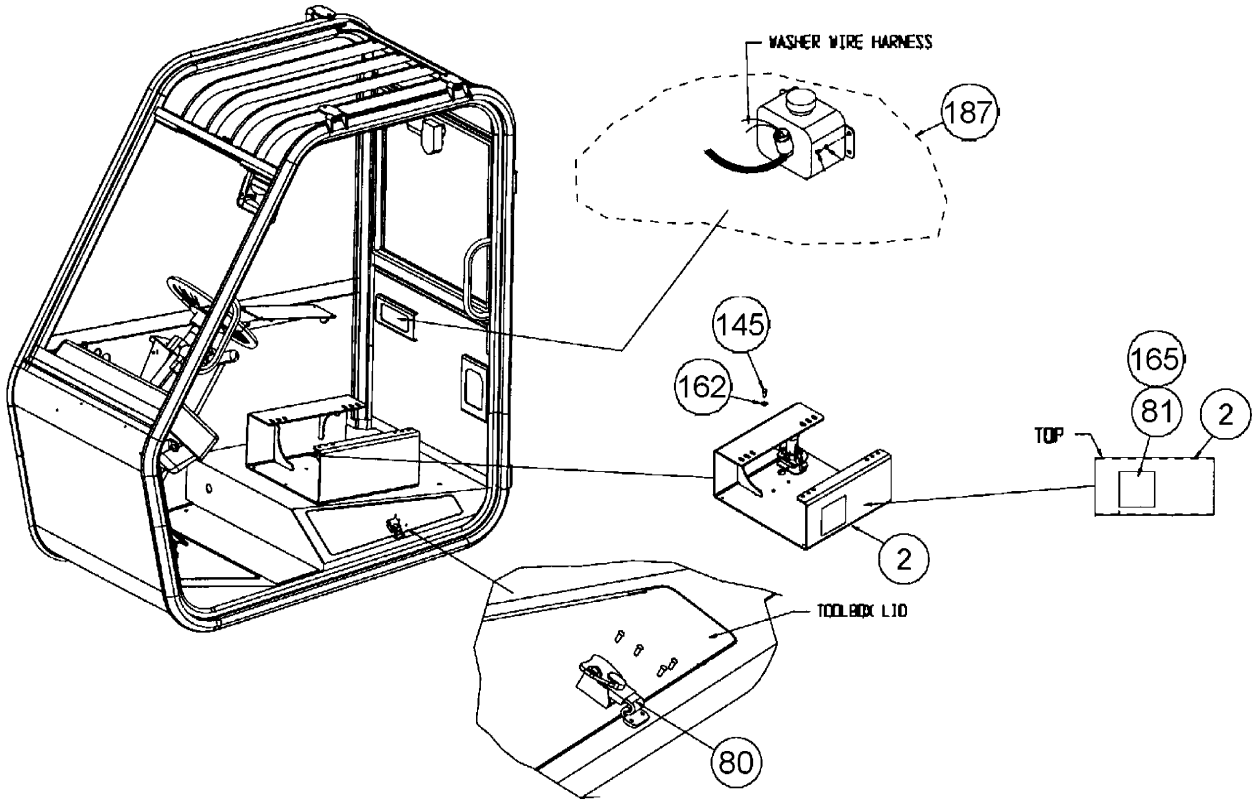


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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 3 OF 15

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	13173315	ROPS	1	
9	13191267	Cover Plate	1	
12	13174057	Vertical Wire Cover	1	
13	13174065	Horizontal Wire Cover	2	
31	13173299	Cab Wiring Harness	1	
34	13174081	Front Window	1	
36	59154641	Sliding Window	1	
41	13173323	Power Port	1	

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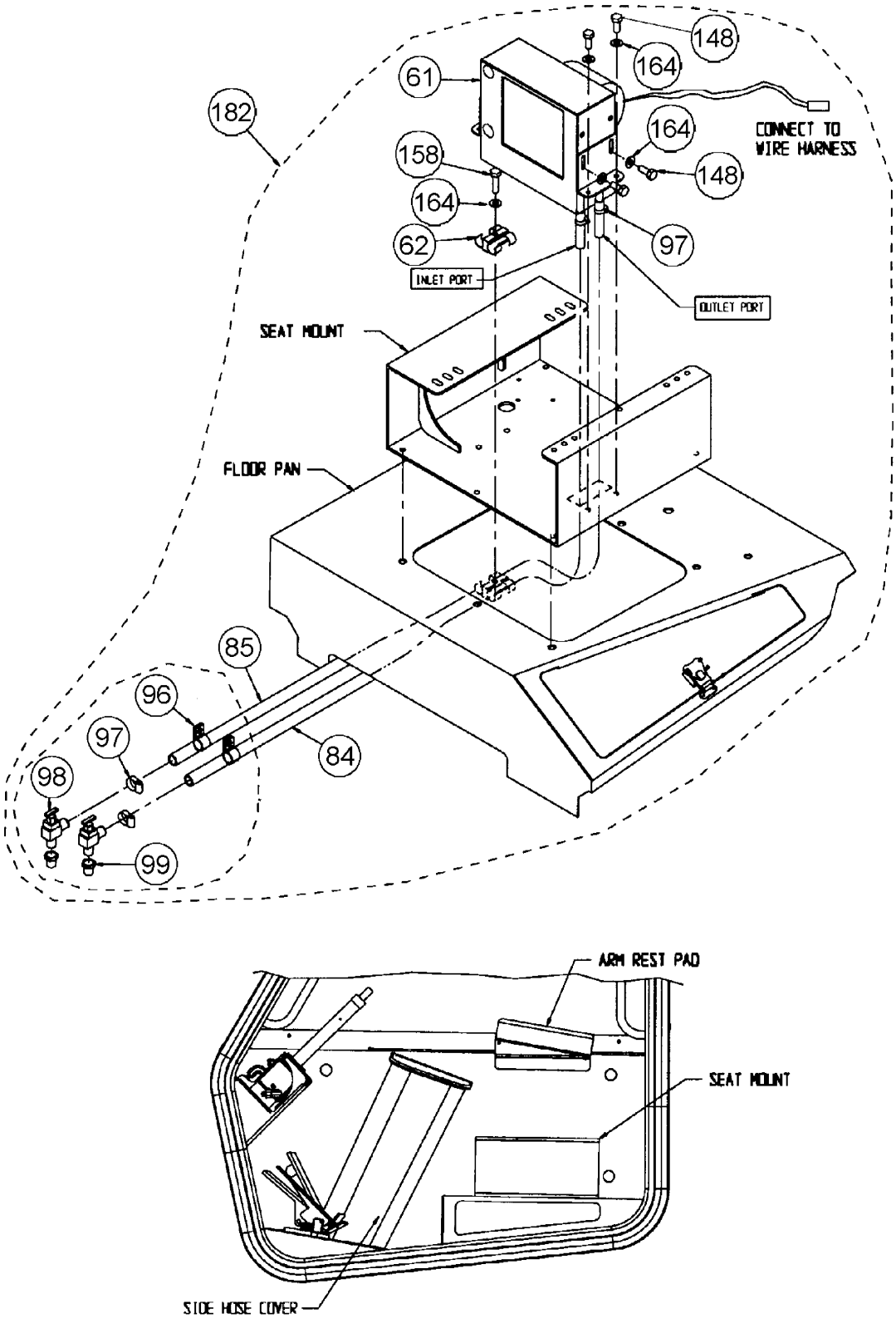


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
2	59194720	Seat Support	1	
80	54718291	Tool Box Latch	1	
81	59196410	Cup Holder	1	
145	96702659	HHCS	6	M8-1.25 x 25
162	96741038	Flatwasher	10	M8
165	96738554	Flatwasher	8	M5
187	59195990	Water Bottle Kit	1	
-	59195917	-Water Bottle	1	
-	NSS	-HHCS	2	
-	NSS	-Flatwasher	2	M6
-	NSS	-Wiper/Washer Harness	1	
-	NSS	-Rest Arm	1	
-	NSS	-Screw	4	
-	NSS	-Flatwasher	4	M6

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 5 OF 15

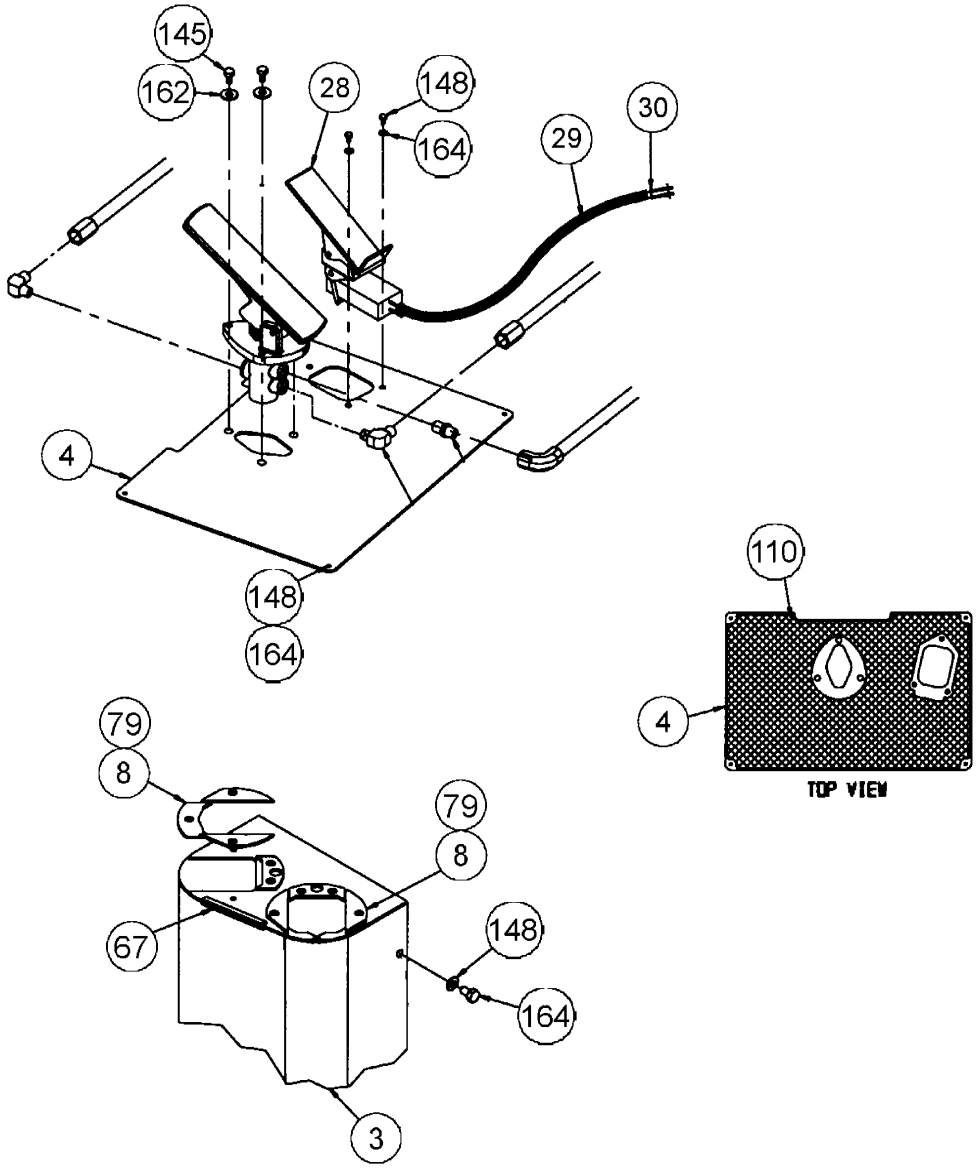


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
182	59196006	Heater Kit (Includes Items 61, 62, 84, 85, 96, 97, 98, 99 148, 158 & 164)	1	
61	NSS	-Heater	1	12V
62	NSS	-Loom Clamp	1	
84	NSS	-Hose Assembly	1	109.0"
85	NSS	-Hose Assembly	1	109.0"
96	NSS	-Clamp	2	
97	NSS	-Hose Clamp	4	
98	59392795	-Shutoff Valve	2	
99	NSS	-External Reducer	2	
148	NSS	-Screw	22	M16 x 16
158	NSS	-HHCS	1	M6-1.0 x 40
164	NSS	-Flatwasher	31	M6

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 6 OF 15

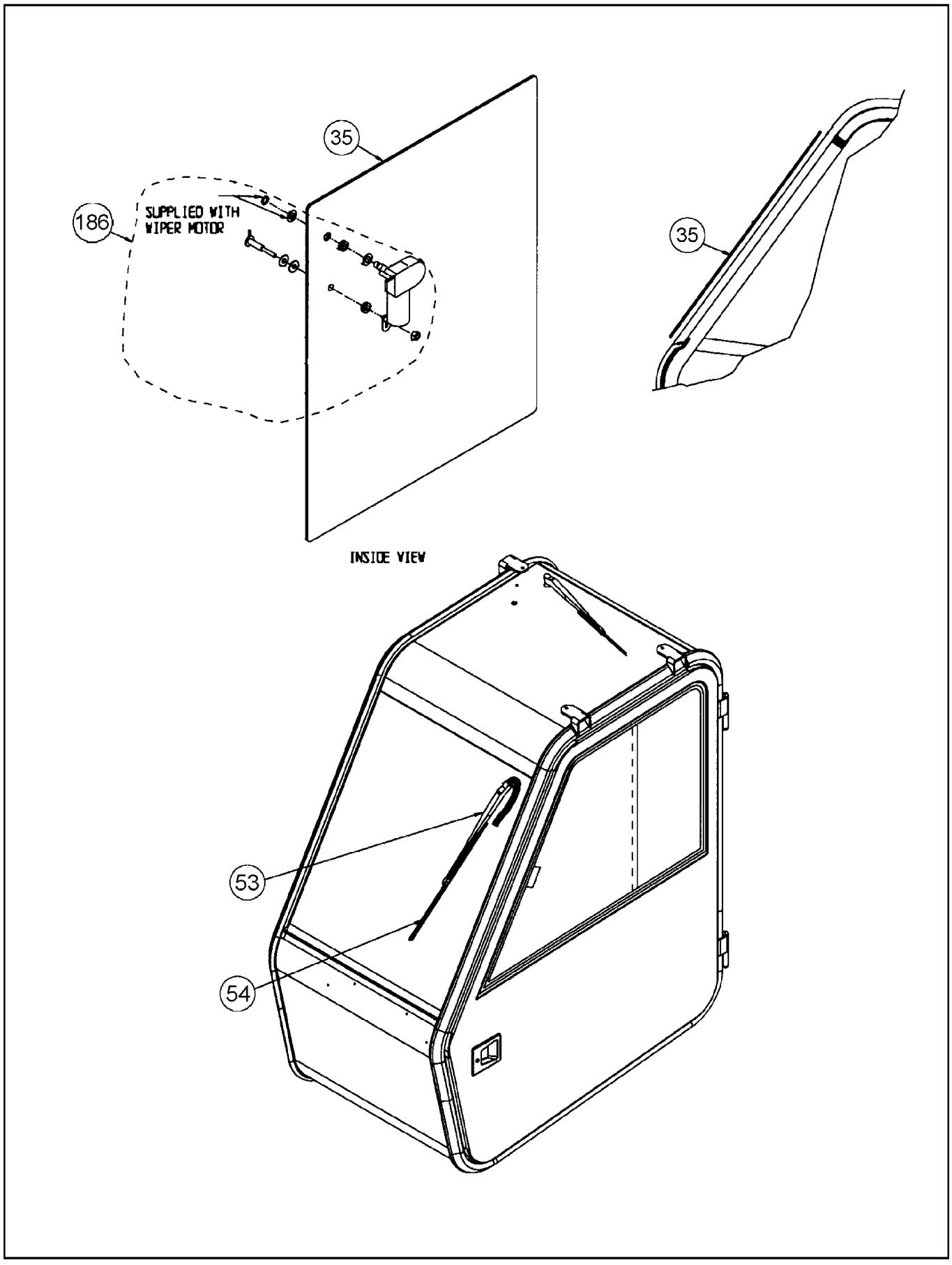


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
3	13174073	Hose Cover	1	
4	13191234	Pedal Mounting Plate	1	
8	59194498	Joystick Spacer	2	
28	59142893	Throttle Assembly	1	
29	59141291	Throttle Clevis	1	
30	59929059	Accelerator Cable Clevis	1	
67	54611975	Bushing	1	
79	95713798	Strap	7	
110	54579933	Pedal Plate Safety Tread	1	
145	96702659	HHCS	6	M8-1.25 x 25
148	96701958	Screw	22	M16 x 16
162	96741038	Flatwasher	10	M8
164	96741053	Flatwasher	31	M6

