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# **INGERSOLL-RAND**

# **14/18 BS 14/18 BV SERIES**

## **PARTS MANUAL**

### **Double Drum Vibratory Compactor**

**Effective S/N.**

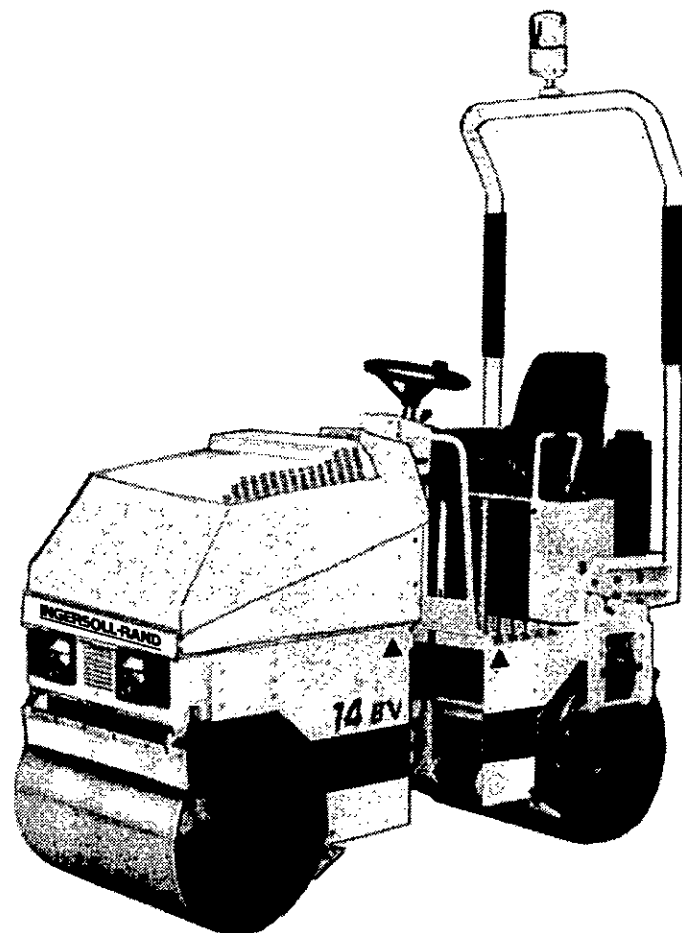
**14245, 14247, 14248  
14251 - 14254  
14255 upwards**

*MARSMEZ*

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*Thibault*



**Ingersoll-Rand Sales Company Limited**  
PO Box 2, Chorley New Road, Horwich  
Bolton BL6 6JN  
United Kingdom

**14/18 BS/BV ENGLISH COMM.NO. 10574291**

**Revised (01-13)**

**INGERSOLL-RAND**

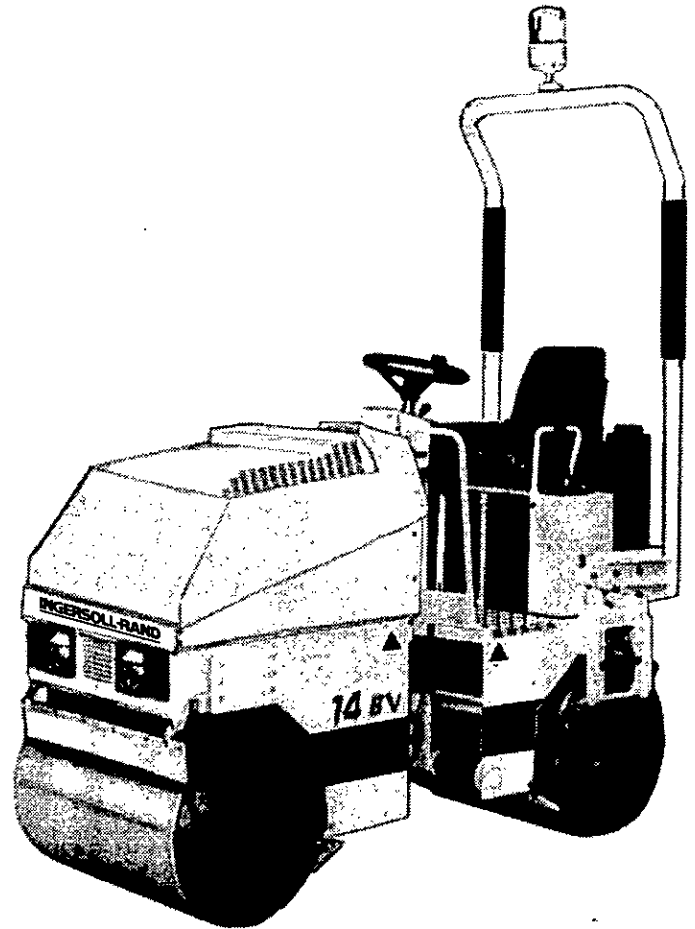
# 14/18 BS 14/18 BV SERIES

## PARTS MANUAL

### Double Drum Vibratory Compactor

Effective S/N.

14245, 14247, 14248  
14251 - 14254  
14255 upwards



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**INSTRUCTIONS**

1. Insert latest changed pages. Destroy superseded pages.
2. The portion of text affected by changes is indicated by a vertical line in the outer margins of the page.
3. Changes to illustrations are indicated by a vertical bar in the outer column of the page, across from the area in which the change occurs.

**REVISION LOG****14 BS/BV / 18 BS/BV SERIES  
PARTS MANUAL****COMMUNICATION NO.10574291**

REVISION LEVEL	COMM. NO.	DATE
0 (Original Issue)	10574291	09-30-96

REVISION LEVEL	COMM. NO.	DATE
<p><i>NOTE:</i> <i>Revised and Reissued pages do not have the revision levels indicated on the page(s).</i></p>		

PAGE NO.	REVISION LEVEL
A-G	0
A.1-K.1	0

REVISION LEVEL
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### FUEL SYSTEM

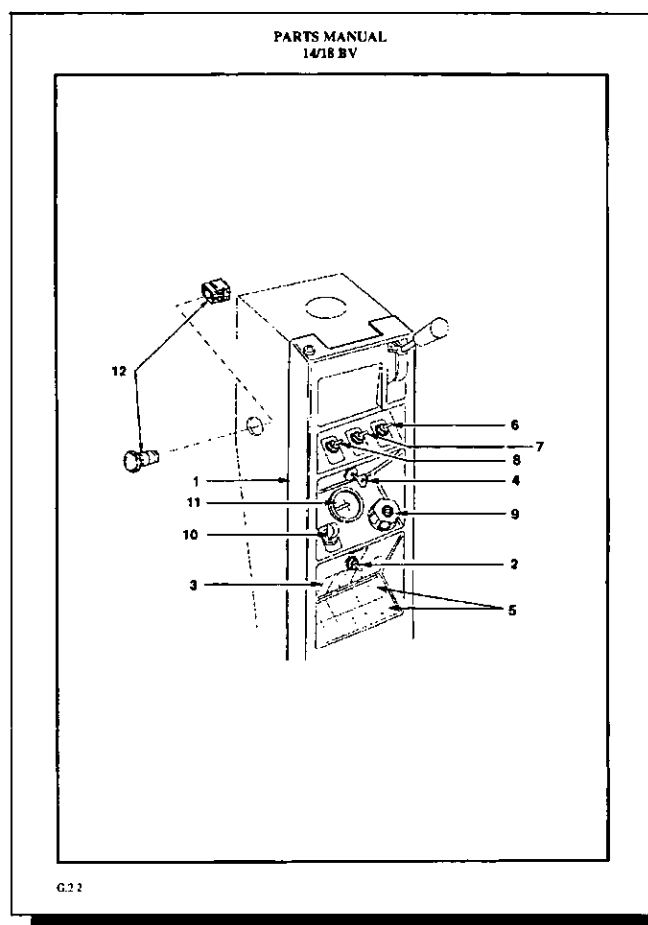
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## HOW TO USE THIS PARTS MANUAL



PARTS MANUAL  
14/18 BV  
INSTRUMENT PANEL INSTALLATION

Item	CPN	Description	Qty.	Spec.
1	10573228	Instrument Panel	1	
2	93454122	Switch, Drum Offset	1	
3	10572584	Fuse Box	1	
4	93454130	Key, Start Switch	1	
5	10573392	Panel, Indicator Lights	1	
6	10573244	Switch, Water Spray	1	
7	88095161	Switch, Hazard Warning	1	
8	10573343	Switch, Beacon	1	
9	10574028	Switch, Lights/Brake	1	
10	10574026	Switch, Direction Indicator	1	
11	93454148	Hourmeter	1	
12	88107503	Emergency Stop	1	

G.2.3

### PAGE NUMBERING SYSTEM

- A.** Identifies the functional group of an individual parts list, such as Engine.
- 1.** Identifies the sequence of a parts list within the functional group such as Propulsion Pump Assembly.
- 1** Identifies the page number within the individual parts list.