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 7 OF 15

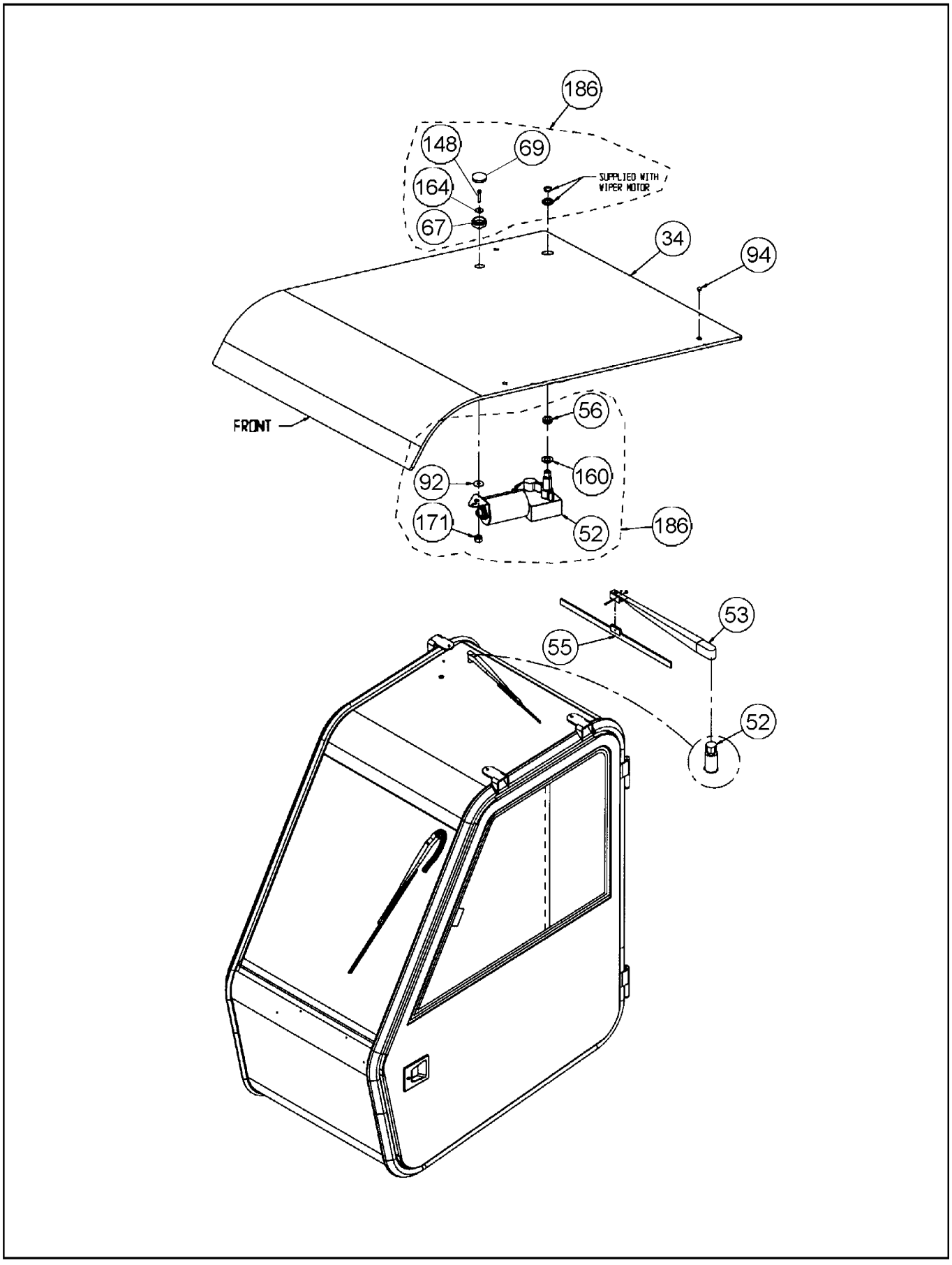


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
35	13174081	Front Window	1	
53	59072694	Rear Wiper Arm	3	
54	59194522	Wiper Blade	1	18.0"
186	59194548	Wiper Motor Kit (Includes the following Items):	3	
-	NSS	-Wiper Motor	1	
-	NSS	-Grommet	5	
-	NSS	-Bushing	1	
-	NSS	-Cap	1	
-	NSS	-Sealing Washer	1	
-	NSS	-Screw	22	M16 x 16
-	NSS	-Flatwasher	3	
-	NSS	-Flatwasher	31	M6
-	NSS	-Locknut	4	M6-1.0

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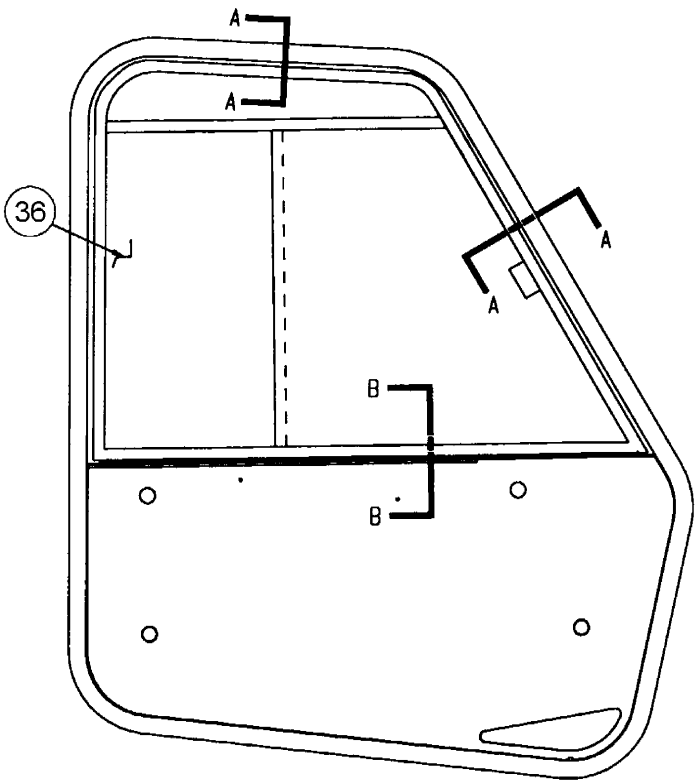
ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 8 OF 15



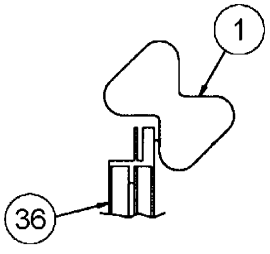
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
34	13174099	Curved Top Window	1	
53	59072694	Wiper Arm	3	
55	59194514	Wiper Blade	2	14.0"
94	54720800	Rubber Plug	3	
186	59194548	Wiper Motor Kit	3	
		(Includes Items 52, 56, 67, 69, 92, 148, 160, 164 & 171)		
52	NSS	-Wiper Motor	1	
56	NSS	-Grommet	5	
67	NSS	-Bushing	1	
69	NSS	-Cap	1	
92	NSS	-Sealing Washer	1	
148	NSS	-Screw	22	M16 x 16
160	NSS	-Flatwasher	3	
164	NSS	-Flatwasher	31	M6
171	NSS	-Locknut	4	M6-1.0

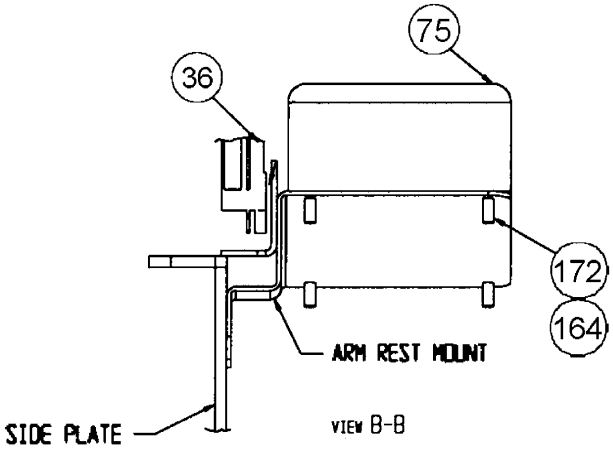
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RIGHT SIDE VIEW



VIEW A-A



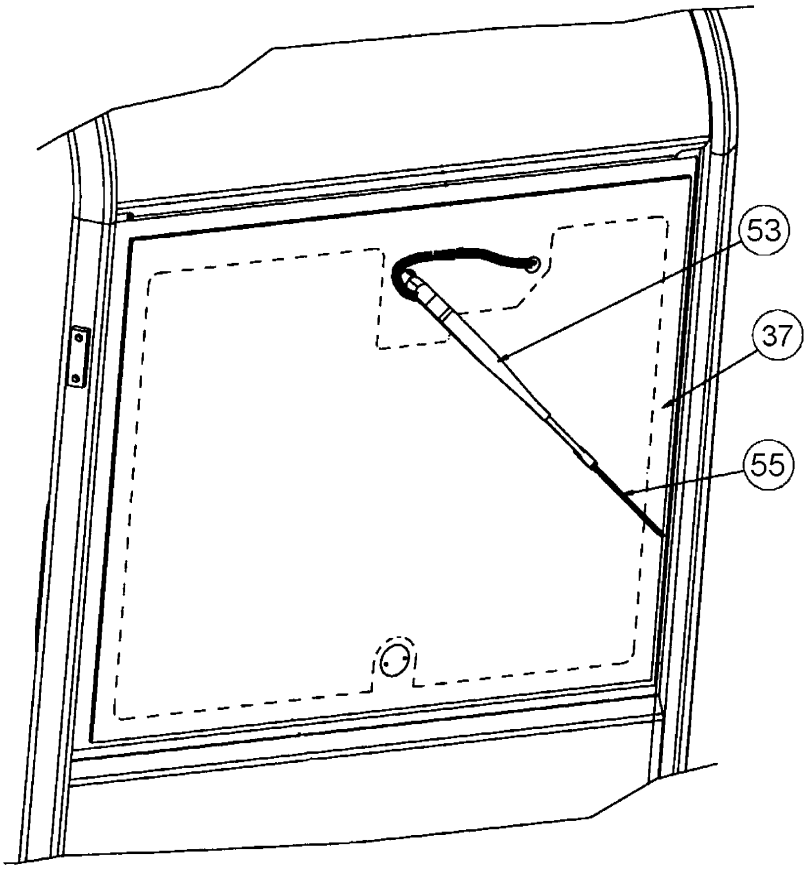
VIEW B-B

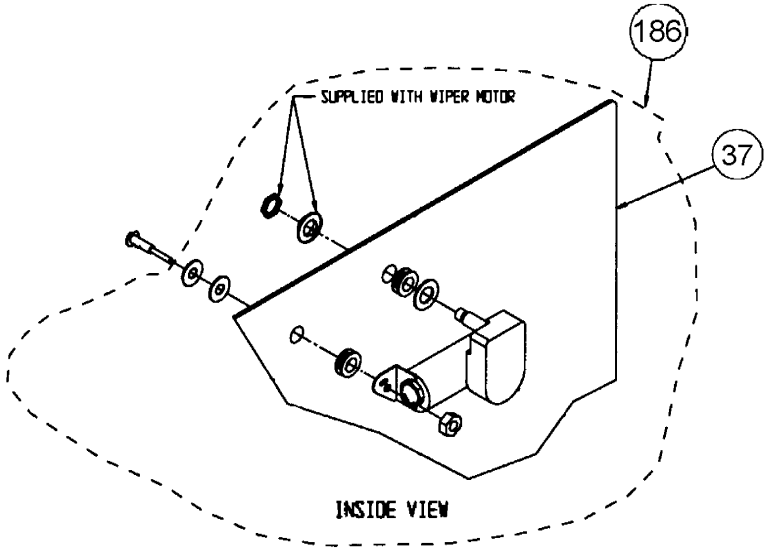
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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 9 OF 15

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	13173315	ROPS	1	
36	59154641	Sliding Window	1	
75	54473004	Armrest	1	
164	96741053	Flatwasher	31	M6
172	95923298	Locknut	4	1/4-20

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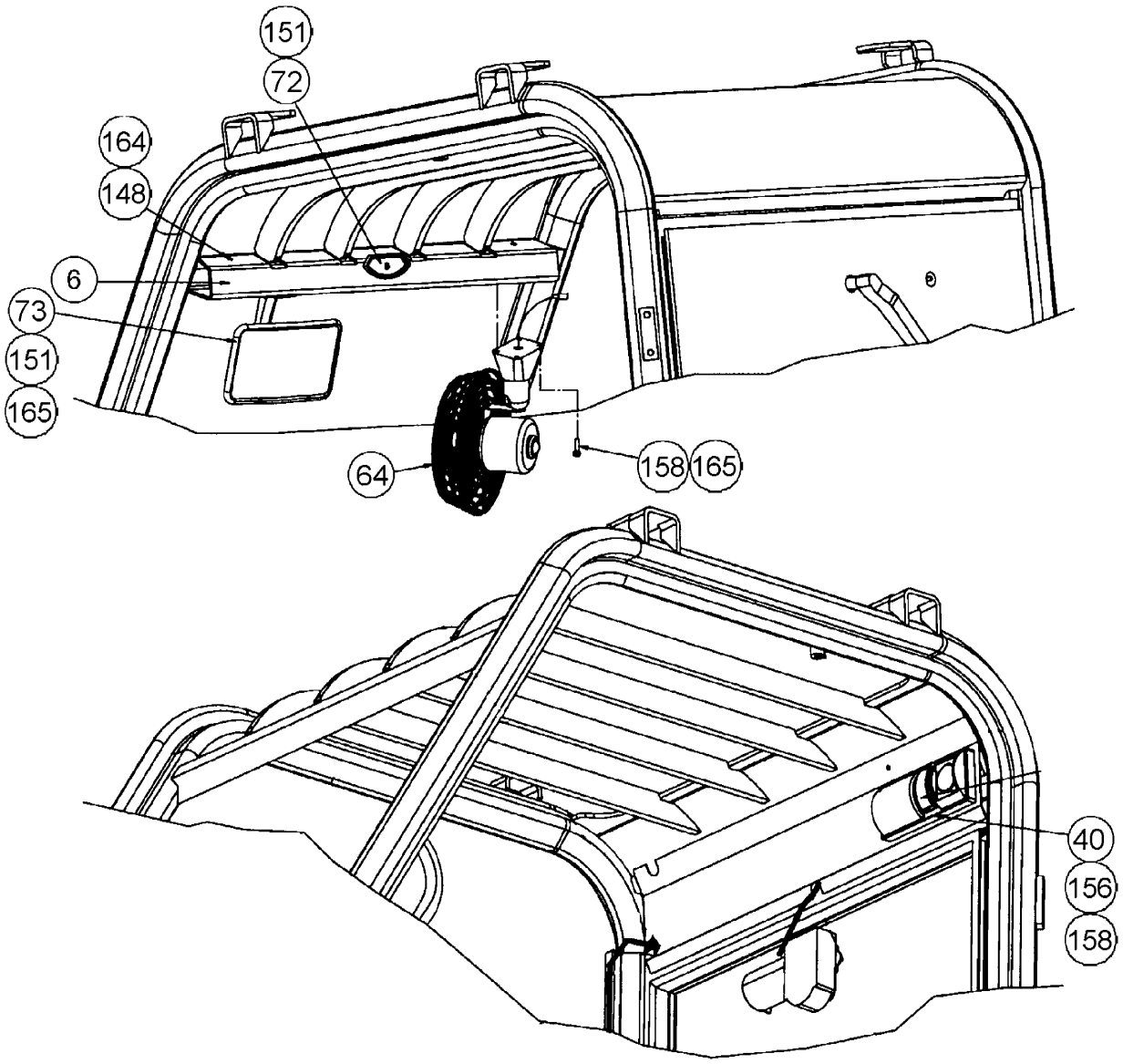


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
37	13174032	Rear Window Assembly	1	
53	59072694	Rear Wiper Arm	3	
55	59194514	Wiper Blade	2	14.0"
186	59194548	Wiper Motor Kit	3	
-	NSS	-Wiper Motor	1	
-	NSS	-Grommet	5	
-	NSS	-Bushing	1	
-	NSS	-Cap	1	
-	NSS	-Sealing Washer	1	
-	NSS	-Screw	22	M16 x 16
-	NSS	-Flatwasher	3	
-	NSS	-Flatwasher	31	M6
-	NSS	-Locknut	4	M6-1.0

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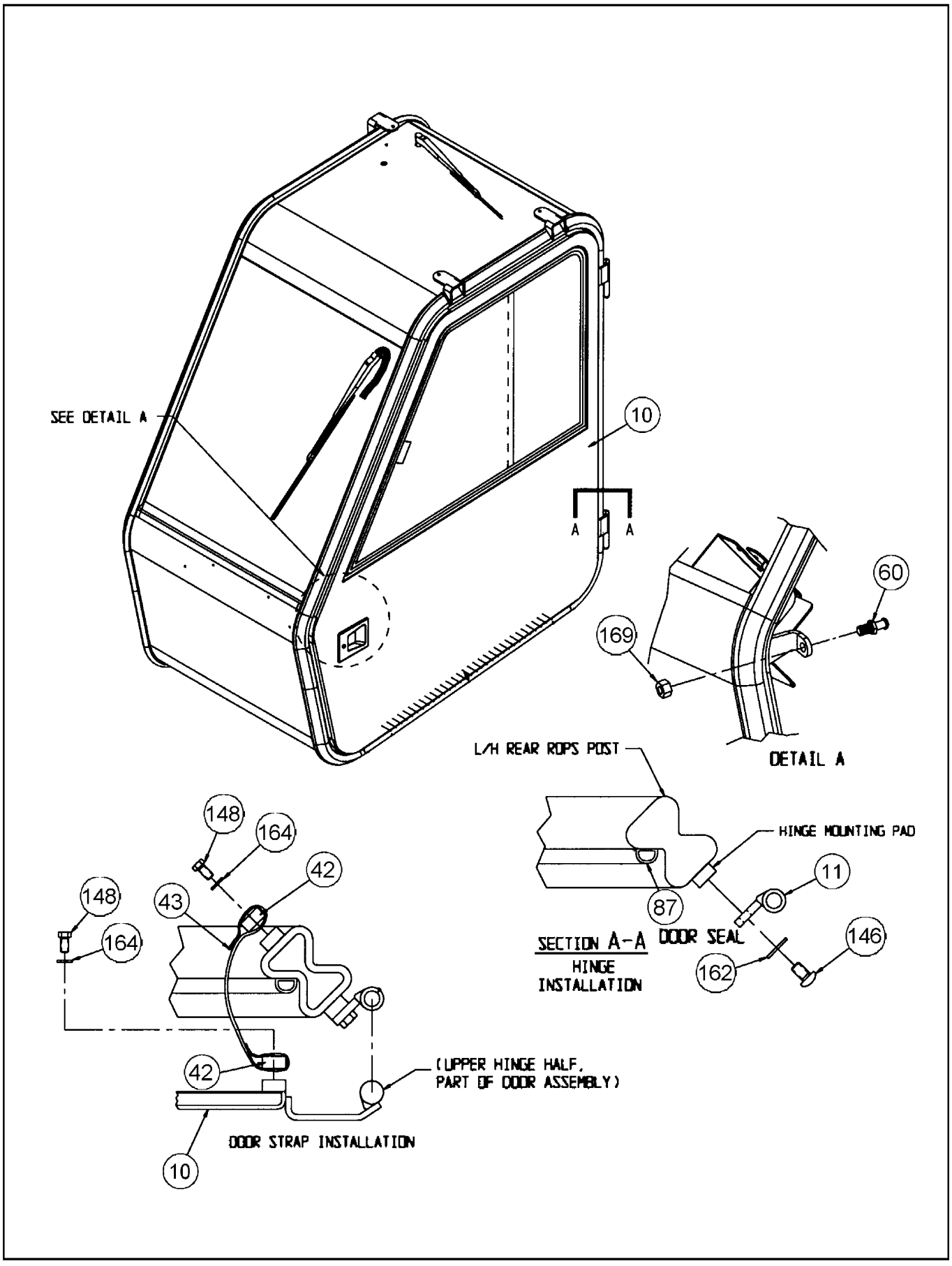
ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 11 OF 15



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
6	13174040	Accessory Mount	1	
40	58962879	Interior Light	1	
64	59154757	Defrost Fan	1	
72	59181545	Level Gauge Kit	1	
-	59181537	-Level Gauge	1	
73	59154625	Mirror Assembly	1	
148	96701958	SCREW	22	M16 x 16
151	96705736	HHCS	2	M5-0.8 x 20
156	96702394	HHCS	4	M6-1.0 x 12
158	96706809	HHCS	1	M6-1.0 x 40
164	96741053	Flatwasher	31	M6
165	96738554	Flatwasher	8	M5

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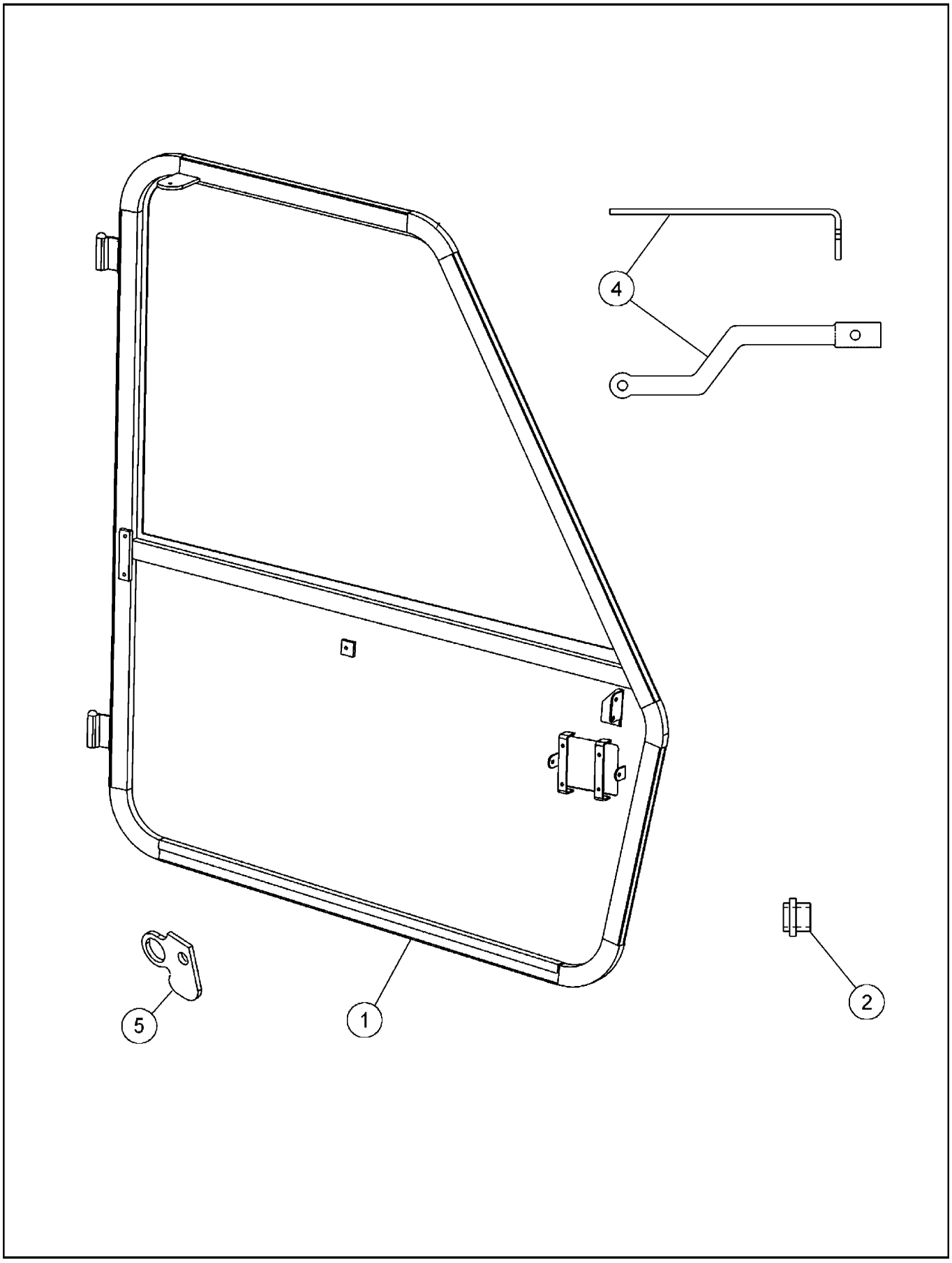


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
10	**13174016**	**Door Assembly**	**1**	**See Sheets 18, 19 & 20**
11	59155747	Door Hinge Pin	1	
42	54718366	Door Strap Clamp Bar	1	
43	59142851	Door Strap	1	
60	59195909	Striker Bolt	1	
87	54628326	Door Weatherstrip	14	
146	96721022	BHCS	4	M8-1.25 x 16
148	96701958	Screw	22	M16 x 16
162	96741038	Flatwasher	10	M8
164	96741053	Flatwasher	31	M6
169	96704291	Nut	1	M12-1.75

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 13 OF 15

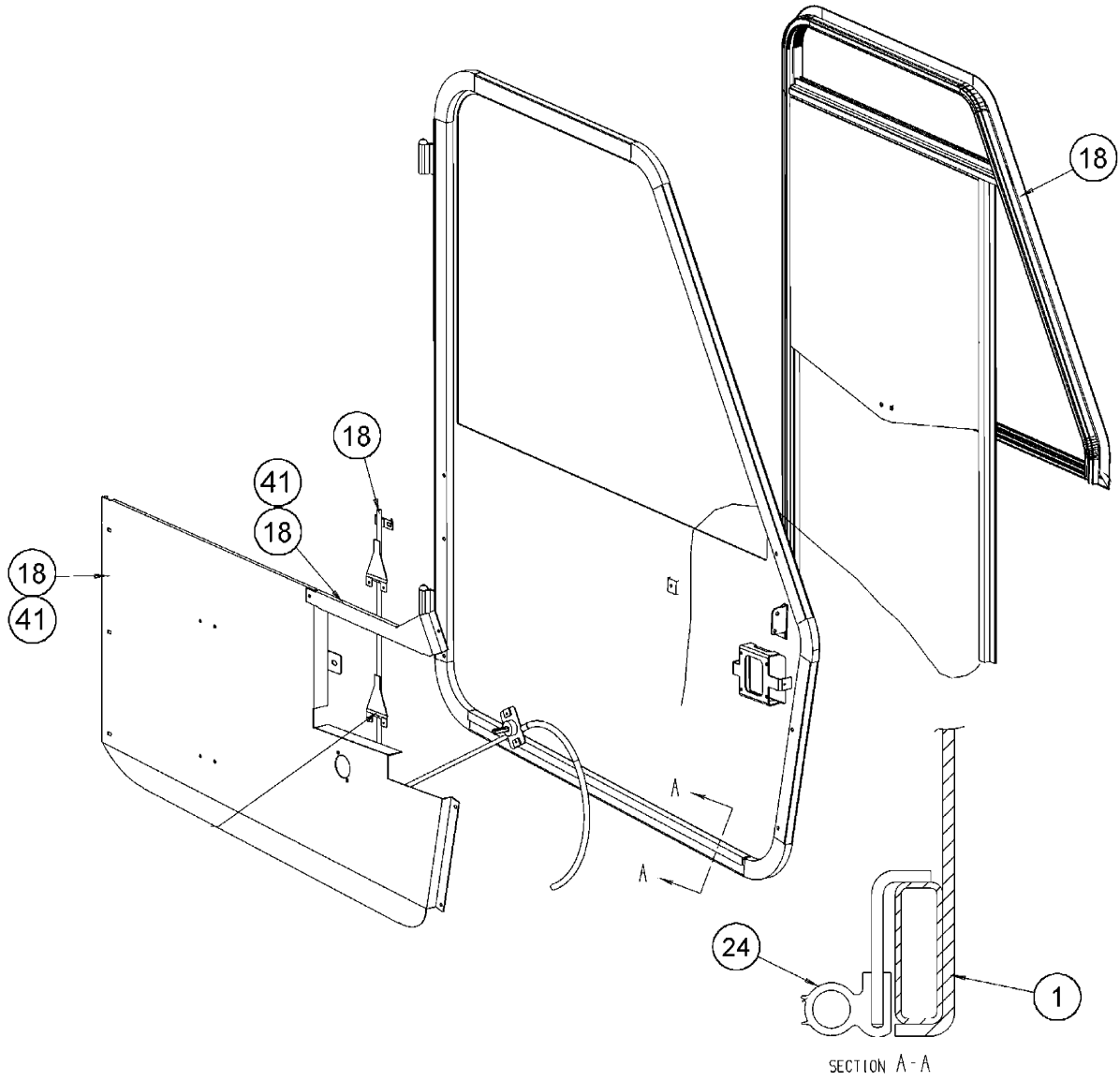


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
**	13191291	Cab Door Assembly	1	
1	22080170	Cab Door	1	
2	22080188	Door Latch Spacer	1	
4	22080196	Door Latch Linkage Rod	1	
5	22080204	Door Linkage	1	

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 14 OF 15

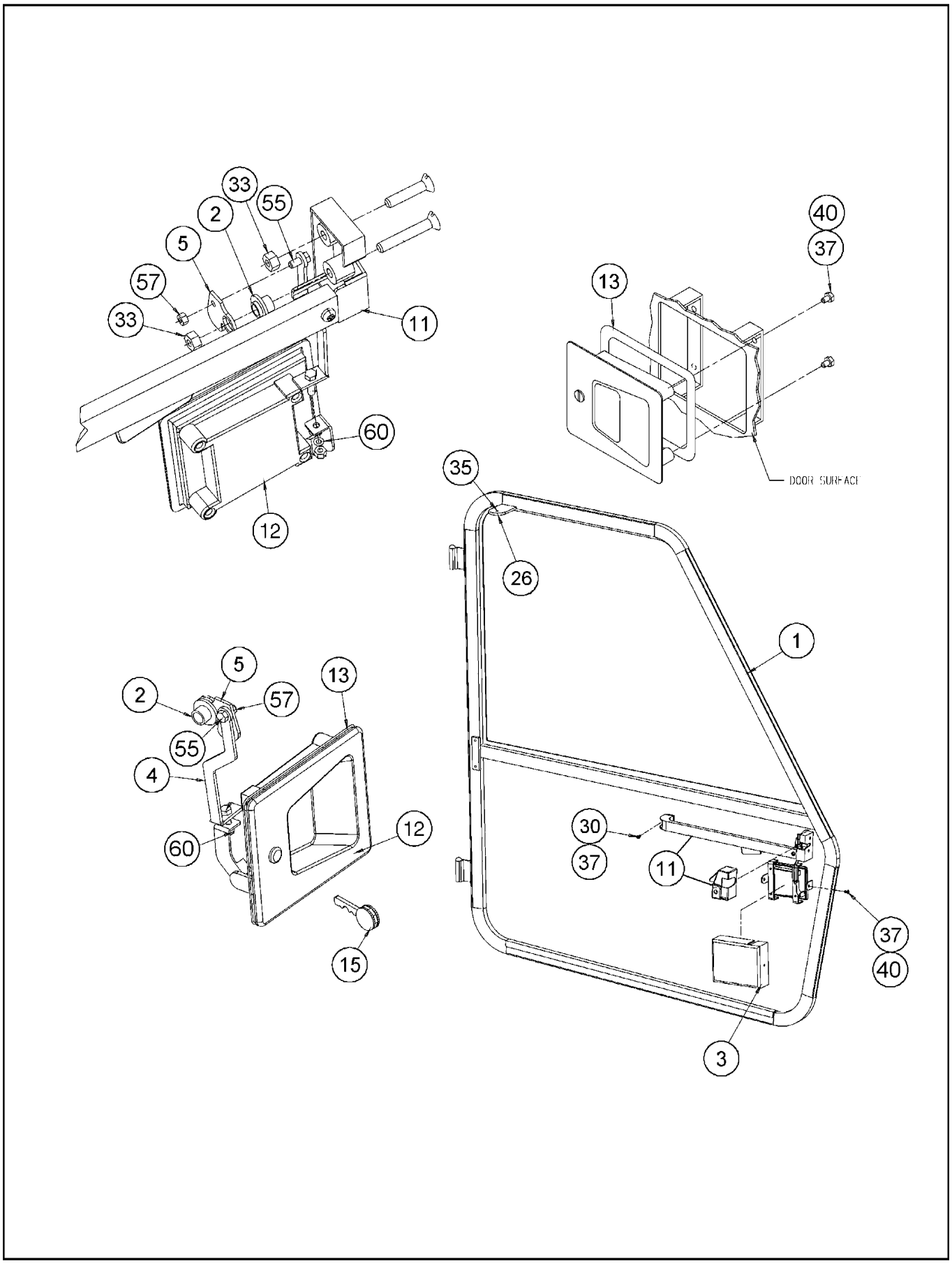


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
**	13191291	Cab Door Assembly	1	
1	22080170	Cab Door	1	
18	22080220	Rolldown Window Assembly	1	
24	59072702	Door Seal	1	
41	96738554	Hardened Flatwasher	7	M5