### WHEN THE CPN (COMM. NUMBER) IS NOT KNOWN

1. Determine the junction and application of the part required.
2. Turn to the table of contents and select the most appropriate area of the compactor and turn to that page.
3. From the illustration, obtain the item number assigned to the desired part.
4. Refer to the accompanying parts list for specific information about the part.
5. Record the CPN and description, then prepare your order.

### WHEN THE CPN (COMM. NUMBER) IS KNOWN

1. Turn to the CPN numerical index located at the rear of this manual. Find the desired CPN and turn to the page number indicated.
2. Refer to the parts list for specific information about the part and the illustration for a visual description and application.

### WHEN THERE IS NO ITEM NUMBER

1. A single hyphen (-) is used for any component that has a shared item number. The component may or may not have a CPN (comm. no.).
2. A double asterisk (\*) is used for any component that does not have an item number assigned.

## STANDARD ABBREVIATIONS

Adj.	Adjustable	mm	millimeter
AMP	Amperes	M.S.	Machine Screw
A/R	As Required	R.H.M.S.	Machine Screw Round Head
ARC	Authorized Rebuilt Component	N.A.	Not Available
BSP	British Standard Pipe	No.	Number
BTU	British Thermal Unit	NPT	National Pipe Thread
C/L	Centerline	NPTF	National Pipe Thread Fine
COMM. NO.	Communication Number	N.S.S.	Not Sold Separately
C.S.F.S.H.	Countersunk Flat Socket Head	N.SV.A.	Not Serviceable as an Assembly
CCW	Counterclockwise	O.D.	Outside Diameter
CW	Clockwise	ORB	O-Ring Boss
DDA	Detroit Diesel Allison	ORS	O-Ring Seal
Dia.	Diameter	PGE	Page
Eff.	Effective	PRESS.	Pressure
EXT	External	PSI	Pounds/Square Inch
Fem	Female	Pt.	Point
F.H.C.S.	Flat Head Cap Screw	Qty.	Quantity
FIL	Fillister	Rad.	Radiator
Fil. Hd.	Fillister Head	R.H.	Right Hand
FLR	Flare	ROPS	Roll-Over Protection System
FOPS	Falling Object Protection System	Rot.	Rotary
ft.	Feet	RPM	Revolutions Per Minute
Ftg.	Fitting	SAE	Society of Automotive Engineers
Ga.	Gauge	S.F.H.	Slotted Fillister Head
GPH	Gallons Per Hour	S.F.H.M.S.	Slotted Fillister Head Machine Screw
Hd.	Head	S.H.C.S.	Socket Head Cap Screw
H.H.	Hex Head	S.M.V.	Slow Moving Vehicle
H.H.C.S.	Hex Head Cap Screw	S/N	Serial Number
H.H.M.S.	Hex Head Machine Screw	S.T.	Self-Tapping
H.H.S.	Hex Head Screw	Std.	Standard
H.S.B.H.S.	Hex Socket Button Head Screw	Str.	Straight
H.S.H.C.S.	Hex Socket Head Cap Screw	SW	Swivel
Hyd.	Hydraulic	Tach.	Tachometer
I.D.	Inside Diameter	Temp.	Temperature
Ign.	Ignition	Thd.	Thread
INST	Instrument	Thk.	Thick
INT. BRKD.	Internal Breakdown	UNC	Unified Coarse
I-R	Ingersoll-Rand	UNF	Unified Fine
JIC	Joint Industry Conference	Univ.	Universal
lg.	Long	Var.	Variable
L.H.	Left Hand	V	Volt
M	Metric	VPM	Vibrations Per Minute
Mfg.	Manufacturing	w/	With
		w/o	Without

Revised 4/25/94

## 14/18 BV series MAINTENANCE ITEMS AND RECOMMENDED SPARE PARTS

*NOTE: These recommended spare parts reflect current models. The most current serial numbered machine specifically noted in the book are 14 BV S/N. 14329 and 18 BV S/N. 18209*

### MAINTENANCE ITEMS

*Spare parts required for one (1) 250 hour maintenance interval:*

9 UNIT	9-9 UNIT	99+ UNIT	DESCRIPTION	COMM. NO.	PAGE
<b>ENGINE ASSEMBLY</b>					
1			-Oil Filter		C.1.3
1			-Fuel Filter	93462174	C.1.3
			Air Cleaner Assembly		
1			-Primary Element	93453918	C.2.3

### RECOMMENDED SPARES

*Spare parts recommended to support the number of units in the column for:*

*1 year or 1000 hours*

9 UNIT	9-9 UNIT	99+ UNIT	DESCRIPTION	COMM. NO.	PAGE
<b>ENGINE ASSEMBLY</b>					
	10	10	Fuel Filter	93462174	C.1.3
	10	10	Oil Filter		C.1.3
0	1	2	Solenoid, Shutdown	93453967	G.1.3
1	1	1	Starter		C.1
1	1	1	Alternator		C.1
	10	10	Pre-fuel Filter		C.1
0	1	1	Engine Fan		C.1
2	5	5	Fan Belt		C.1
1	1	2	Battery Cable - Negative		C.12
1	1	2	Battery Cable - Positive		C.12
<b>AIR CLEANER ASSEMBLY</b>					
	10	10	Primary Element	93453918	C.2.3



# 14/18 BV series MAINTENANCE ITEMS AND RECOMMENDED SPARE PARTS

9 UNIT	9-9 UNIT	99+ UNIT	DESCRIPTION	COMM. NO.	PAGE
<b>CONSOLE ASSEMBLY</b>					
1	2	4	Propulsion Control Cable	93454155	C.3.3
1	2	4	Engine Speed Control Cable	93454163	E.2.3
1	2	4	Cold Start Cable	10574317	E.2.3
1	2	2	Ignition Switch		
2	4	4	-Key	93454130	G.2.3
1	2	2	Hourmeter	93454148	G.2.3
	1	2	Panel, Indicator Lights	10573392	G.2.3
1	2	3	Emergency Stop Switch	88107503	G.2.3
<b>DRUM ASSEMBLY</b>					
0	1	1	Eccentric Drive Motor (S/N 14251 thru 14254 only)	93454015	D.6.3
0	1	1	Eccentric Drive Motor (S/N 14245,14247,14248 only)	10574200	D.6.3
0	1	1	Eccentric Drive Motor (Eff. S/N 14255 upwards)	93454485	D.6.3
0	1	1	Drum Drive Motor Prior S/N. 14328 & 18209	93453769	B.1.3
0	1	1	Drum Drive Motor Eff. S/N. 14328 & 18209	10574226	B.1.3
16	16	32	Shock Mounting Pad	93453751	B.1.3
1	2	3	-O-Ring	96702923	B.1.3
1	2	3	-Bearing	93453702	B.1.3
1	2	3	-Bearing	93453710	B.1.3
1	2	3	-Coupling	93453736	B.1.3
0	0	1	-Eccentric Shaft	93453728	B.1.3
1	1	2	-Key	93453744	B.1.3
1	1	3	-Oil Seal	93453686	B.1.3
1	1	3	-Oil Seal	93453694	B.1.3
1	1	3	-Circlip	10572253	B.1.3
1	1	3	-Circlip	10572261	B.1.3
<b>HYDRAULIC CYLINDERS</b>					
0	1	1	Steering Cylinder	10573954	D.2.3
1	2	3	-Seal Kit	93453793	D.2.3
0	1	1	Drum Offset Cylinder	10573947	D.3.3
1	2	3	-Seal Kit	93453801	D.3.3
<b>HYDRAULIC PUMPS</b>					
1	2	2	Vibration / Steering Pump	93453850	C.1.3
1	2	3	Propulsion Pump	93453843	C.1.3
1	2	4	- Filter, Propulsion Pump	93453835	C.1.3

## **PARTS MANUAL**

# **14/18 BS Series 14/18 BV Series DOUBLE DRUM VIBRATORY COMPACTOR**

### **Effective S/N.**

**14245,14247, 14248**

**14251 -> 14254**

**14255 upwards**

### **WHEN ORDERING REPLACEMENT PARTS**

**Find the appropriate parts from those listed among the illustration views and furnish with the parts order :**

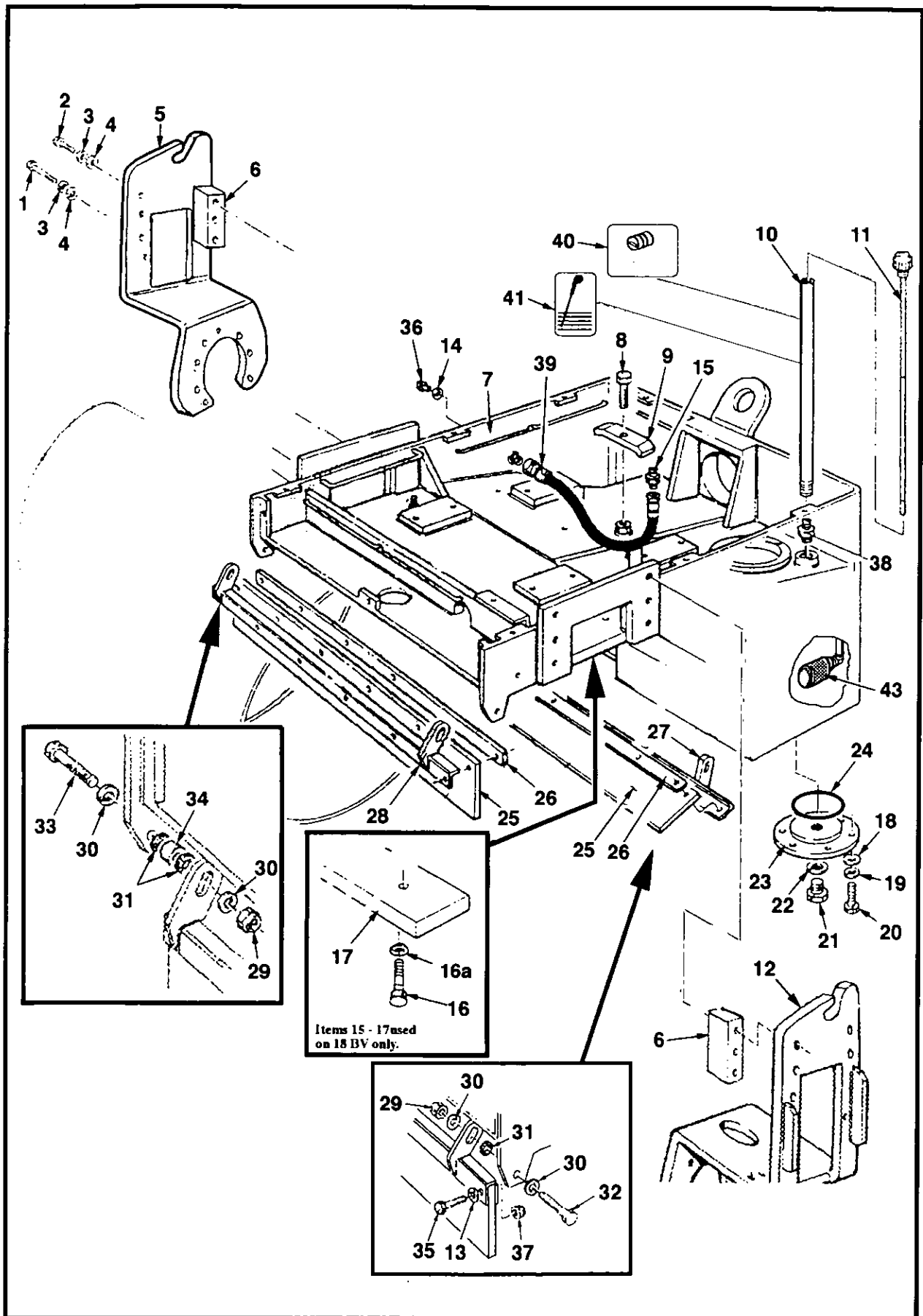
**Model, Serial Number, Part Number, Part Name and the required quantity.**

**The number given in the Req'd.No. column indicates the quantity of parts used for one unit.**

#### *Note:*

*The parts listed in the parts book are subject to change without notice.*

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



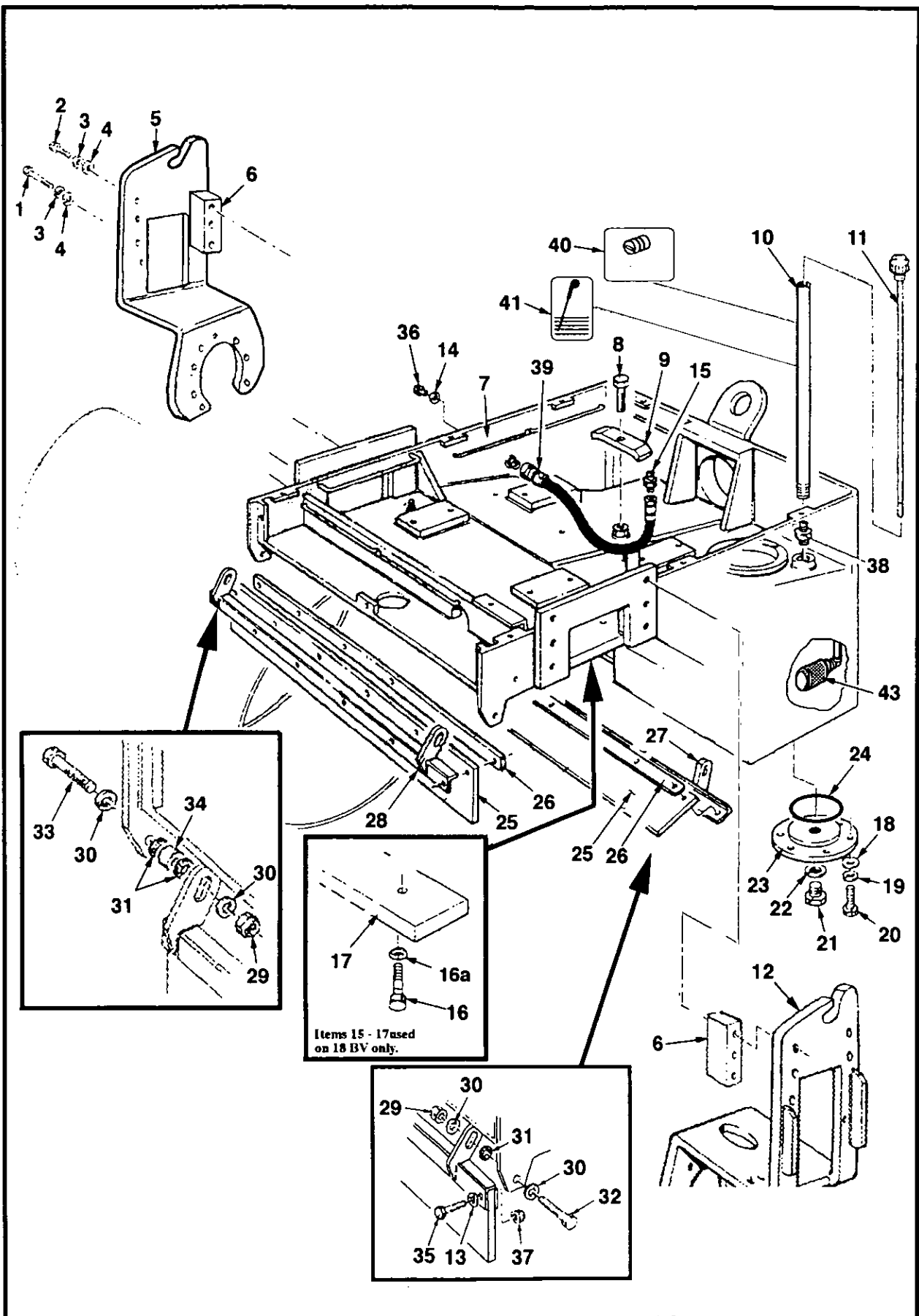
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**FRONT FRAME ASSEMBLY**