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ENCLOSED CAB ASSEMBLY (59290692) - INTERNAL BREAKDOWN - SHEET 15 OF 15

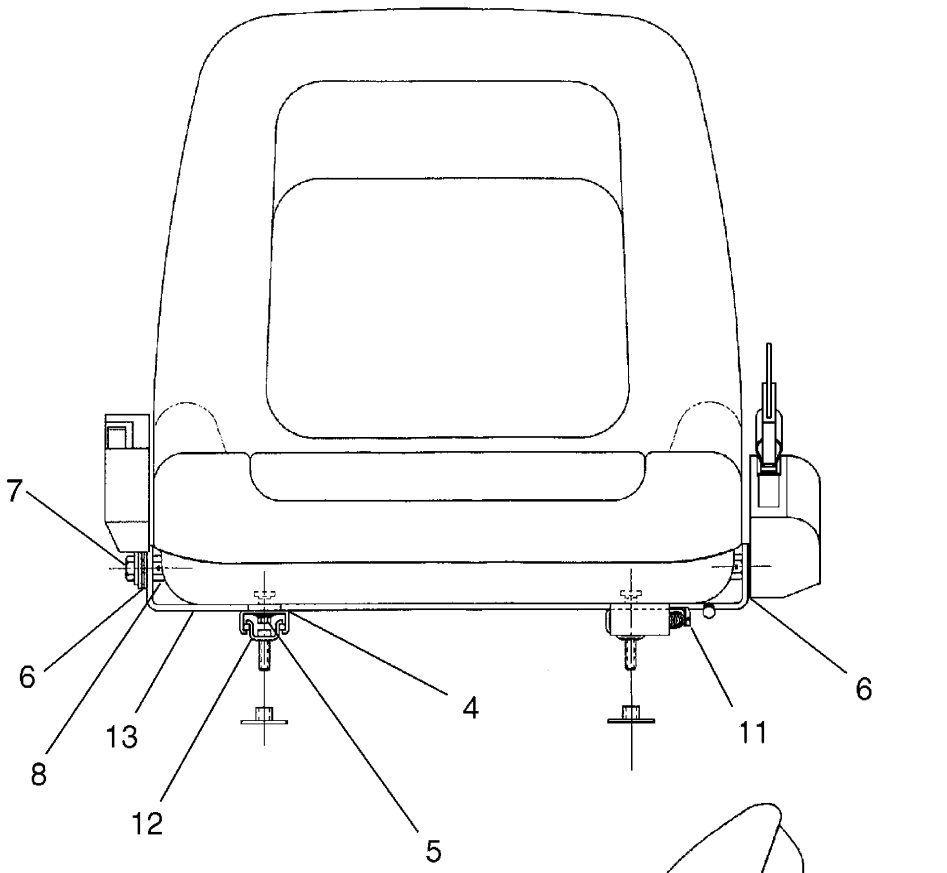


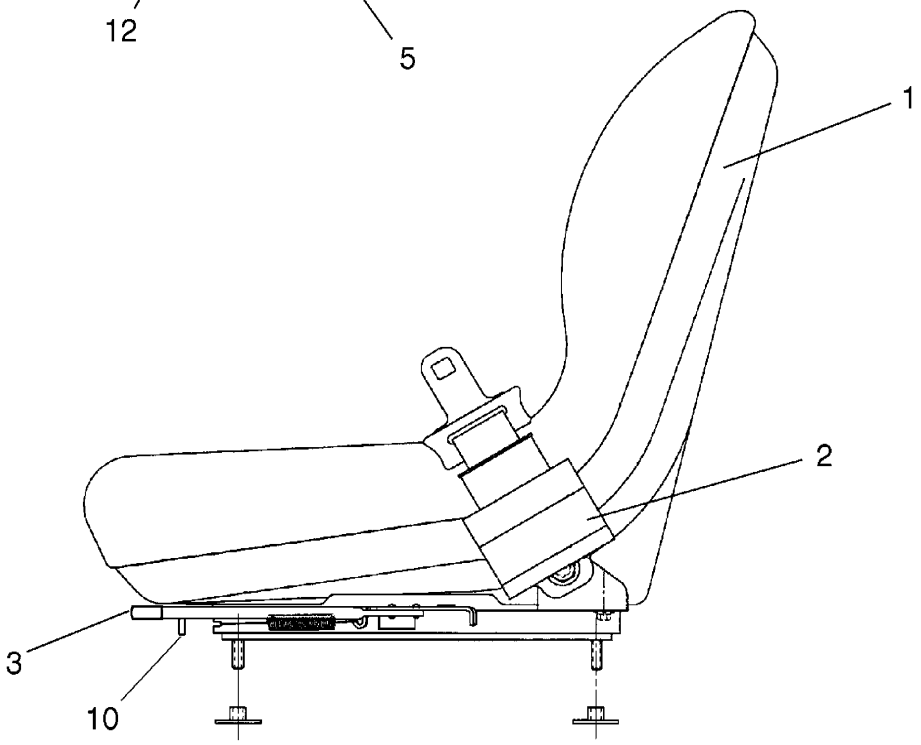
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
**	13191291	Cab Door Assembly	1	
1	22080170	Cab Door	1	
2	22080188	Door Latch Spacer	1	
3	13224662	Door Latch Cover	1	
4	22080196	Door Latch Linkage Rod	1	
5	22080204	Door Linkage	1	
11	59154955	Inside Latch Handle	1	
12	59142661	Outside Door Latch	1	
13	22080212	Outside Latch Gasket	1	
15	59155598	Door Key	2	
26	22080238	Ball Stud	1	
33	96728431	Locknut	2	M8 x 1.25
35	95929782	Hex Nut	1	
37	59545616	Lockwasher	7	
40	96741053	Flatwasher	6	M6
55	96702386	HHCS	1	M5-0.8 x 12
57	96702865	Nut	1	
60	96738554	Hardened Flatwasher	1	M5

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STANDARD SEAT (59156893) - INTERNAL BREAKDOWN





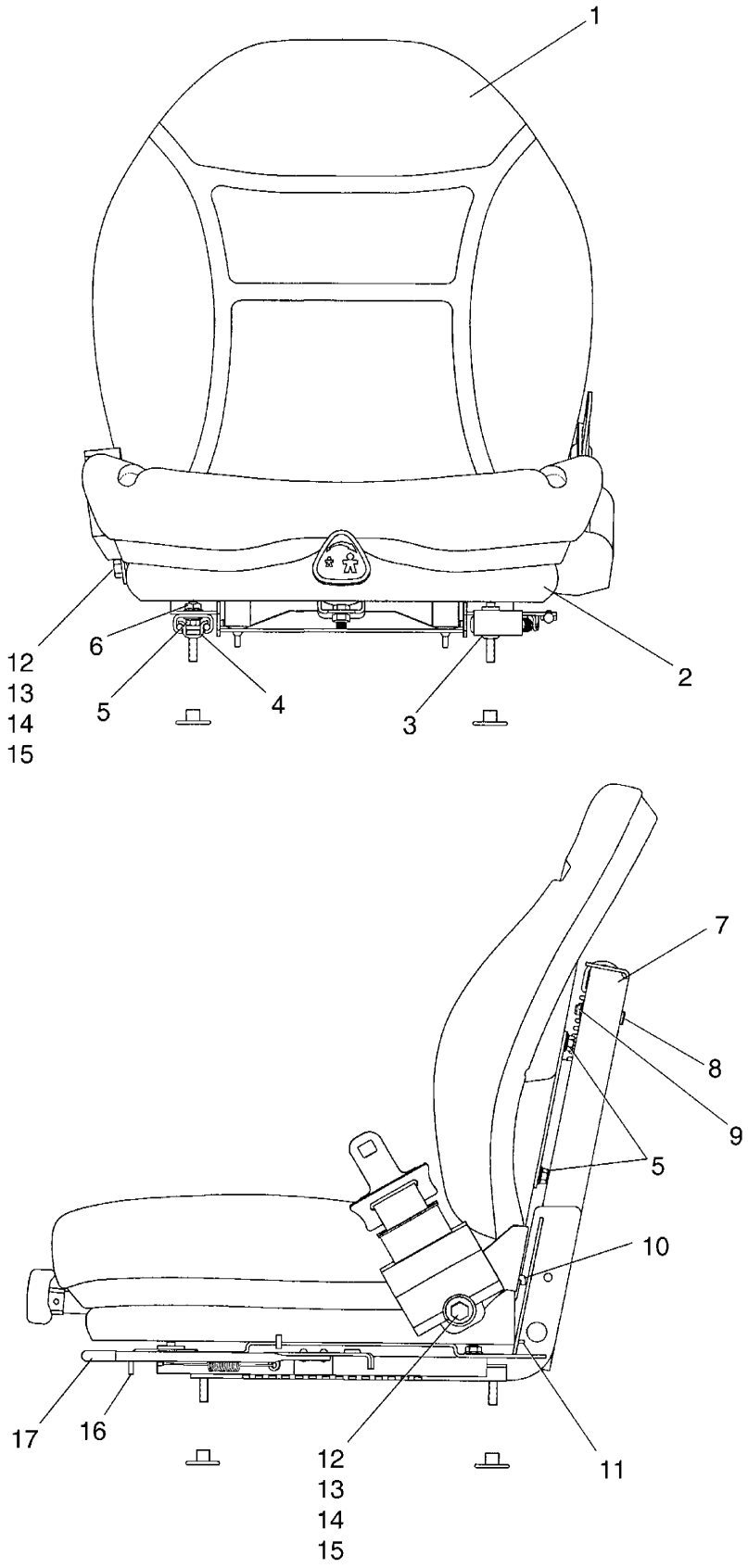
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STANDARD SEAT (59156893) - INTERNAL BREAKDOWN

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59156893-0		
1	59246892	Cushion w/Shell	1	
2	59154419	Seat Belt	1	
3	59154377	Vinyl Tip	1	Gray
4	59154385	Plain Washer	1	
5	59195685	H.H.C.S.	4	
6	59154443	Plain Washer	4	
7	59154427	H.H.C.S.	2	
8	59154435	Hex Nut	2	
9	59195719	Kit (Includes items 10 thru 13)	1	
10	N.S.S.	-Stop Plate	1	
11	N.S.S.	-Adjuster Handle	1	
12	N.S.S.	-Adjuster Slave	1	
13	N.S.S.	-Seat Belt Bracket	1	

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SUSPENSION SEAT (59156901 - INTERNAL BREAKDOWN



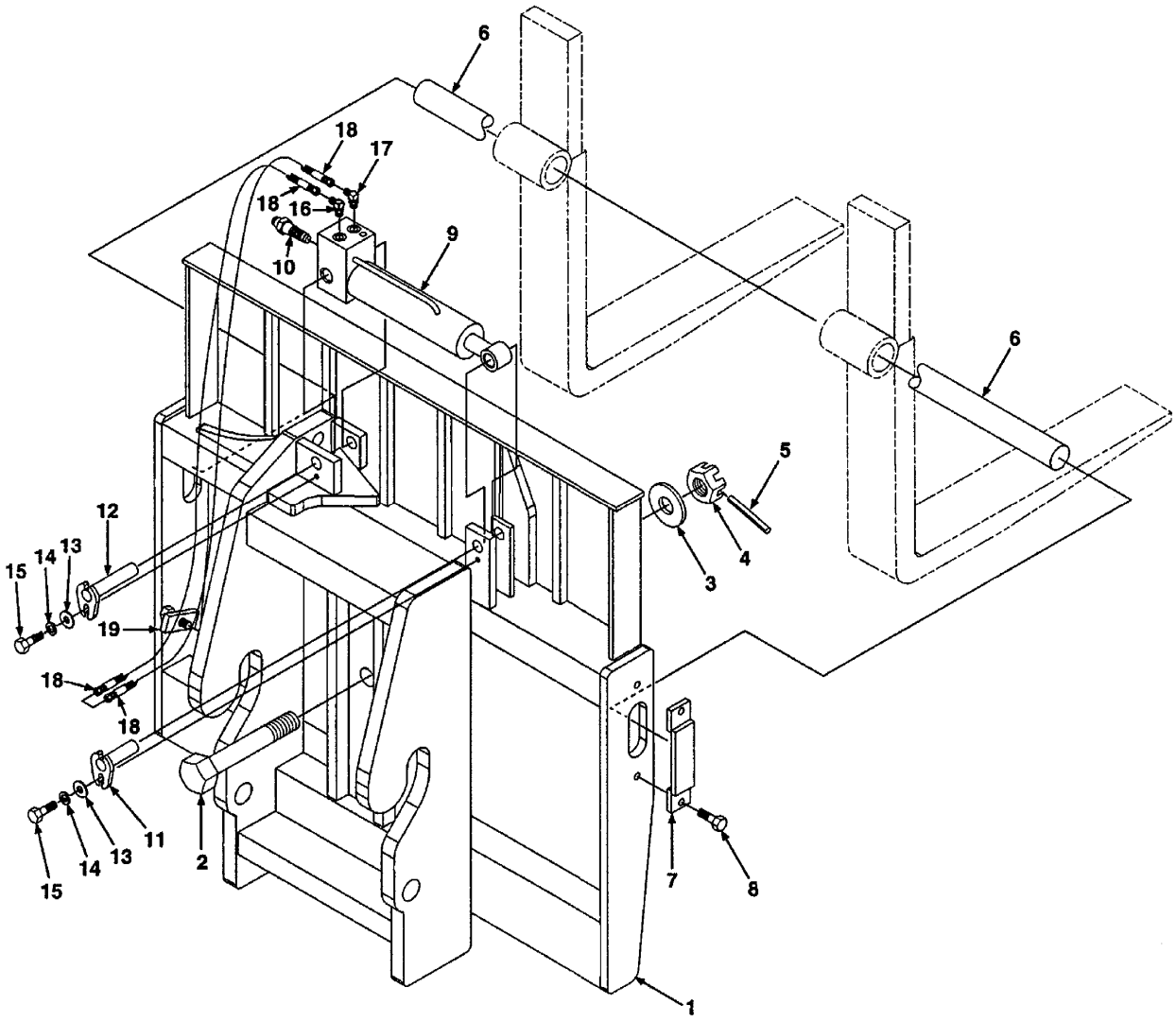
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SUSPENSION SEAT (59156901 - INTERNAL BREAKDOWN

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59156901 - 0		
1	59154823	Pan Assembly w/Cushion	1	
2	59154484	Boot	1	
3	59154351	Adjuster Latch w/Handle	1	
4	59195719	Seat Kit	1	
5	59154476	H.H.C.S.	1	
6	59154542	Flange Lock Nut	3	
7	59154450	Suspension Assy. w/Damper	1	
8	59154518	Clevis Pin	2	3/8 x 1.75
9	59154526	Push Nut	2	
10	59154492	Upper Wire Form	1	
11	59154500	Lower Wire Form	2	
12	59154427	H.H.C.S.	2	7/16-20 x 1.00
13	59154435	Hex Head Lock Nut	2	7/16-20
14	59154443	Plain Washer	4	
15	59154419	Seal Belt w/Retractor and Buckle	1	
16	59195719	Seat Kit	1	
17	59154377	Vinyl Tip	1	