TAV.1.1

Item	CPN.	Description	Qty.	Spec.
1	96727508	Screw (18 BV)	4	
1	10576437	Screw (14 BV)	8	
2	96727490	Screw (18 BV)	4	
2	96727482	Screw (14 BV)	4	
3	10574655	Lockwasher	12	
4	10573830	Spacer	12	
5	10572428	Front Drum Support, RH (18 BV) - <i>Vibration Side</i>	1	
5	10572444	Front Drum Support, RH (14 BV) - <i>Vibration Side</i>	1	
5	10573977	Front Drum Support, RH (18 BS) - Propulsion Side		Sai
5	10575496	Front Drum Support, RH (14 BS) - Propulsion Side		Sai
5	10575488	Front Drum Support, RH (18 BS) - Propulsion Side		Brevini
5	10575504	Front Drum Support, RH (14 BS) - Propulsion Side		Brevini
6	10573897	Spacer (18 BV)	4	
6	10573913	Spacer (14 BV)	4	
7	10573236	MAIN FRAME,FRONT	1	
8	92472927	Screw	1	
9	10576452	Clamp		
10	10573467	PIPE, EXTENSION	1	
11	10572386	Dipstick	1	
12	10572410	Front Drum Support, LH (18 BV) - <i>Propulsion Side</i>	1	Sai
12	10572436	Front Drum Support, LH (14 BV) - <i>Propulsion Side</i>	1	Sai
12	10574283	Front Drum Support, LH (18 BV) Eff. S/N. 18209	1	Brevini
12	10574275	Front Drum Support, LH (14 BV) Eff. S/N. 14329	1	Brevini
13	10574556	Washer	12	
14	10573681	Seal	1	
15	10574887	Adapter	1	
16	92280981	Screw	4	
16a	10574598	Washer	4	
17	10572345	Counterweight	1	
18	10574556	Washer	6	
19	10574630	Lockwasher	6	
20	92304344	Screw	6	
21	10573517	Plug	1	
22	10573665	Seal	1	
23	10572360	Cover Plate	1	
24	10573632	Seal	1	
25	10574143	WIPER (18 BV)	2	
25	93453975	WIPER (14 BV)	2	
26	10573996	Strap	1	
27	10573574	Scraper Bar (18 BV)	1	
27	10573582	Scraper Bar (14 BV)	1	
28	10573608	Scraper Bar (14 BV)	1	
29	10574473	Nut	4	
30	93463131	Washer	8	
31	10574606	Washer	5	
32	92329309	Screw	2	
33	92329309	Screw (18 BV)	2	
33	39139266	Screw (14 BV)	2	
34	10573921	Spacer	2	
35	92304351	Screw	12	
36	10573483	Plug	1	
37	10574465	Nut	12	
38	10574804	Adapter	1	
39	10572709	Hose Assembly	1	

A.1.3

# **PARTS MANUAL** **14BS/BV & 18 BS/BV Series**

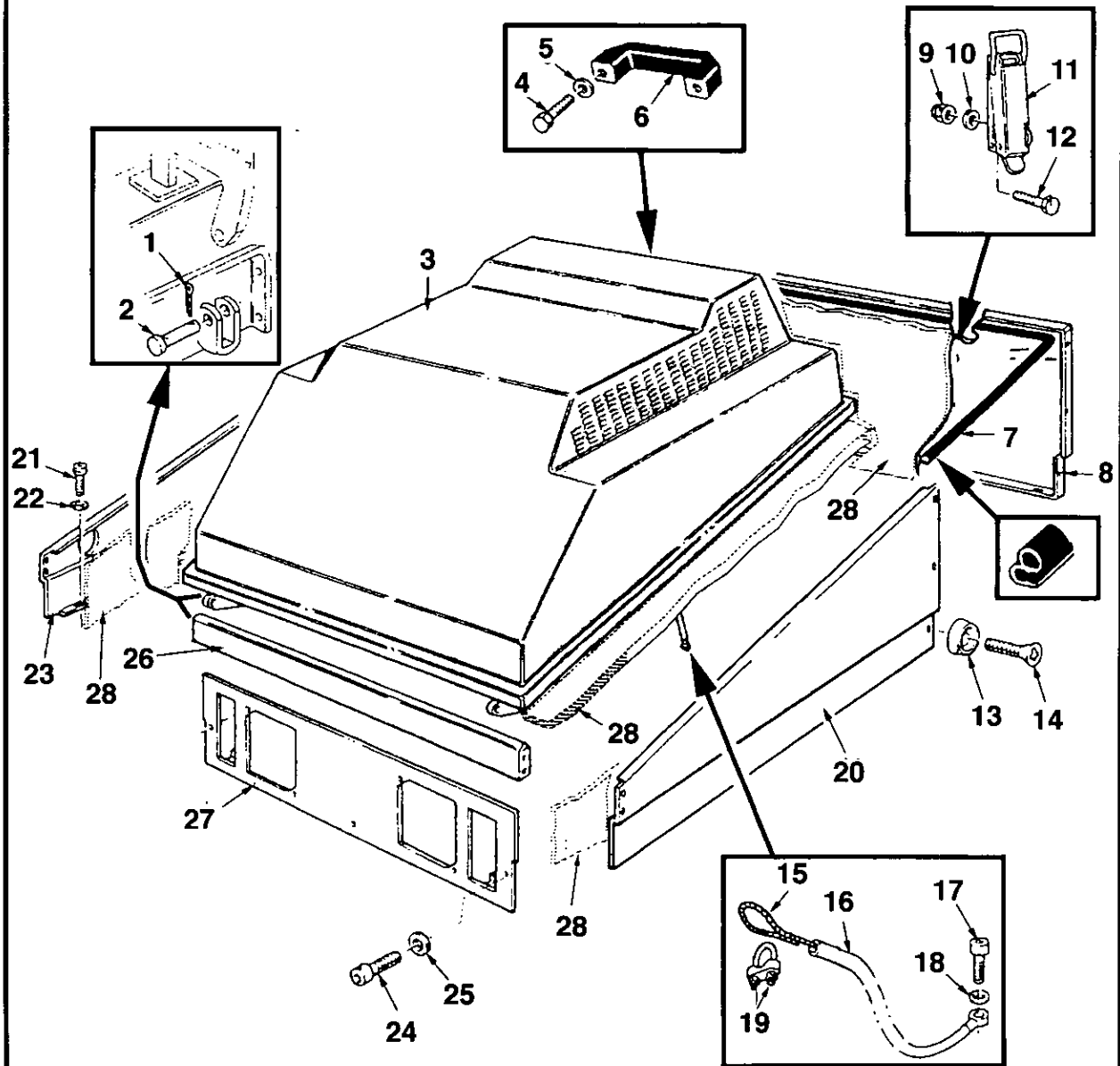


# PARTS MANUAL

## 14 BS/BV & 18 BS/BV Series

Item	CPN.	Description	Qty.	Spec.
40	58978222	DECAL	1	
41	10575181	DECAL	1	
43	10574267	Suction Strainer (Eff. S/N. 14328, 18204)		

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



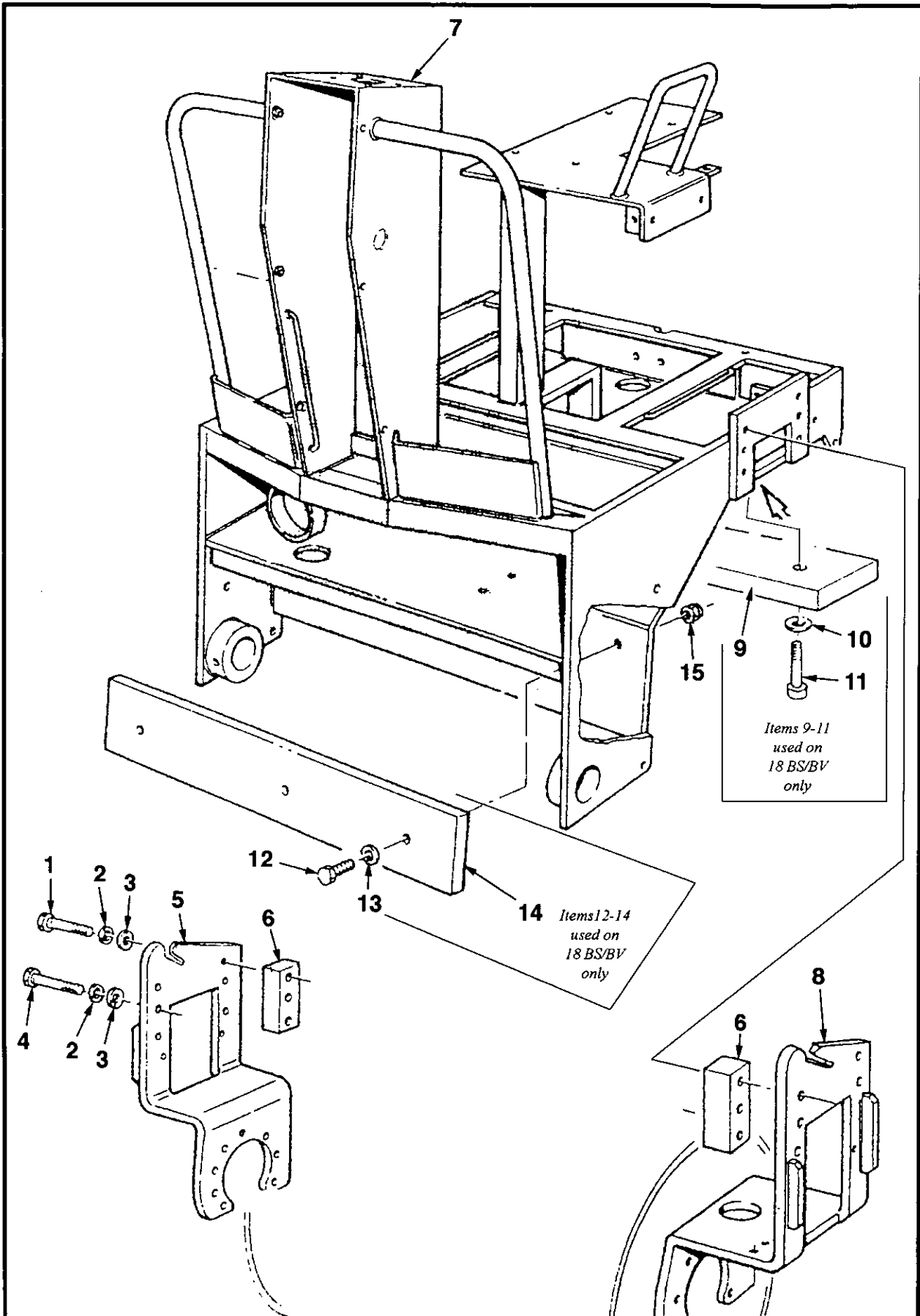
**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**  
**ENGINE CANOPY ASSEMBLY**

TAV. 2.1

Item	CPN.	Description	Qty.	Spec.
1	10572311	Cotter Pin	2	
2	10573400	Pin	2	
3	10572212	Canopy	1	
4	92304336	Screw	2	
5	10574556	Washer	2	
6	10572634	Handle	1	
7	10573715	Seal	1	
8	10572238	Canopy	1	
9	10574440	Nut	2	
10	10574531	Washer	4	
11	10573194	Lock	1	
12	96715271	Screw	2	
13	10574564	Washer	10	
14	10574333	Screw	10	
15	10572204	Cable	1	
16	10573749	Sheath	1	
17	92463231	Screw	1	
18	10574549	Washer	1	
19	10572287	Clamp	1	
20	10573798	Side Panel SX	1	
21	92463231	Screw	9	
22	10574549	Washer	9	
23	10573780	Side Panel DX	1	
24	92463231	Screw	7	
25	10574549	Washer	7	
26	10572220	Canopy	1	
27	10572618	Grille	1	
28	10574002	Striker Plate	1	