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48" SIDE TILT CARRIAGE W/ORIFICE - (59199687) -INTERNAL BREAKDOWN



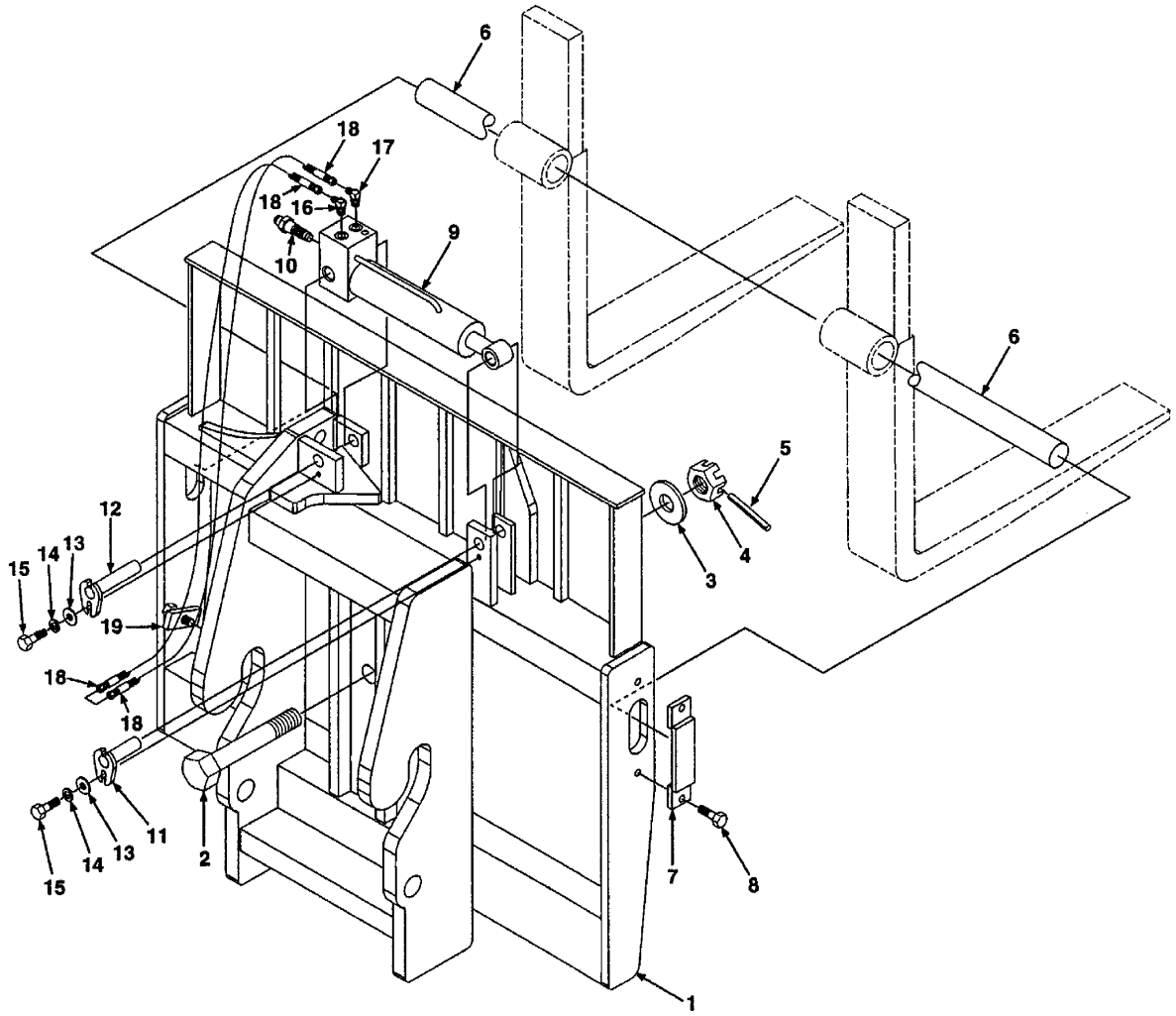
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48" SIDE TILT CARRIAGE W/ORIFICE - (59199687) -INTERNAL BREAKDOWN

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59866790-0		
1	N.S.S.	Front & Rear Frame	1	
2	59231316	Hex Head Bolt	1	1 1/2-6 x 7
3	59231324	Flat Washer	1	1 1/2
4	59231332	Castle Hex Nut	1	1 1/2
5	59231340	Split Pin	1	
6	59231357	Fork Pin	1	2.0 Dia x 49
7	59231365	Fork Pin Retainer	2	
8	59231373	H.H.M.S.	2	1/2-20 x 1 1/2
9	59110932	Cylinder	1	2 1/2 Bore x 8 Stroke
-	59231282	-Seal Kit	1	
10	59231381	Center Valve	2	
-	59231399	-O-Ring Kit	1	
11	59231407	Locking Pin	1	1.0 Dia x 3 1/8
12	59231415	Locking Pin	1	1.0 Dia x 4 5/8
13	59231423	Flat Washer	2	3/8
14	59231431	Lock Washer	2	3/8
15	59231449	H.H.M.S.	2	3/8-24 x 1
16	59231456	Fitting	1	90°
17	59231506	Fitting w/Orifice	1	90°
18	59231464	Hose Assembly	2	69
19	59231472	Hose Clamp	1	
**	59231480	Hose Kit (Includes Items 16 & 18)	1	

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60" SIDE TILT CARRIAGE W/ORIFICE (59199695) - INTERNAL BREAKDOWN



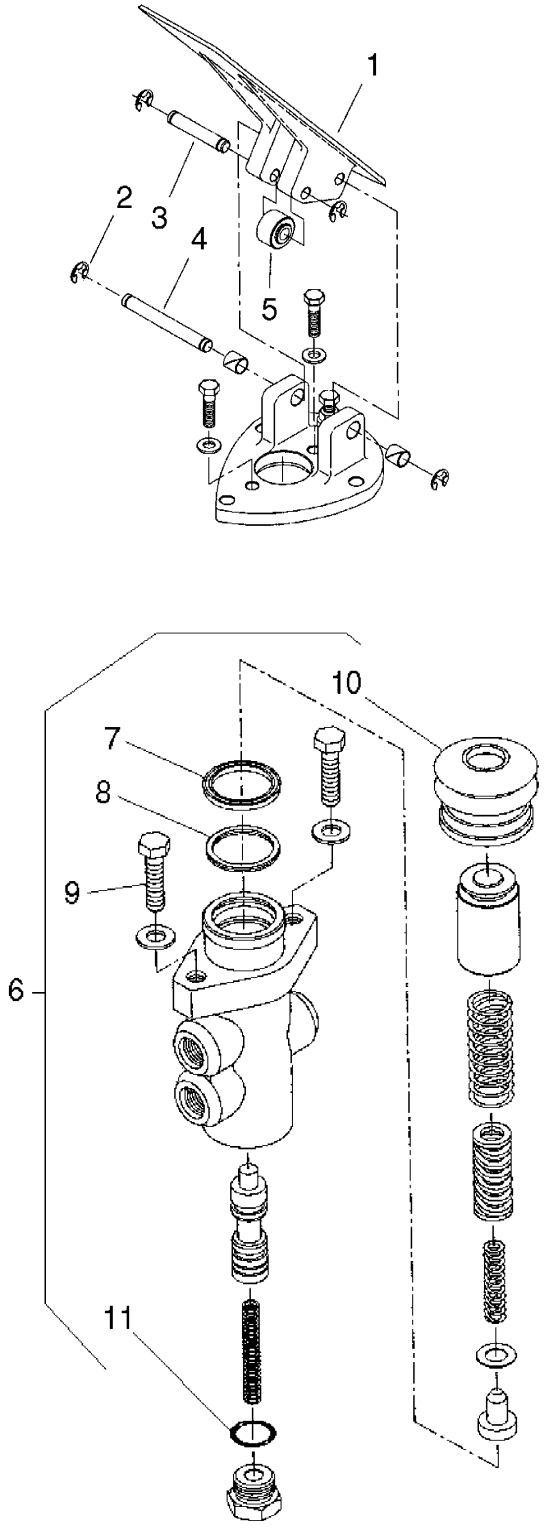
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60" SIDE TILT CARRIAGE W/ORIFICE (59199695) - INTERNAL BREAKDOWN

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59199695-0		
1	N.S.S.	Front & Rear Frame	1	
2	59231316	Hex Head Bolt	1	1 1/2-6 x 7
3	59231324	Flat Washer	1	1 1/2
4	59231332	Castle Hex Nut	1	1 1/2-6
5	59231340	Split Pin	1	
6	59231498	Fork Pin	1	2.0 Dia x 64
7	59231365	Fork Pin Retainer	1	
8	59231373	H.H.M.S.	2	1/2-20 x 1 1/2
9	59110932	Cylinder	1	2 1/2 Bore x 8 Stroke
-	59231282	-Seal Kit	1	
10	59231381	Center Valve	2	
-	59231399	-O-Ring Kit	1	
11	59231407	Locking Pin	1	1.0 Dia x 3 1/8
12	59231415	Locking Pin	1	1.0 Dia x 4 5/8
13	59231423	Flat Washer	2	3/8
14	59231431	Lock Wahser	2	3/8
15	59231449	H.H.M.S.	2	3/8-24 x 1
16	59231456	Fitting	1	90
17	59231506	Fitting w/Orifice	1	90
18	59231464	Hose Assembly	2	69
19	59231472	Hose Clamp	1	
**	59231480	Hose Kit (Includes Items 16 & 18)	1	

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BRAKE VALVE (59113480) - INTERNAL BREAKDOWN



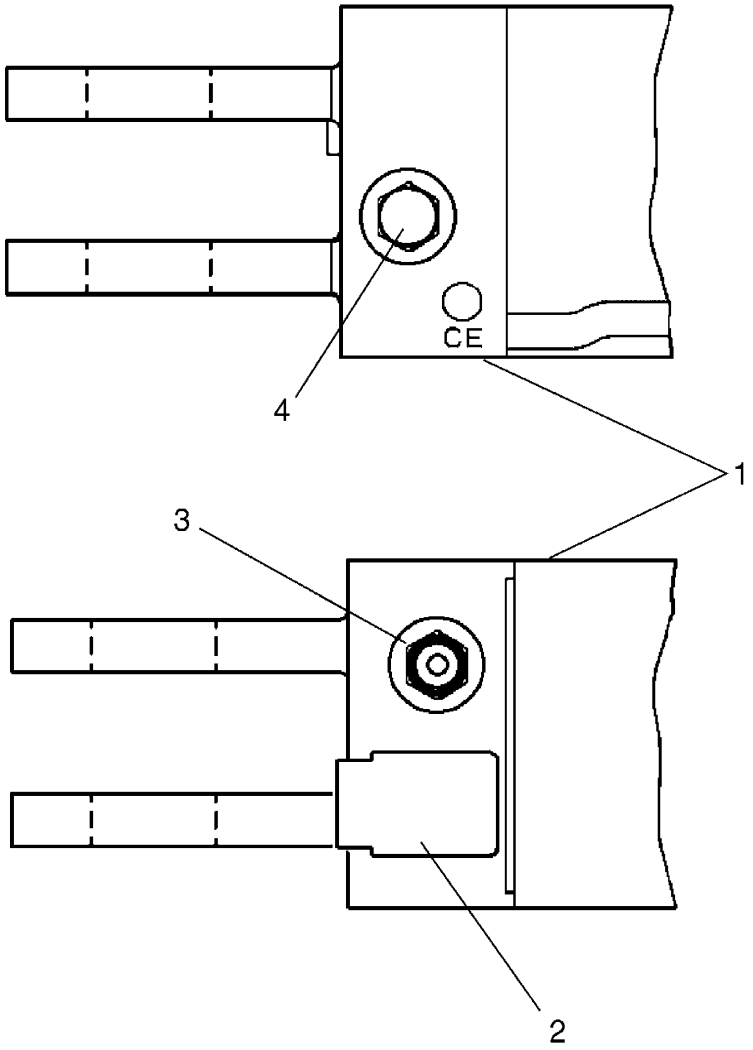
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BRAKE VALVE (59113480) - INTERNAL BREAKDOWN

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM59113480-01		
1	59154567	Pedal	1	
2	59154575	Ring	1	
3	59154583	Pin	1	
4	59154591	Pin	1	
5	59154609	Roller	1	
6	59154617	Repair Kit (includes items 7 thru 11)	A/R	
7	N.S.S.	-Seal	1	
8	N.S.S.	-Cup	1	
9	N.S.S.	-H.H.C.S.	1	
10	N.S.S.	-Boot	1	
11	N.S.S.	-O-ring	1	

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STABILIZER CYLINDER (59136937) - INTERNAL BREAKDOWN

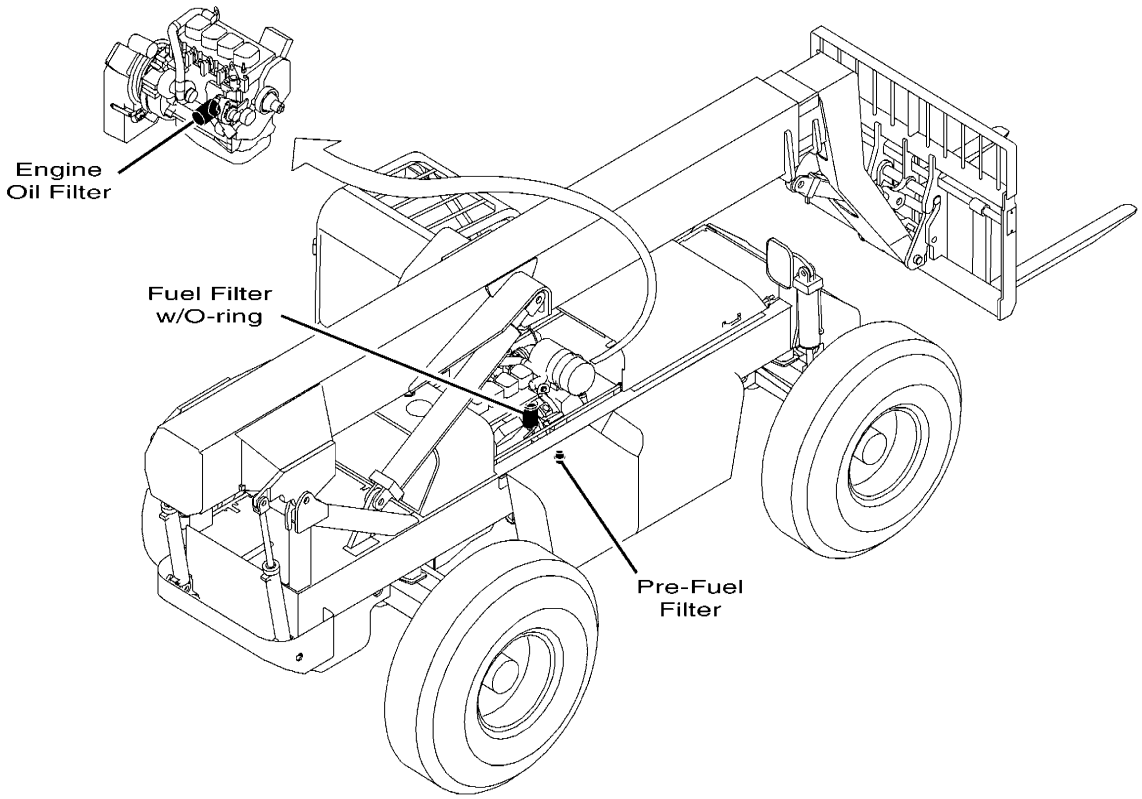


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STABILIZER CYLINDER (59136937) - INTERNAL BREAKDOWN

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM59136937-2		
1	59136937	Stabilizer Cylinder	1	
-	57181240	-Locknut	1	
-	59144253	-Seal Kit	1	
2	59195644	Solenoid Valve	1	
-	59195651	-Solenoid	1	
3	59195669	Counterbalance Valve	1	
4	59144295	Pilot Operated Check Valve	1	

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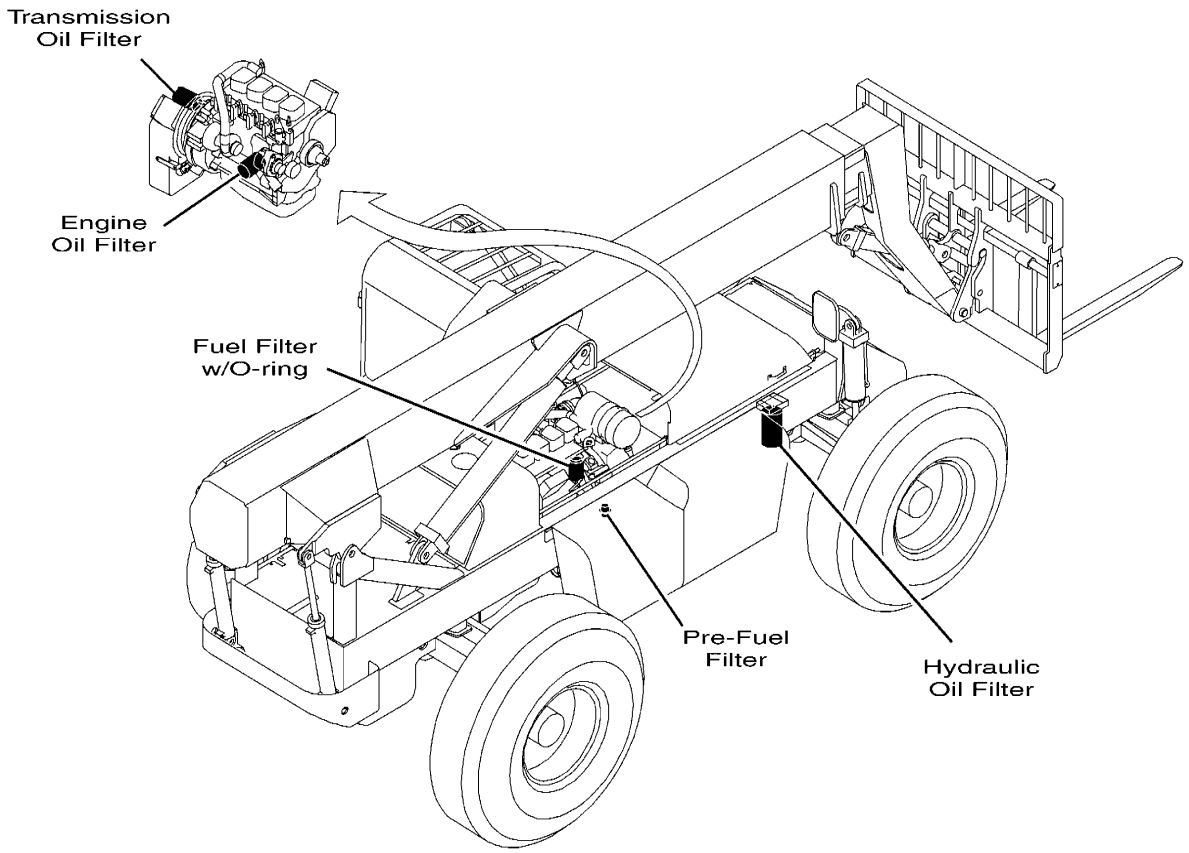
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MAINTENANCE INTERVAL KIT - 250 HOUR

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59261545		
1	59728170	Engine Oil Filter	1	
2	58827932	Pre-Fuel Filter	1	
3	59477570	Fuel Filter w/O-ring	1	

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MAINTENANCE INTERVAL KIT - 1,000 HOUR



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MAINTENANCE INTERVAL KIT - 1,000 HOUR

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 59261560		
1	59728170	Engine Oil Filter	1	
2	58827932	Pre-Fuel Filter	1	
3	59477570	Fuel Filter w/O-ring	1	
4	58886136	Transmission Oil Filter	1	
5	59124677	Hydraulic Oil Filter	1	

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MANUALS

Always use Ingersoll-Rand Replacement parts!