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

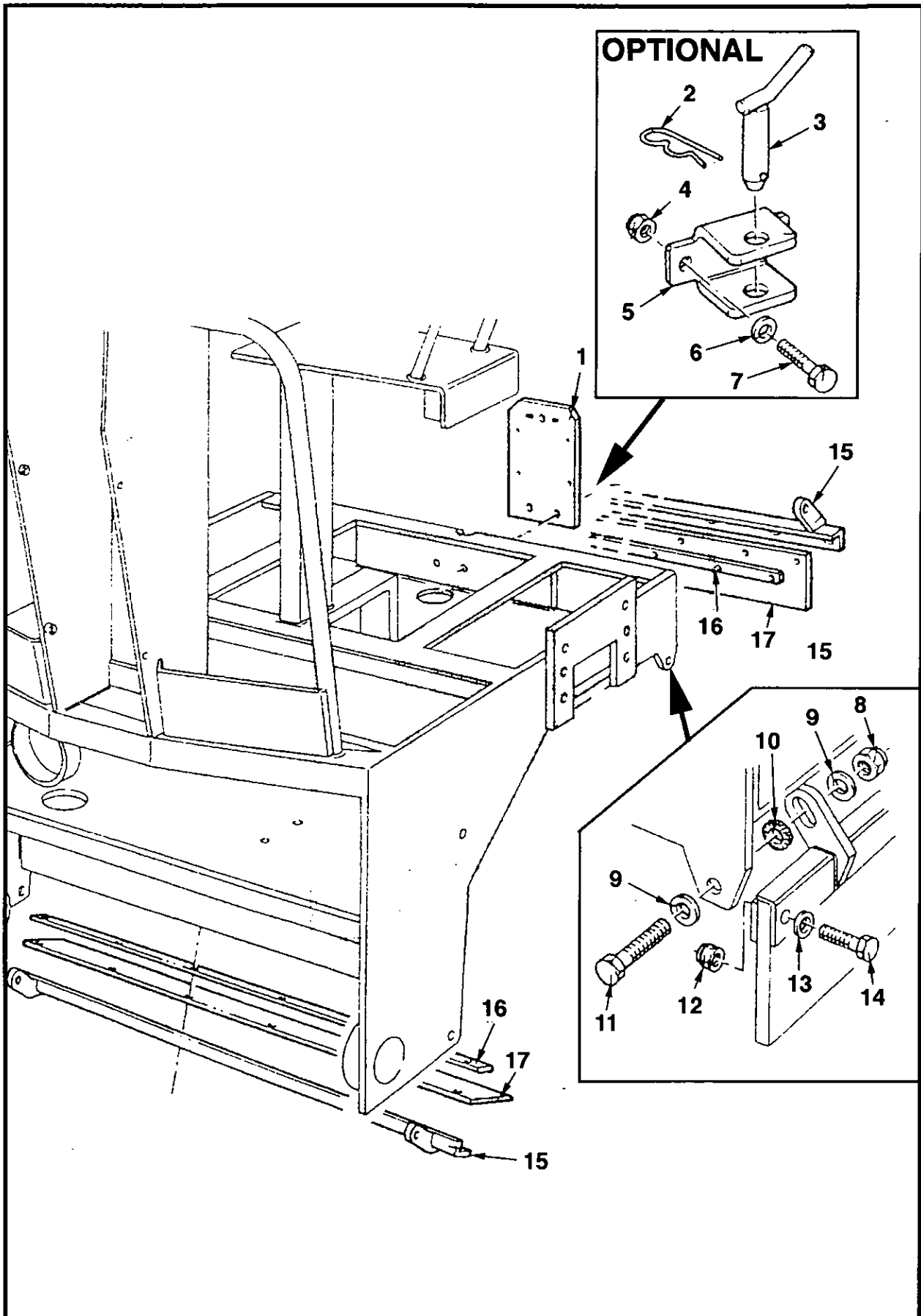


**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**REAR FRAME ASSEMBLY - PART 1**

TAV. 3.1

Item	CPN.	Description	Qty.	Spec.
1	96727490	Screw (18 BS/BV)	4	
1	96727482	Screw (14 BS/BV)	4	
2	10574655	Lockwasher	12	
3	92329341	Washer	12	
4	96727508	Screw	8	
4	10576437	Screw	8	
5	10572410	Rear Drum Support, RH (18 BS/BV)	1	SAI
5	10572436	Rear Drum Support, RH (14 BS/BV)	1	SAI
5	10574283	Rear Drum Support, RH (18 BS/BV)	1	BREVINI
5	10574275	Rear Drum Support, RH (14 BS/BV)	1	BREVINI
6	10573897	Spacer (18 BV)	4	
6	10573913	Spacer (14 BV)	4	
7	10574093	Main Frame, Rear	1	
8	10572428	Rear Drum Support, LH (18 BS/BV)	1	
8	10572444	Rear Drum Support, LH (14 BS/BV)	1	
9	10572345	Counterweight - (18 BS/BV)	1	
10	10574598	Washer	4	
11	92280981	Screw	4	
12	35278977	Screw	2	
13	92329341	Washer	2	
14	10572352	Counterweight - (18 BS/BV)	1	
15	10574481	Nut	2	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

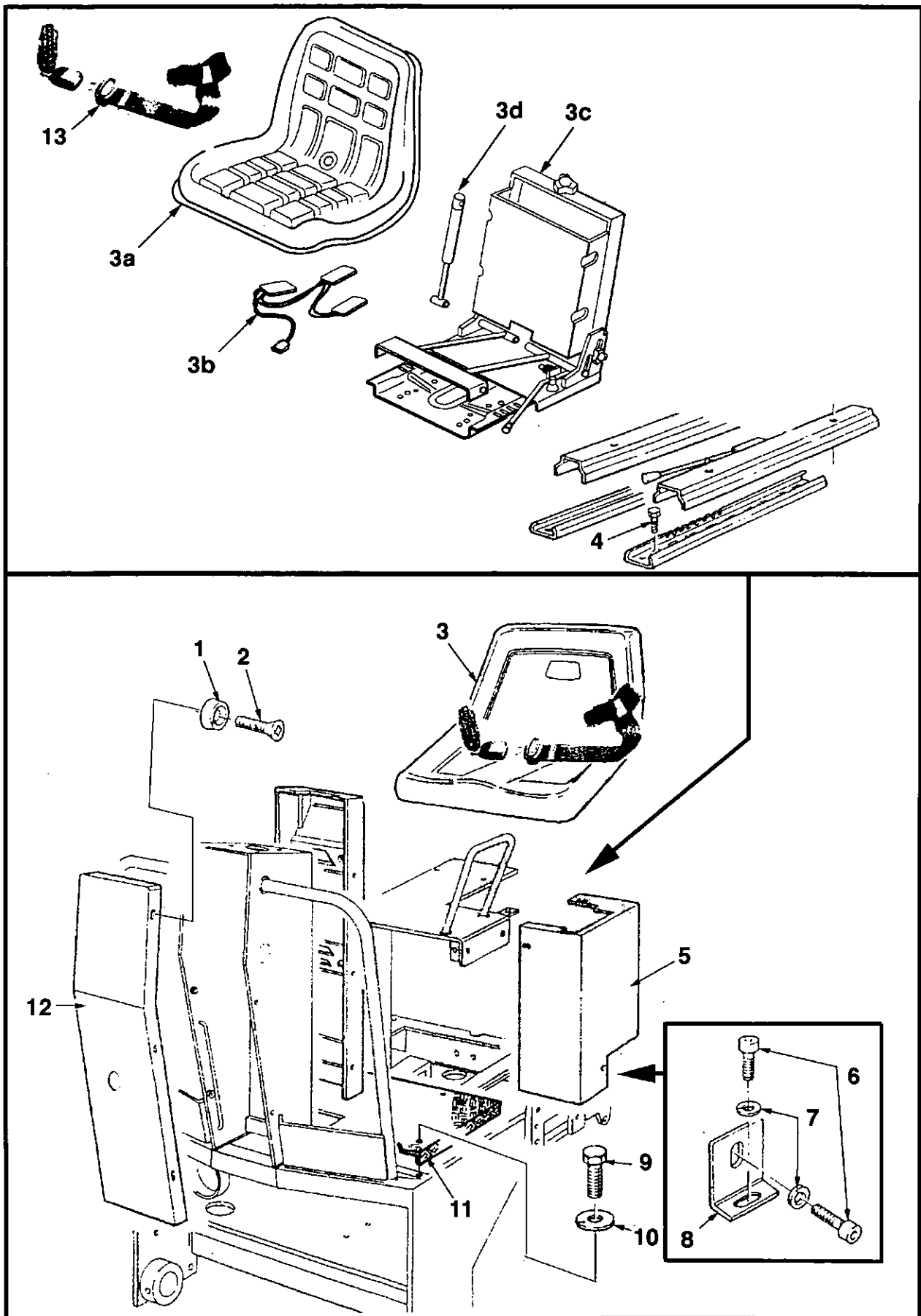


**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**  
**REAR FRAME ASSEMBLY - PART 2**

TAV. 3.1.1

Item	CPN.	Description	Qty.	Spec.
1	10573350	Mounting Plate	1	
2	10572337	Cotter Pin	1	
3	10573442	Pin	1	
4	10574473	Nut	2	
5	10574077	Tow Hitch	1	
6	92280981	Screw	2	
7	93463131	Washer	2	
8	10574473	Nut	4	
9	93463131	Washer	8	
10	10574606	Washer	4	
11	92329309	Screw	4	
12	10574465	Nut	12	
13	10574556	Washer	12	
14	92304351	Screw	12	
15	10573590	Scraper Bar	2	
16	10573996	Strap	2	
17	10574143	WIPER (18 BS/BV)	2	
17	93453975	WIPER (14 BS/BV)	2	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