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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		BOM 13226956		
1	59201509	Operation/Maintenance Manual	1	
2	13226964	Parts Manual	1	
3	59482919	Engine Operation Manual	1	
4	59250977	Engine Parts Manual	1	
5	59985069	FIEI Safety Manual	1	

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WORD INDEX

A

Air Cleaner Primary Filter Element ____ C.3.3
Air Cleaner Secondary Filter Element ____ C.3.3
Air Cleaner ____ C.3.3
Air Filter Service Indicator ____ C.3.3
Alarm, Backup ____ E.3.3
Alternator ____ C.1.3
Apron, Quick-Attach ____ F.10.3
Arm, Load ____ F.9.3, F.11.3, F.16.3
Auxiliary Hydraulics Chassis Harness ____ H.18.3
Auxiliary Hydraulics Control Switch ____ H.18.3
Axle, Front ____ B.1.3
Axle, Rear ____ B.1.3

B

Backup Alarm ____ E.3.3
Battery Cable, Negative ____ E.1.3, E.1.5
Battery Cable, Positive ____ E.1.3, E.1.5
Battery ____ E.2.3
Beacon Light Switch ____ E.7.3
Beige Paint (Gallon) ____ G.1.5
Beige Paint (Spray Can) ____ G.1.5
Belt, Fan ____ C.1.3
Block-type Fork ____ F.14.3
Blower Fan Switch ____ D.7.3
Boom, Inner ____ F.6.3
Boom, Intermediate ____ F.5.3
Boom, Outer ____ F.4.3, F.4.5
Boom, Truss ____ F.12.3
Box, Counterweight ____ A.3.3
Bracket, Hydraulic ____ H.16.3
Brake Light Bulb ____ E.6.3
Brake Light Switch ____ E.6.3, H.29.5
Brake Valve ____ H.8.3
Bucket ____ F.13.3
Bulb, Brake Light ____ E.6.3
Bulb, Turn Signal ____ E.6.3

C

Cage, Strobe Light ____ E.7.3
Cap, Fuel Filler/Breather ____ A.5.3
Cap, Hydraulic Tank Filler/Breather ____ A.7.3
Cap, Radiator ____ C.5.3
Cap, Waterbottle ____ C.5.3, C.5.5
Carriage, Quick-Attach ____ F.9.3
Carriage, Side Tilt Quick-Attach ____ F.11.3
Carriage, Swing ____ F.17.3, F.17.5
Case, Manual ____ D.5.3
Chain Sheave ____ F.7.3, F.8.3
Chassis Harness, Auxiliary Hydraulics ____ H.18.3
Chassis Wiring Harness ____ E.1.3, E.1.5
Cold Start (Ether) Switch ____ C.7.3
Column, Steering ____ H.5.3
Console Harness ____ D.2.3, I.3.21
Console ____ D.2.3, I.3.21
Control Panel Plate ____ G.1.7
Control Switch, Auxiliary Hydraulics ____ H.18.3
Cooler, Oil ____ C.5.3
Counterweight Box ____ A.3.3
Cover, Engine ____ A.2.3
Cover, Rear ____ A.1.3
Cover, Vandal ____ D.6.3
Crowd And Lift Valve ____ H.12.3
Crowd Cylinder ____ F.3.3
Cylinder, Crowd ____ F.3.3
Cylinder, Ether ____ C.7.3
Cylinder, Fork Tilt ____ F.1.3
Cylinder, Frame Level ____ B.1.3
Cylinder, Hydraulic ____ F.17.5
Cylinder, Lift ____ F.1.3
Cylinder, Stabilizer ____ H.31.3
Cylinder, Tilt Compensation ____ F.1.3

D

Decal Kit ____ G.1.5
Decal: ABCD ____ F.5.3
Decal: Angle ____ D.5.3
Decal: Crush Warning ____ H.31.3
Decal: EFG ____ F.5.3
Decal: Front Controller ____ G.3.3
Decal: Fuse Chart ____ G.1.7
Decal: I-R Corporate Monogram ____ G.2.3
Decal: Operators Manual ____ D.5.3
Decal: Quick-Attach Carriage ____ F.9.3
Decal: Rear Controller ____ G.3.3
Decal: Single Joystick ____ G.4.3
Decal: Windshield Wiper ____ G.2.3
Draw Latch ____ A.1.3
Driver Valve ____ H.24.3
Dual Control Manifold ____ H.21.3
Dual Control Wire Harness ____ H.20.3

E

Element, Air Cleaner Primary Filter ____ C.3.3
Element, Air Cleaner Secondary Filter ____ C.3.3
Engine Coolant Temperature Sender ____ C.1.3
Engine Cover ____ A.2.3
Engine Oil Filter ____ C.1.3, M.1.3, M.2.3
Engine Oil Pressure Switch ____ C.1.5
Engine Operation Manual ____ P.1.3
Engine Parts Manual ____ P.1.3
Engine ____ C.1.3
Ether Cylinder ____ C.7.3
Ether Harness ____ C.7.3
Ether/Thermo Harness ____ C.7.3
Exhaust Pipe ____ C.4.3

https://truckmanualshub.com/

WORD INDEX

F

Fan Belt ____ C.1.3
Fan ____ C.1.3
Fender ____ A.1.3
FIEI Safety Manual ____ P.1.3
Filter Element, Air Cleaner Primary ____ C.3.3
Filter Element, Air Cleaner Secondary ____ C.3.3
Filter w/O-ring, Fuel ____ M.1.3, M.2.3
Filter, Fuel/Water Separator ____ C.1.3
Filter, Hydraulic Oil ____ M.2.3
Filter, Hydraulic ____ H.3.3
Filter, Inline Fuel ____ C.1.3
Filter, Pre-Fuel ____ M.1.3, M.2.3
Filter, Transmission Oil ____ M.2.3
Flow Control Valve ____ F.17.5
Fork Tilt Cylinder ____ F.1.3
Fork, Block-type ____ F.14.3
Fork, Lumber ____ F.15.3
Fork, Tapered ____ F.15.3
Frame Level Cylinder ____ B.1.3
Frame, Main ____ A.1.3
Front Axle ____ B.1.3
Fuel Filler/Breather Cap ____ A.5.3
Fuel Filter w/O-ring ____ M.1.3, M.2.3
Fuel Level Gauge ____ D.3.3, I.3.23
Fuel Level Sender ____ A.5.3
Fuel Tank ____ A.5.3
Fuel/Water Separator Filter ____ C.1.3
Fuse ____ H.30.3

G

Gauge Lights Harness ____ E.5.3
Gauge, Fuel Level ____ D.3.3, I.3.23
Gauge, Level ____ I.3.19
Gauge, Oil Pressure ____ D.3.3, I.3.23
Gauge, Sight ____ A.7.3
Gauge, Transmission Temperature ____ D.3.3, I.3.23
Gauge, Water Temperature ____ D.3.3, I.3.23
Ground Strap ____ C.1.3

H

Handle, Pull ____ A.2.3
Harness, Chassis Wiring ____ E.1.3, E.1.5
Harness, Console ____ D.2.3, I.3.21
Harness, Ether ____ C.7.3
Harness, Ether/Thermo ____ C.7.3
Harness, Gauge Lights ____ E.5.3
Harness, Road Lights ____ E.4.5
Horn Brush Kit ____ H.5.3
Horn ____ E.2.3
Hose, Upper Radiator ____ C.5.3
Hourmeter ____ D.3.3, I.3.23
Hydraulic Bracket ____ H.16.3
Hydraulic Cylinder ____ F.17.5
Hydraulic Drain Manifold ____ H.23.3, H.28.3
Hydraulic Filter ____ H.3.3
Hydraulic Oil Filter ____ M.2.3
Hydraulic Pump ____ H.2.3
Hydraulic Tank Filler/Breather Cap ____ A.7.3
Hydraulic Tank Strainer ____ A.7.3
Hydraulic Tank ____ A.7.3

I

Ignition Key ____ D.2.3, I.3.21
Ignition Switch ____ D.2.3, I.3.21
Indicator, Air Filter Service ____ C.3.3
Inline Fuel Filter ____ C.1.3
Inner Boom ____ F.6.3
Intermediate Boom ____ F.5.3

J

Joystick ____ H.20.3
Joystick, Single Lever ____ H.25.3

K

Key, Ignition ____ D.2.3, I.3.21
Kit, Horn Brush ____ H.5.3
Kit, Rotating Beacon ____ E.7.3
Kit, Starting ____ C.7.3

L

Lamp, Work ____ E.5.3, E.5.5
Latch, Draw ____ A.1.3
Left Stabilizer Switch ____ H.30.3
Level Gauge ____ I.3.19
Lever, Throttle ____ C.2.3
Lift Cylinder ____ F.1.3
Light Switch, Beacon ____ E.7.3
Light, Stop/Turn Signal ____ E.6.3
Light, Strobe ____ E.7.3
Load Arm ____ F.9.3, F.11.3, F.16.3
Lower Radiator Hose ____ C.5.3
Lumber Fork ____ F.15.3

M

Main Frame ____ A.1.3
Manifold, Dual Control ____ H.21.3
Manifold, Hydraulic Drain ____ H.23.3, H.28.3
Manifold, Single Control ____ H.26.3
Manifold, Stabilizer ____ H.29.5
Manual Case ____ D.5.3
Manual, Engine Operation ____ P.1.3
Manual, Engine Parts ____ P.1.3
Manual, FIEI Safety ____ P.1.3
Manual, Operation/Maintenance ____ P.1.3

https://truckmanualshub.com/

WORD INDEX

Manual, Parts ____ P.1.3
Mirror ____ D.5.3
Motor, Starting ____ C.1.3
Muffler ____ C.4.3

N

Negative Battery Cable ____ E.1.3, E.1.5

O

Oil Filter, Transmission ____ M.2.3
Oil Cooler ____ C.5.3
Oil Filter, Engine ____ C.1.3, M.1.3, M.2.3
Oil Filter, Hydraulic ____ M.2.3
Oil Pressure Gauge ____ D.3.3, I.3.23
Oil Pressure Sender ____ C.1.3
Operation/Maintenance Manual ____ P.1.3
Orbital, Steering ____ H.6.3
Outer Boom ____ F.4.3, F.4.5

P

Pad, Wear ____ A.1.3, F.3.3, F.4.3, F.5.3, F.6.3, H.31.3
Paint, Beige (Gallon) ____ G.1.5
Paint, Beige (Spray Can) ____ G.1.5
Parking Brake Switch ____ D.2.3, I.3.21
Parts Manual ____ P.1.3
Pipe, Exhaust ____ C.4.3
Pipe, Tail ____ C.4.3
Plate, Control Panel ____ G.1.7
Pointer ____ D.5.3
Positive Battery Cable ____ E.1.3, E.1.5
Pre-Fuel Filter ____ M.1.3, M.2.3
Pressure Switch ____ H.2.3, H.23.3, H.28.3
Primary Filter Element, Air Cleaner ____ C.3.3
Pull Handle ____ A.2.3
Pump, Hydraulic ____ H.2.3

Q

Quick-Attach Apron Assembly ____ F.9.3
Quick-Attach Apron ____ F.10.3
Quick-Attach Carriage ____ F.9.3

R

Radiator Cap ____ C.5.3
Radiator Hose, Lower ____ C.5.3
Radiator ____ C.5.3
Rear Axle ____ B.1.3
Rear Cover ____ A.1.3
Right Front Work Light ____ E.5.5
Right Stabilizer Switch ____ H.30.3
Road Lights Harness ____ E.4.5
Rotating Beacon Kit ____ E.7.3

S

Seat ____ D.4.3
Secondary Filter Element, Air Cleaner ____ C.3.3
Sender, Engine Coolant Temperature ____ C.1.3
Sender, Fuel Level ____ A.5.3
Sender, Oil Pressure ____ C.1.3
Sender, Transmission Temperature ____ C.1.3
Service Indicator, Air Filter ____ C.3.3
Sheave, Chain ____ F.7.3, F.8.3
Side Tilt Quick-Attach Carriage ____ F.11.3
Sight Gauge ____ A.7.3
Single Control Manifold ____ H.26.3
Single Lever Joystick ____ H.25.3
Solenoid Valve ____ H.18.3
Stabilizer Chassis Wire Harness ____ H.30.3
Stabilizer Cylinder ____ H.31.3
Stabilizer Manifold ____ H.29.5
Starting Kit ____ C.7.3
Starting Motor ____ C.1.3
Steering Column ____ H.5.3
Steering Mode Switch ____ D.2.3, I.3.21
Steering Orbital ____ H.6.3
Steering Priority Valve ____ H.7.3
Steering Selector Valve ____ H.9.3
Stop/Turn Signal Light ____ E.6.3
Strainer, Hydraulic Tank ____ A.7.3
Strap, Ground ____ C.1.3
Strobe Light Cage ____ E.7.3
Strobe Light ____ E.7.3
Swing Carriage ____ F.17.3, F.17.5
Switch, Blower Fan ____ D.7.3
Switch, Brake Light ____ E.6.3, H.29.5
Switch, Cold Start (Ether) ____ C.7.3
Switch, Engine Oil Pressure ____ C.1.5
Switch, Ignition ____ D.2.3, I.3.21
Switch, Left Stabilizer ____ H.30.3
Switch, Parking Brake ____ D.2.3, I.3.21
Switch, Pressure ____ H.2.3, H.23.3, H.28.3
Switch, Right Stabilizer ____ H.30.3
Switch, Steering Mode ____ D.2.3, I.3.21
Switch, Thermo ____ C.7.3
Switch, Turn Signal ____ E.6.3
Switch, Work Lights ____ E.5.3

T

Tail Pipe ____ C.4.3
Tank, Fuel ____ A.5.3
Tank, Hydraulic ____ A.7.3
Tapered Fork ____ F.15.3
Thermo Switch ____ C.7.3
Throttle Lever ____ C.2.3
Tilt Compensation Cylinder ____ F.1.3
Tire ____ B.2.3

https://truckmanualshub.com/

WORD INDEX

Transmission Oil Filter ____ M.2.3
Transmission Temperature Gauge ____ D.3.3, I.3.23
Transmission Temperature Sender ____ C.1.3
Transmission ____ C.1.3
Truss Boom ____ F.12.3
Turn Signal Bulb ____ E.6.3
Turn Signal Switch ____ E.6.3

U

Upper Radiator Hose ____ C.5.3

V

Valve, Brake ____ H.8.3
Valve, Crowd And Lift ____ H.12.3
Valve, Driver ____ H.24.3
Valve, Flow Control ____ F.17.5
Valve, Solenoid ____ H.18.3
Valve, Steering Priority ____ H.7.3
Valve, Steering Selector ____ H.9.3
Vandal Cover ____ D.6.3
Voltmeter ____ D.3.3, I.3.23