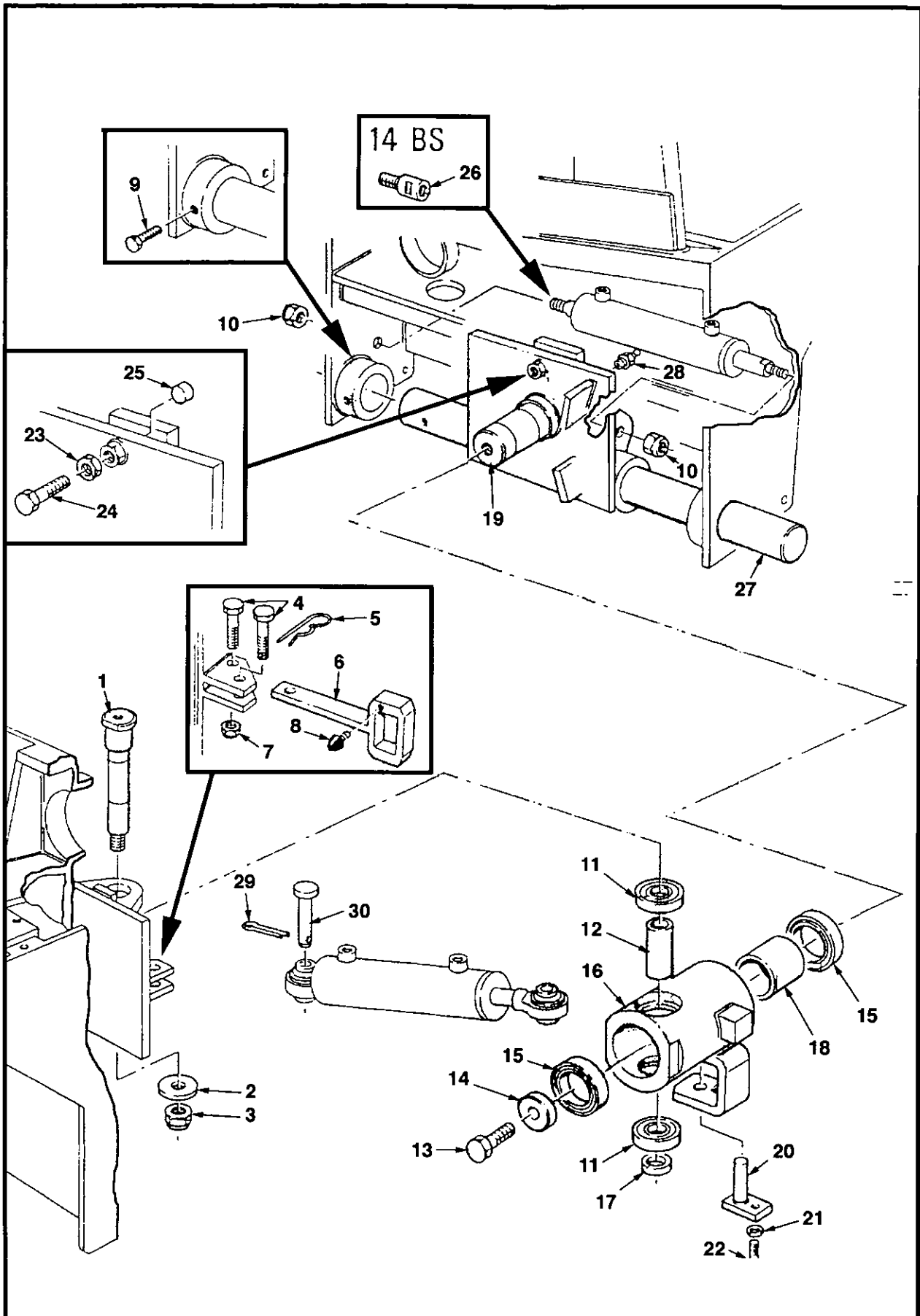


**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**COVERS & SEAT INSTALLATION**

TAV. 4.1

Item	CPN.	Description	Qty.	Spec.
1	10574564	Washer	17	
2	10574325	Screw	17	
3	93454189	Seat Assembly <i>(includes items 3a,3b,3c,3d)</i>	1	
3a	10575041	- Seat <i>(includes item 3b)</i>	1	
3b	10575058	- Seat Switch	1	
3c	10575066	- Seat Suspension <i>(includes item 3d)</i>	1	
3d	10575074	- Gas Cylinder	1	
4	96727524	Screw	4	
5	10572246	Casing	1	
6	92340405	Screw	2	
7	10574549	Washer	2	
8	10572154	Bracket	1	
9	92304344	Screw	6	
10	10574580	Washer	6	
11	10572568	Footplate	1	
12	10574069	Cover, Console rear	1	
13	10573731	Seat Belt	1	

# PARTS MANUAL 14BS/BV & 18 BS/BV Series



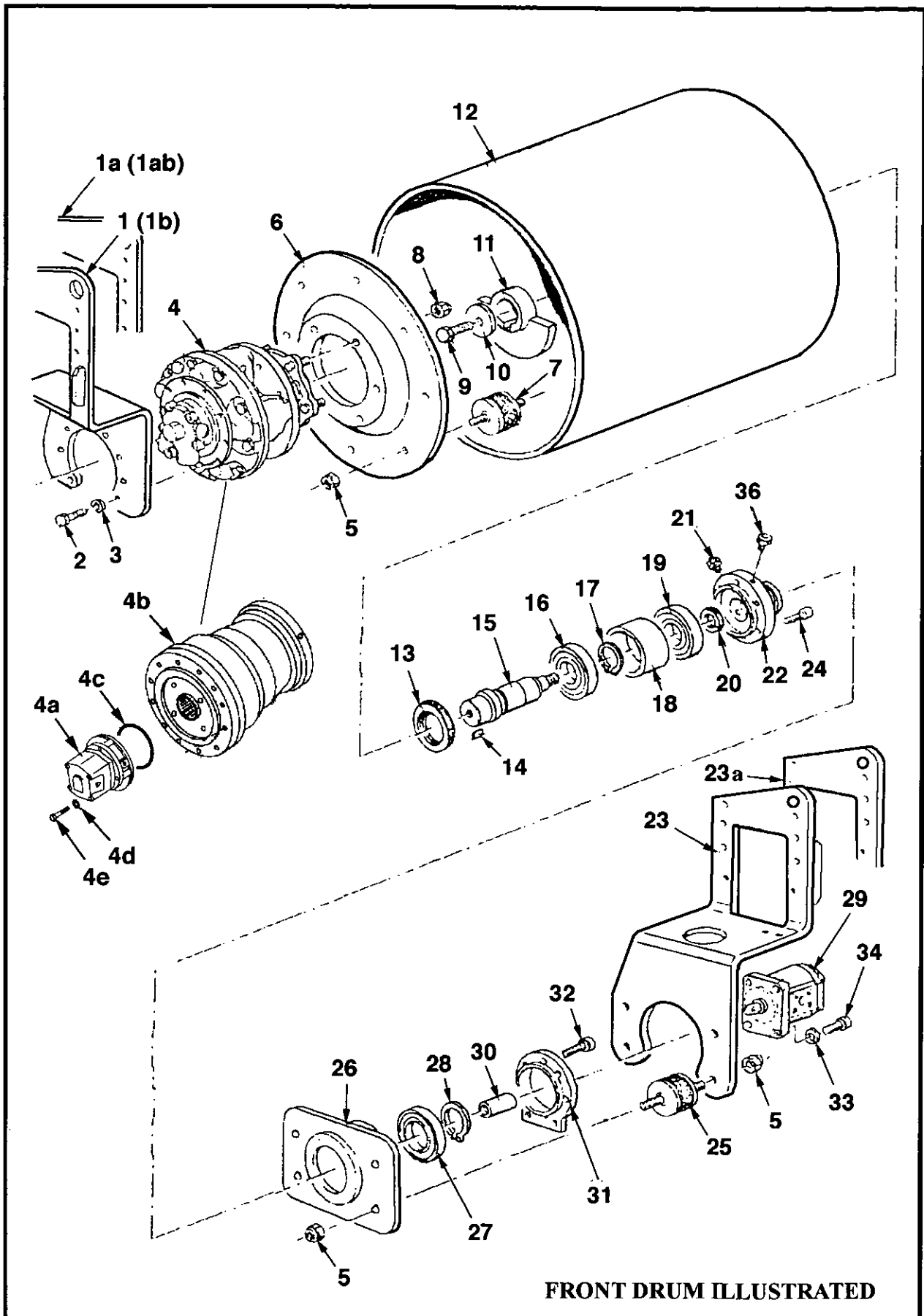
**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**  
**SWIVEL JOINT ASSEMBLY**