W

Water Temperature Gauge ____ D.3.3, I.3.23
Waterbottle Cap ____ C.5.3, C.5.5
Waterbottle ____ C.5.3
Wear Pad ____ A.1.3, F.3.3, F.4.3, F.5.3, F.6.3, H.31.3
Wheel and Tire ____ B.2.3
Wheel and Tire ____ B.2.3
Wire Harness, Dual Control ____ H.20.3
Wire Harness, Stabilizer Chassis ____ H.30.3
Work Lamp ____ E.5.3, E.5.5
Work Light, Right Front ____ E.5.5
Work Lights Switch ____ E.5.3

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
13043559	H.29.5		I.3.21		I.4.7	13190954	H.15.5
13082839	I.2.5	13168562	H.9.3	13174073	I.3.3	13190996	H.10.5
13082870	I.2.11	13168570	H.1.3		I.3.11	13191036	H.4.3
13082987	I.2.11	13168596	D.6.3		I.4.3	13191077	H.10.3
13082995	I.2.11	13170147	F.17.5		I.4.13	13191085	H.15.3
13083019	I.2.11	13170188	F.17.5	13174081	I.4.7	13191093	H.29.5
13083027	I.2.11	13170212	F.17.5		I.4.15	13191101	H.29.3
13104831	H.4.5	13170493	G.1.5	13174099	I.4.17		H.29.5
13106489	F.17.5	13170535	H.20.3	13176995	H.4.5	13191127	H.29.3
13111422	E.2.3	13170543	H.20.3	13179775	C.4.3		H.29.5
13155361	C.1.3	13170550	H.21.3	13181235	H.13.5	13191234	I.3.3
13155734	B.2.3	13170568	H.26.3	13181250	H.4.3		I.3.11
13156716	A.7.3	13170576	H.25.3	13181284	H.4.3		I.4.3
13156781	F.4.3	13170584	H.12.3	13181334	H.13.5		I.4.13
13156799	F.3.3	13170667	F.15.3	13181359	H.22.3	13191267	I.3.3
	F.4.3	13173281	I.3.15		H.27.3		I.3.17
	F.5.3	13173299	I.4.7	13181367	H.27.3		I.4.3
	F.6.3	13173315	I.3.3	13181383	H.22.3		I.4.7
13157599	A.3.3		I.3.7		H.27.3	13191291	I.4.3
13158019	F.5.3		I.3.15	13181417	H.22.3		I.4.27
	H.18.5		I.4.3	13181441	H.22.3		I.4.29
13158324	A.1.3		I.4.7	13181466	H.15.3		I.4.31
13158548	F.4.3		I.4.19	13181474	H.4.3	13193024	H.4.3
	H.18.5	13173323	I.3.15	13182704	H.16.3	13193057	H.10.3
13159553	E.1.3		I.4.7	13183066	F.5.3	13193065	H.10.3
	E.1.5	13173331	H.29.5		H.18.5	13193073	H.10.3
13161849	C.1.3	13173406	H.18.3	13183074	F.5.3	13193081	H.10.3
13161856	C.1.3	13173802	H.3.3	13183967	F.5.3		H.10.5
13161872	F.10.3	13173869	G.1.5	13184080	F.5.3	13193099	H.10.5
13161898	H.31.3	13173877	G.1.5		H.18.5	13193107	H.10.3
13163274	H.9.3	13173885	G.1.5	13184460	I.3.7		H.10.5
13163324	G.1.3	13173893	G.1.5		I.3.15	13193156	H.13.3
	G.1.5	13174016	I.4.25	13184478	I.3.9	13193164	H.13.3
13163340	G.1.3	13174032	I.4.21	13187364	F.10.3	13193172	H.13.3
13166178	A.1.3	13174040	I.3.3	13187406	F.5.3	13193180	H.13.3
13166186	A.1.3		I.3.19	13190822	H.4.5	13193214	H.15.3
13166228	F.6.3		I.4.3	13190830	H.4.5	13193271	H.22.3
13166293	F.4.3		I.4.23	13190848	H.4.5	13193289	H.22.3
	F.4.5	13174057	I.3.3	13190863	H.10.3		H.27.3
13167028	F.2.3		I.3.15	13190897	H.10.5	13193297	H.22.3
13167150	F.9.3		I.4.3	13190905	H.10.3	13193305	H.22.3
	F.16.3		I.4.7		H.10.5	13193362	H.10.3
13168109	D.2.3	13174065	I.4.3	13190947	H.15.5		H.10.5

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
13195748	H.20.3	22067615	I.3.15		H.18.5	54710157	I.1.11
13195847	H.18.3		I.3.19	54516034	I.3.9		I.2.9
	H.18.5	22080170	I.4.27	54516836	E.2.3	54710223	I.1.7
13195862	F.10.3		I.4.29	54524418	C.3.3	54718226	I.3.13
13195912	C.4.3		I.4.31	54524434	C.3.3		I.4.5
13195920	C.4.3	22080188	I.4.27	54525811	F.4.3	54718291	I.3.17
13198833	F.15.3		I.4.31		H.18.5		I.4.9
13198841	F.15.3	22080196	I.4.27	54526140	F.1.3	54718366	I.4.25
13199302	H.23.3		I.4.31	54535646	H.2.3	54720800	I.4.17
13199351	G.2.3	22080204	I.4.27	54579933	I.3.11	58753104	C.7.3
13199377	H.18.3		I.4.31		I.4.13	58753112	C.7.3
13199393	F.10.3	22080212	I.4.31	54579941	I.3.13	58754433	C.7.3
13208780	F.2.3	22080220	I.4.29		I.4.5	58783242	A.1.3
13219670	D.2.3	22080238	I.4.31	54601299	A.1.3	58785957	C.5.3
	I.3.21	35304286	G.1.5	54607296	F.8.3	58793183	F.9.3
13220157	G.1.3	50264860	C.1.5	54611975	I.4.13		F.16.3
13220389	H.13.5		F.4.5	54612494	G.1.3	58793191	F.9.3
13220405	H.23.3	50266907	C.3.3		G.1.5		F.11.3
	H.28.3	50268127	B.1.3		G.2.3	58793209	F.9.3
13220447	H.15.3		F.1.3	54615711	C.1.3	58797499	C.7.3
13220470	H.15.3		F.4.5	54617014	C.1.3	58803958	I.2.5
13220835	I.3.9	50274299	C.5.3	54617162	H.5.3	58804444	I.1.9
13224662	I.4.31		C.5.5	54628128	F.3.3		I.2.7
13224803	C.4.3	50275395	F.17.3	54628326	I.4.25	58804451	I.1.9
13224902	D.2.3	50829654	A.1.3	54632781	I.1.5		I.2.7
	I.3.21	54441506	D.1.3	54638564	F.17.5	58827932	C.1.3
13224951	C.4.3	54467329	C.5.3	54638572	F.17.5		M.1.3
13224969	B.1.3		C.5.5	54638598	F.17.5		M.2.3
13224985	H.24.3	54473004	I.3.7	54638606	F.17.5	58835398	D.2.3
13226964	P.1.3		I.4.19	54680087	C.3.3		D.3.3
13226972	G.1.5	54473020	F.3.3	54680103	C.3.3		I.3.21
13232251	F.9.3	54477179	H.10.3	54687389	G.1.5		I.3.23
13236070	A.1.3		H.10.5	54687397	G.1.5	58837949	E.5.3
13243605	G.1.5	54478219	B.1.3	54705421	I.1.7		E.5.5
13243639	F.5.3	54479878	B.1.3	54705439	I.1.7	58849829	A.7.3
13252127	G.4.3	54484092	C.3.3	54705447	I.1.13	58851551	G.1.3
13252655	G.1.3	54493259	C.3.3		I.2.11		G.1.5
13252697	B.2.3	54496328	A.1.3	54705462	I.2.11	58858564	I.3.5
13252705	B.2.3	54502612	B.2.3	54705488	I.2.11	58877093	I.3.17
13252713	B.2.3	54502620	B.2.3	54705496	I.2.11	58878000	C.1.3
13252721	B.2.3	54502638	B.2.3	54705504	I.2.11	58886136	M.2.3
22067607	I.3.7	54503016	B.2.3	54705512	I.2.11	58887506	C.1.3
	I.3.15	54503644	F.6.3	54705520	I.2.11	58892902	D.2.3

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
	I.3.21		I.4.21		I.3.11	59132084	G.1.5
58916974	I.2.11	59072702	I.4.29	59113696	I.3.5	59132118	G.1.3
58917261	D.2.3	59079517	I.1.9	59113761	D.3.3		G.1.5
	I.3.21		I.2.7		I.3.23	59132134	G.1.3
58924333	D.2.3	59079822	I.1.9	59113829	C.1.3	59132142	G.1.3
	I.3.21		I.1.13	59113951	H.5.3		G.1.5
58933623	C.4.3		I.1.15	59114108	D.2.3	59132191	G.1.3
58951674	F.1.3		I.2.7		I.3.21	59132324	D.3.3
	F.4.5		I.2.11	59114116	D.2.3		I.3.23
	F.6.3		I.2.13		I.3.21	59133421	I.1.5
	F.9.3	59087361	G.1.3	59114124	E.5.3	59133439	I.1.5
	H.31.3	59087551	G.1.3	59114132	E.7.3	59134577	D.6.3
58961582	E.6.3	59087569	G.1.3	59114140	H.30.3	59135087	F.3.3
58962226	C.1.3	59096735	F.11.3	59114157	H.30.3	59135145	D.1.3
58962879	I.4.23		F.16.3	59114165	C.7.3	59135194	F.4.3
58965526	G.1.3		H.18.5	59114173	H.18.3		F.5.3
	H.31.3	59096743	F.11.3	59115089	F.3.3		F.6.3
58965583	G.1.3		F.16.3	59115105	C.5.3	59135681	H.14.3
	G.1.5		H.18.5	59115220	C.1.3	59136226	A.1.3
58965617	G.1.5	59096750	F.11.3	59115386	C.3.3		D.1.3
58974155	I.1.9		F.16.3	59115469	A.1.3	59136499	C.6.3
	I.2.7		H.18.5	59115584	C.5.3	59136531	C.6.3
59001842	C.5.3	59096768	F.11.3	59115717	C.2.3	59136804	F.4.3
59001891	F.2.3		F.16.3	59115725	C.2.3		F.5.3
59010173	F.9.3		H.18.5	59115873	F.5.3		F.6.3
	F.16.3	59100941	F.4.3	59116277	A.2.3	59136879	H.31.3
59023747	C.1.3		F.5.3	59116459	F.3.3	59136937	H.31.3
59025726	H.15.5		F.6.3	59116467	F.3.3	59137182	C.5.3
59031559	H.5.3	59100974	F.3.3	59116491	F.6.3	59137216	C.5.3
59044297	D.3.3	59101048	F.2.3	59116558	D.5.3		C.5.5
	I.3.23	59101170	F.2.3	59116640	F.5.3	59137315	D.2.3
59046904	D.3.3	59101451	C.1.3	59116657	F.5.3		I.3.21
	I.3.23	59101527	F.6.3	59116715	A.1.3	59137364	C.7.3
59046920	D.3.3	59101618	F.2.3	59124578	C.1.5	59137448	D.3.3
	I.3.23	59101758	F.10.3	59124677	M.2.3		I.3.23
59048926	G.1.3	59101774	F.10.3	59126946	D.2.3	59137471	C.7.3
59050740	E.6.3	59103598	C.5.5		I.3.21	59137554	G.1.7
59056036	H.3.3	59106435	C.1.3	59129171	C.5.3	59137570	C.5.3
59058156	D.3.3	59112011	E.2.3	59129528	A.5.3	59137703	A.1.3
	I.3.23	59113274	C.5.3	59129593	F.10.3	59137828	D.1.3
59072694	I.3.9	59113282	C.5.3	59131961	G.3.3	59137851	C.4.3
	I.4.15	59113456	C.5.3	59131979	G.3.3	59137968	H.5.3
	I.4.17	59113480	H.8.3	59131987	G.1.5	59138610	H.4.5

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
59138636	H.4.3	59146357	I.1.5	59148510	H.7.3	59153775	I.1.5
	H.4.5		I.2.5	59148569	D.2.3	59153783	I.1.7
59138925	A.8.3	59146365	I.1.5		G.1.7	59153825	I.1.5
59138933	A.8.3		I.2.5		I.3.21	59153916	I.1.5
59138941	C.5.3	59146381	I.1.7	59148684	D.2.3	59153924	I.1.5
59141291	I.3.11		I.2.5		I.3.21	59153999	I.1.7
	I.4.13	59146407	I.1.5	59148692	D.3.3	59154005	I.1.5
59141986	I.1.15	59146415	I.1.5		I.3.23	59154013	I.1.5
	I.2.13		I.2.5	59148825	H.4.5	59154039	I.1.15
59142661	I.4.31	59146423	I.1.5	59149039	C.7.3		I.2.13
59142851	I.4.25	59146449	I.1.9	59149088	E.5.3	59154070	I.1.15
59142893	I.3.11		I.2.7	59149138	E.6.3		I.2.13
	I.4.13	59146456	I.1.9	59149146	E.6.3	59154088	I.1.15
59144329	F.3.3		I.2.7	59149484	F.13.3		I.2.13
59144337	B.1.3	59146464	I.1.9	59153312	G.1.5	59154096	I.1.15
59144428	A.5.3		I.2.7	59153601	I.1.11		I.2.13
	A.7.3	59146480	I.1.9		I.2.9	59154120	I.1.5
59146233	I.1.3		I.2.7	59153619	I.1.11		I.2.5
	I.2.3	59146498	I.1.9		I.2.9	59154138	I.1.5
59146241	I.1.3		I.2.7	59153627	I.1.11		I.2.5
	I.1.9	59146514	I.1.9		I.2.9	59154146	I.1.5
	I.2.3		I.2.7	59153635	I.1.11		I.2.5
	I.2.5	59146548	I.1.9		I.2.9	59154153	I.1.5
	I.2.7		I.2.7	59153643	I.1.11		I.2.5
59146258	I.1.5	59146555	I.1.9		I.2.9	59154161	I.1.5
	I.2.5		I.2.7	59153650	I.1.11		I.2.5
59146274	I.1.5	59146571	I.1.9		I.2.9	59154179	I.1.5
	I.2.5		I.2.7	59153676	I.1.13		I.2.5
59146282	I.1.5	59146589	I.1.9		I.2.11	59154187	I.1.5
	I.2.5		I.2.7	59153684	I.1.13		I.2.5
59146290	I.1.5	59146605	I.1.9		I.2.11	59154195	I.1.5
	I.2.5		I.2.7	59153692	I.1.13		I.2.5
59146308	I.1.9	59146613	I.1.9	59153700	I.1.13	59154377	I.5.3
	I.2.5		I.2.7		I.2.11	59154419	I.5.3
	I.2.7	59146639	I.1.9	59153718	I.1.13	59154427	I.5.3
59146316	I.1.5		I.2.7		I.2.11	59154435	I.5.3
	I.2.5	59146654	I.1.9	59153726	I.1.13	59154443	I.5.3
59146324	I.1.5		I.2.7		I.2.11	59154484	I.6.3
	I.2.5	59146662	I.1.9	59153734	I.1.13	59154551	I.6.3
59146332	I.1.5		I.2.7		I.2.11	59154567	I.9.3
	I.2.5	59146670	I.1.9	59153742	I.1.13	59154575	I.9.3
59146340	I.1.5		I.2.7	59153759	I.1.13	59154583	I.9.3
	I.2.5	59147314	G.1.3		I.2.11	59154591	I.9.3

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
59154609	I.9.3	59166231	G.1.3		F.5.3	59194720	I.3.3
59154617	I.9.3	59166314	G.1.5		F.6.3		I.3.17
59154625	I.3.19	59167734	H.31.3	59182410	A.7.3		I.4.3
	I.4.23	59167759	H.31.3	59182428	A.5.3		I.4.9
59154641	I.4.7	59167932	H.31.3	59182485	A.1.3	59195685	I.5.3
	I.4.19	59167957	H.31.3	59185074	D.5.3	59195719	I.5.3
59154732	E.7.3	59168005	H.31.3	59186874	D.5.3		I.6.3
59154757	I.4.23	59168815	G.1.7	59187518	D.5.3	59195909	I.4.25
59154773	H.5.3	59168823	G.1.7	59187526	G.1.3	59195917	I.3.17
59154781	H.7.3	59169185	H.29.3		G.1.5		I.4.9
59154807	C.5.3	59169656	B.2.3	59187658	G.1.7	59195925	I.3.5
	C.5.5	59169938	F.7.3	59187799	A.2.3	59195990	I.3.17
59154823	I.6.3	59169946	F.7.3	59192606	I.7.3		I.4.9
59154885	I.5.3	59169953	F.7.3		I.8.3	59196006	I.4.11
59154955	I.4.31	59169961	F.7.3	59194100	I.2.5	59196410	I.3.17
59155598	I.4.31	59174235	E.5.5	59194118	I.2.5		I.4.9
59155747	I.4.3	59174557	H.4.3	59194126	I.2.5	59196436	D.7.3
	I.4.25	59174656	E.1.3	59194134	I.1.9	59197350	H.18.5
59156893	D.4.3		E.1.5		I.2.7	59198549	H.13.5
59156901	D.4.3	59175083	B.2.3	59194167	I.1.9	59199000	H.29.5
59157081	E.6.3	59175109	B.2.3		I.2.7	59199141	I.3.5
59157099	F.5.3	59175141	B.2.3	59194175	I.1.9	59199182	E.1.3
59157107	H.10.3	59175331	H.29.5		I.2.7		E.1.5
59157339	F.2.3	59176503	C.1.3	59194209	I.2.11	59199232	F.3.3
59157404	F.3.3	59179218	C.4.3	59194217	I.1.15	59199513	F.12.3
59157792	E.6.3	59179457	G.1.3		I.2.13	59199687	F.11.3
	H.29.5	59180281	A.1.3	59194225	I.1.15	59199695	F.11.3
59158196	E.6.3	59180307	A.7.3		I.2.13	59199828	E.4.5
59158204	E.6.3	59180695	H.14.3	59194241	I.1.5	59199935	B.2.3
59158345	B.2.3	59181024	D.5.3	59194324	E.7.3	59201509	P.1.3
59158386	B.2.3	59181172	B.2.3	59194498	I.3.3	59211672	F.11.3
59158410	H.17.3	59181222	B.2.3		I.3.11	59212118	B.1.3
59158857	D.6.3	59181248	F.10.3		I.4.3	59212399	H.31.3
59158865	D.6.3	59181479	A.4.3		I.4.13	59212571	D.5.3
59158899	H.17.3	59181537	I.3.19	59194506	I.3.11	59212696	H.17.3
59158931	D.2.3		I.4.23	59194514	I.3.9	59212746	A.1.3
	D.6.3	59181545	I.3.19		I.4.17	59221317	F.3.3
	I.3.21		I.4.23		I.4.21	59221721	F.1.3
59158956	D.6.3	59181685	A.5.3	59194522	I.4.15	59221770	F.1.3
59159558	I.3.5	59181776	F.1.3	59194548	I.3.9	59221838	H.28.3
59163758	B.2.3	59181875	E.2.3		I.4.15	59224261	H.6.3
59165001	D.3.3	59182097	B.2.3		I.4.17	59229500	B.2.3
	I.3.23	59182196	F.4.3		I.4.21	59235192	C.1.3

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
59242537	I.1.11	59270496	A.1.3	59311670	C.3.3	59455097	G.1.3
	I.2.9	59270520	C.5.3	59312801	C.3.3		G.1.5
59242552	I.1.9	59270587	C.3.3	59318204	C.5.3	59455154	B.1.3
	I.2.7	59271023	H.18.5	59325696	D.5.3		F.1.3
59242594	I.1.9	59272450	B.1.3	59325712	D.7.3		F.3.3
	I.2.7		F.1.3		E.4.5		F.9.3
59242834	I.1.9	59272583	F.15.3		H.18.3		F.17.3
	I.2.7	59272591	F.15.3		H.30.3		F.17.5
59243014	I.2.11	59276469	H.31.3	59327890	C.1.3		H.31.3
59243022	I.2.11	59276717	C.5.5	59327908	C.1.3	59455204	F.3.3
59243030	I.2.11	59281972	H.30.3	59327932	H.31.3	59455766	F.9.3
59243055	I.2.11	59282269	H.29.3	59331934	C.5.3	59456178	F.2.3
59243071	I.2.11		H.29.5	59352476	C.7.3	59456194	C.5.3
59243089	I.2.11	59282418	G.1.3	59352542	C.7.3	59456236	F.17.5
59243097	I.1.13	59283481	F.17.3	59363259	A.8.3	59456889	C.3.3
	I.2.11		F.17.5		C.5.3	59456962	F.2.3
59243105	I.2.11	59283598	F.17.3	59365130	E.1.3	59457374	F.1.3
59243121	I.1.7	59283606	F.17.5		E.1.5	59461152	F.14.3
	I.2.5	59285106	H.31.3	59378687	H.2.3	59461368	I.3.5
59243139	I.1.11	59285197	B.2.3	59392795	I.4.11	59462895	F.2.3
	I.2.9	59286047	F.6.3	59397489	D.2.3	59463406	F.15.3
59243147	I.1.11		H.18.5		I.3.21	59464610	D.4.3
	I.2.9	59286054	F.4.3	59398016	E.5.3	59465377	H.5.3
59246819	I.1.9		H.18.5	59398925	C.7.3	59465641	E.1.5
	I.2.7	59290676	D.1.3	59408526	H.2.3		H.1.3
59246835	I.1.9	59290692	D.1.3		H.23.3		H.5.3
	I.2.7	59291112	B.2.3		H.28.3	59472621	F.15.3
59246892	I.5.3	59291120	C.5.3	59408534	H.14.5	59475152	H.31.3
59250977	P.1.3	59291179	C.1.5	59413757	C.1.3	59477570	C.1.3
59251587	H.2.3	59291203	F.4.5	59426924	E.3.3		M.1.3
59251637	B.1.3	59291245	I.3.5	59434548	C.2.3		M.2.3
59251645	B.1.3	59293845	H.13.5	59436741	D.1.3	59482919	P.1.3
59251694	H.31.3	59295113	C.5.3	59436758	D.1.3	59483339	D.7.3
59264820	H.16.3		C.5.5	59436931	E.2.3	59491936	F.14.3
59264911	D.3.3	59295147	F.9.3	59450189	F.15.3	59493304	F.14.3
	I.3.23	59297804	F.8.3	59450734	D.5.3	59510065	F.9.3
59265827	E.2.3	59299123	E.2.3	59451641	F.4.5	59524447	B.2.3
59267989	A.1.3	59299339	F.9.3	59451815	F.9.3	59539569	C.1.3
59269134	F.4.3	59299388	F.9.3		F.16.3	59544213	C.1.3
59270322	A.2.3	59300129	F.17.3	59454215	F.9.3	59545616	I.4.31
59270330	A.1.3	59302554	C.1.3	59454769	G.1.5	59565028	C.5.3
59270363	A.1.3	59307652	H.2.3	59454801	F.3.3	59565036	F.3.3
59270488	A.2.3	59311621	C.3.3	59454991	F.10.3		F.6.3

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.
	H.18.5
59583450	E.1.3
	E.1.5
	F.17.5
	H.14.3
59583468	E.1.3
	E.1.5
59583484	H.14.5
59583500	H.11.3
	H.14.3
	H.18.3
	H.18.5
59583518	H.11.3
59590091	F.2.3
59607200	F.4.3
	H.18.5
59630798	F.17.5
59670554	E.5.3
59673137	H.1.3
59728170	C.1.3
	M.1.3
	M.2.3
59731380	C.4.3
59746248	H.14.3
	H.14.5
	H.18.3
	H.18.5
59769356	I.1.7
59769364	I.1.9
	I.1.15
	I.2.7
	I.2.13
59769653	I.1.7
	I.2.5
59769661	I.1.5
59769935	I.1.13
	I.2.11
59790824	I.1.11
	I.2.9
59790865	I.1.9
	I.2.7
59790923	I.1.5
59791004	I.1.9
	I.2.7
59793109	I.1.7
59793182	I.2.11
59793190	I.2.11
59793265	I.1.13
	I.2.11
59793430	I.2.11
59793521	I.1.3
	I.2.3
59793786	I.1.5
	I.2.5
59794115	I.1.3
	I.1.9
	I.2.3
	I.2.7
59794123	I.1.3
	I.1.9
	I.2.3
	I.2.7
59794149	I.1.5
	I.2.5
59803684	I.2.11
59813279	D.5.3
59816322	C.1.3
59854828	C.7.3
	E.5.3
59854877	C.7.3
	E.5.3
59854943	E.5.3
59866863	H.2.3
59866970	C.7.3
59887182	F.4.5
59889162	F.10.3
59896118	C.3.3
59903138	H.18.5
59918615	H.5.3
	H.7.3
	H.17.3
	H.20.3
59918649	H.5.3
	H.7.3
	H.9.3
59919670	H.7.3
	H.14.3
	H.29.5
59921031	H.6.3
	H.9.3
59921056	H.9.3
59922211	H.12.3
59922245	H.5.3
59922302	H.1.3
59922419	H.8.3
	H.20.3
	H.25.3
	H.28.3
	H.29.3
59922492	H.6.3
	H.29.3
59922500	H.18.3
	H.21.3
	H.26.3
59922542	H.11.3
	H.21.3
	H.23.3
	H.26.3
	H.28.3
	H.29.3
59922559	H.12.3
59922583	C.6.3
59922591	C.6.3
	H.12.3
59922641	H.12.3
59922658	H.3.3
59922682	H.3.3
59922690	H.1.3
59922807	H.2.3
	H.6.3
	H.7.3
	H.21.3
	H.23.3
	H.26.3
	H.28.3
	H.29.3
	H.29.5
59922823	H.8.3
	H.12.3
	H.21.3
59922864	H.14.5
	H.23.3
	H.28.3
	H.29.3
59922872	H.21.3
	H.26.3
59922880	H.14.3
59922898	H.11.3
	H.29.3
59922906	H.21.3
	H.26.3
59922930	H.2.3
59922971	C.5.3
	H.7.3
59922997	C.5.3
59923094	H.7.3
	H.12.3
59923490	H.12.3
59923797	H.14.5
59923805	H.29.3
59923813	H.3.3
59924027	H.12.3
59929026	F.17.5
	H.14.3
59929059	I.3.11
	I.4.13
59929182	H.7.3
	H.21.3
	H.23.3
	H.26.3
	H.28.3
	H.29.3
59947044	F.6.3
	H.14.5
	H.18.5
59947507	G.1.5
59962324	F.4.5
59962639	H.14.5

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
59985069	P.1.3		F.4.5	95972451	C.1.3		H.11.3
91300970	H.17.3	95919221	C.4.3	95977047	G.1.7		H.18.5
95038030	C.1.3	95919254	H.5.3	95985479	F.2.3		H.31.3
95064655	I.3.7	95919569	H.1.3	95987392	H.31.3	96702287	C.4.3
95067658	H.9.3	95919593	F.5.3	95988721	H.1.3		E.1.3
95201547	B.1.3	95920096	C.1.3	95992590	A.5.3		F.4.3
	F.1.3	95920419	H.1.3	95992608	B.1.3		H.16.3
	F.3.3	95920435	D.1.3		F.1.3		H.29.3
	H.31.3	95920492	E.1.3	95992616	F.1.3		H.31.3
95208971	F.1.3		E.1.5	96701370	C.1.3	96702311	B.1.3
	F.5.3	95920526	H.11.3		E.1.3		F.1.3
	H.31.3		H.18.3		E.2.3	96702329	H.31.3
95222964	F.8.3	95920617	H.5.3	96701461	F.10.3	96702386	I.4.31
95223301	F.5.3	95920815	B.1.3	96701479	A.1.3	96702394	I.3.5
	H.18.5		C.1.3		E.2.3		I.4.23
95223392	F.5.3	95921961	H.5.3		F.5.3	96702402	C.1.5
95231031	F.11.3	95922175	F.17.5	96701495	C.4.3		F.4.3
	F.16.3	95922225	C.4.3		H.31.3		H.18.5
95246088	F.3.3	95922258	A.4.3	96701545	C.4.3	96702410	C.1.3
95250692	C.5.3		A.6.3		F.1.3	96702436	H.19.3
95286266	C.5.3	95922290	C.1.3		F.9.3		H.24.3
95287629	H.17.3	95922324	C.5.3	96701552	H.31.3	96702444	F.3.3
95301867	C.1.7	95922365	H.1.3	96701560	B.1.3	96702519	H.5.3
	C.5.3		H.5.3	96701917	F.6.3	96702659	C.1.3
	F.6.3	95922373	D.5.3		F.9.3		C.5.5
	H.18.5		E.2.3		F.16.3		E.1.3
95302683	C.5.3	95922423	A.1.3		H.18.5		E.1.5
95325882	F.7.3	95922829	H.5.3	96701958	I.3.11		H.5.3
95356853	A.8.3	95922894	D.5.3		I.3.17		I.3.11
95365078	F.17.5	95923298	I.3.7		I.3.19		I.3.17
95365086	H.17.3		I.4.19		I.4.13		I.4.9
95373973	C.1.7	95923926	A.1.3		I.4.23		I.4.13
	E.1.3	95929782	I.4.31		I.4.25	96702774	F.5.3
	E.5.3	95931226	F.16.3	96701966	C.5.3	96702808	F.17.3
95405221	H.17.3	95931366	E.1.3		H.31.3		F.17.5
95489043	F.17.5	95931432	F.4.5	96702170	F.3.3	96702816	A.1.3
95660601	H.1.3	95931440	D.5.3	96702279	C.5.3		D.1.3
95671285	C.5.3		E.2.3		E.1.5	96702824	E.1.5
95713798	I.3.11	95943346	C.2.3		F.3.3		F.4.5
	I.3.17	95944468	F.2.3		F.4.3		H.14.3
	I.4.13	95972014	F.2.3		F.5.3	96702840	D.5.3
95860052	C.2.3	95972295	A.5.3		F.6.3	96702865	E.6.3
95919197	E.2.3		A.7.3		H.1.3		I.4.31

https://truckmanualshub.com/

NUMERICAL INDEX

COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.	COMM. NO.	PAGE NO.
96702873	D.2.3	96705041	D.5.3	96726328	F.5.3		H.19.3
	H.31.3	96705058	C.2.3	96728142	H.14.3		H.24.3
	I.3.21	96705090	B.1.3		H.18.5		I.3.11
96703111	A.4.3	96705132	C.1.3	96728233	F.10.3		I.3.17
	A.6.3		E.1.3	96728357	A.2.3		I.4.9
	F.1.3		E.6.3	96728431	H.29.3		I.4.13
	F.9.3	96705140	F.10.3		I.4.31		I.4.25
96703129	H.31.3	96705165	D.2.3	96728514	H.31.3	96741046	A.1.3
96703657	H.31.3		D.6.3	96728696	D.2.3		A.2.3
96703665	B.1.3		I.3.21		D.6.3		C.1.3
96703756	D.2.3	96705553	H.14.3		I.3.21		C.5.3
	D.6.3	96705587	D.5.3	96728712	A.2.3		E.2.3
	G.1.7		E.3.3	96728787	H.19.3		F.3.3
	I.3.21		F.10.3		H.24.3		F.4.3
96704176	D.6.3	96705678	B.1.3		H.29.3		F.6.3
	E.2.3	96705736	I.3.19	96733910	E.6.3		F.10.3
	E.6.3		I.4.23	96737499	E.6.3		H.1.3
96704218	C.5.3	96706809	I.4.23	96738547	G.1.7		H.11.3
	C.7.3	96708136	F.3.3	96738554	I.3.19		H.29.3
96704291	C.5.3	96711833	H.16.3		I.4.9		H.31.3
	I.4.25		H.19.3		I.4.23	96741053	D.6.3
96704416	A.2.3		H.24.3		I.4.29		E.6.3
96704531	D.6.3	96712153	C.3.3		I.4.31		H.19.3
	E.6.3	96712237	A.4.3	96738570	D.5.3		H.24.3
96704564	A.1.3		A.6.3	96738596	B.1.3		H.31.3
96704598	A.1.3		F.3.3		C.5.3		I.3.5
	F.10.3	96712674	H.29.3		F.10.3		I.3.11
96704606	C.1.5	96714399	E.1.3		F.17.3		I.3.17
	C.5.5		E.1.5		F.17.5		I.3.19
	E.2.3	96714688	C.1.3		H.31.3		I.4.13
	E.3.3	96714910	C.1.3	96738604	B.1.3		I.4.19
	F.10.3	96714985	F.3.3	96738646	A.3.3		I.4.23
	H.19.3	96715131	H.18.5		H.31.3		I.4.25
	H.24.3	96717525	D.5.3	96740980	I.3.5		I.4.31
96704614	F.6.3	96719190	E.2.3	96741020	E.1.3	96741137	F.10.3
	H.18.5	96719786	F.17.5	96741038	A.1.3	96743216	H.31.3
	H.19.3	96720008	A.3.3		C.1.3		
	H.24.3		H.31.3		C.5.5		
96704622	F.10.3	96720164	H.19.3		D.1.3		
96704739	H.16.3		H.24.3		E.1.5		
96704812	C.1.3	96721022	I.4.25		E.2.3		
	E.1.3	96721121	D.2.3		E.3.3		
	F.3.3		I.3.21		F.10.3		

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