TAV. 5.1

Item	CPN.	Description	Qty.	Spec.
1	10573418	Pin	1	
2	10574978	Washer	1	
3	10574515	Nut	1	
4	10574960	Screw	2	
5	10572337	Cotter Pin	1	
6	10572147	Bracket	1	
7	10574499	Nut	1	
8	10572188	Buffer	1	
9	92963370	Screw	1	
10	10574507	Nut	2	
11	10572121	Bearing	2	
12	10573863	Spacer	1	
13	96706395	Screw	1	
14	10574606	Washer	1	
15	10572113	Bearing	2	
16	10574051	Bushing	1	
17	10573855	Spacer	1	
18	10573871	Spacer	1	
19	10573376	Oscillation Swivel W/A.	1	
20	10573434	Pin	1	
21	10574556	Washer	1	
22	92304344	Screw	1	
23	39121355	Screw	1	
24	10574416	Nut	1	
25	10573384	Pad	1	
26	10573756	Shim	1	
27	10573541	Rod	1	
28	10572592	Grease Fitting	1	
29	10572329	Cotter Pin	1	
30	10573426	Pin	1	



**PARTS MANUAL**  
**14BV & 18 BV Series**



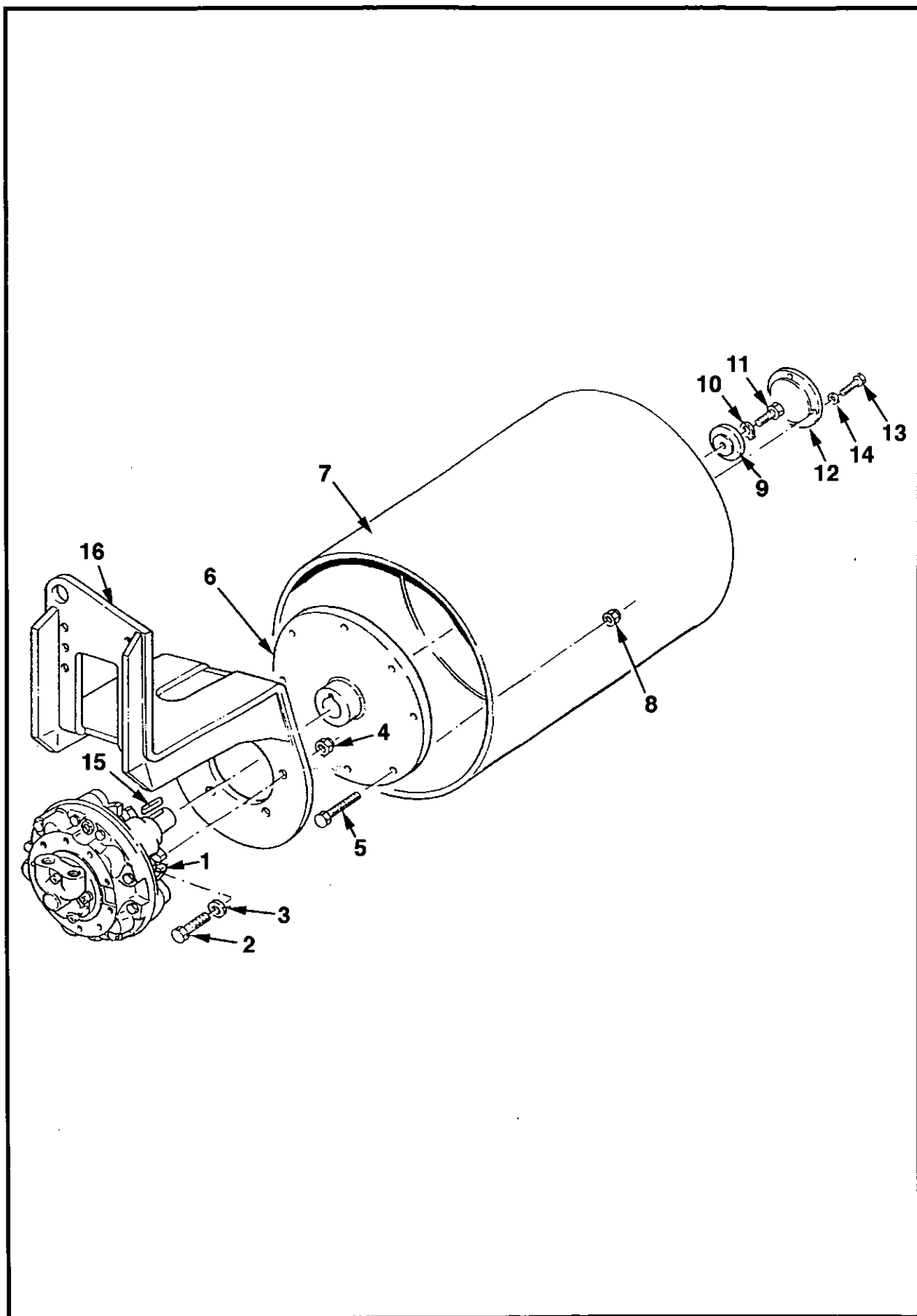
**FRONT DRUM ILLUSTRATED**

**PARTS MANUAL**  
**14BV & 18 BV Series**  
**FRONT/REAR DRUM ASSEMBLY**

TAV. 7.1

Item	CPN.	Description	Qty.	Spec.
1	10572436	Rear RH & Front LH Drum Support (14 BV)	2	Sai
1a	10572410	Rear RH & Front LH Drum Support (18 BV)	2	Sai
1b	10574275	Rear RH & Front LH Drum Support (14 BV)	2	Brevini
1ab	10574283	Rear RH & Front LH Drum Support (18 BV)	2	Brevini
2	92304443	Screw	16	
3	10574655	Lockwasher	16	
4	93453769	<b>Propulsion Motor</b> (Prior S/N. 14328 14BV, 18208 18BV)	1	
4a	10574226	<b>Propulsion Motor</b> (Eff. S/N. 14329 14BV, 18209 18BV)		
4b	10574234	Torque Hub (use with CPN 10574226)		
4c	10575595	O-Ring	1	
4d	10574648	Washer	4	
4e	10575603	Screw	4	
5	10574481	Nut	24	
6	10572527	Flange, Drum Drive (use with CPN 93453769)	2	
6	10574242	Flange, Drum Drive (use with CPN 10574234)		
7	93453751	Shock Mount Pad	16	
8	10574523	Nut (used with CPN 10572527 Qty = 5 x 2)	12	
9	96706163	Screw	2	
10	10574937	Washer	2	
11	10572451	Eccentric	2	
12	10572402	Drum (14BV)	2	
12	10572394	Drum (18BV)	2	
13	93453694	Oil Seal	2	
14	93453744	Key	2	
15	93453728	Shaft	2	
16	93453710	Bearing	2	
17	10572253	Circlip	2	
18	10573848	Spacer	2	
19	93453710	Bearing	2	
20	93453686	Oil Seal	2	
21	10572501	Valve, Breather	2	
22	10573202	Hub	2	
23	10572444	Rear LH & Front RH Drum Support (14 BV)	2	
23a	10572428	Rear LH & Front RH Drum Support (18 BV)	2	
24	92421403	Screw	12	
25	93453751	Shock Mount Pad	8	
26	10573764	Shock Mounting Plate	2	
27	93453702	Bearing	4	
28	10572261	Circlip	2	
29	93454015	<b>Motor, Vibration</b> , Eff. S/N. 14251 - 14254	1	Casappa
29	93454485	<b>Motor, Vibration</b> , Eff. S/N. 142249	1	Sauer Mk.2
30	93453736	Coupling	2	
31	10572550	Flange, Motor Mounting	2	
32	92421403	Screw	8	
33	10574622	Lockwasher	8	
34	92421429	Screw	8	
36	10573475	Plug	2	

**PARTS MANUAL**  
**14BS & 18 BS Series**

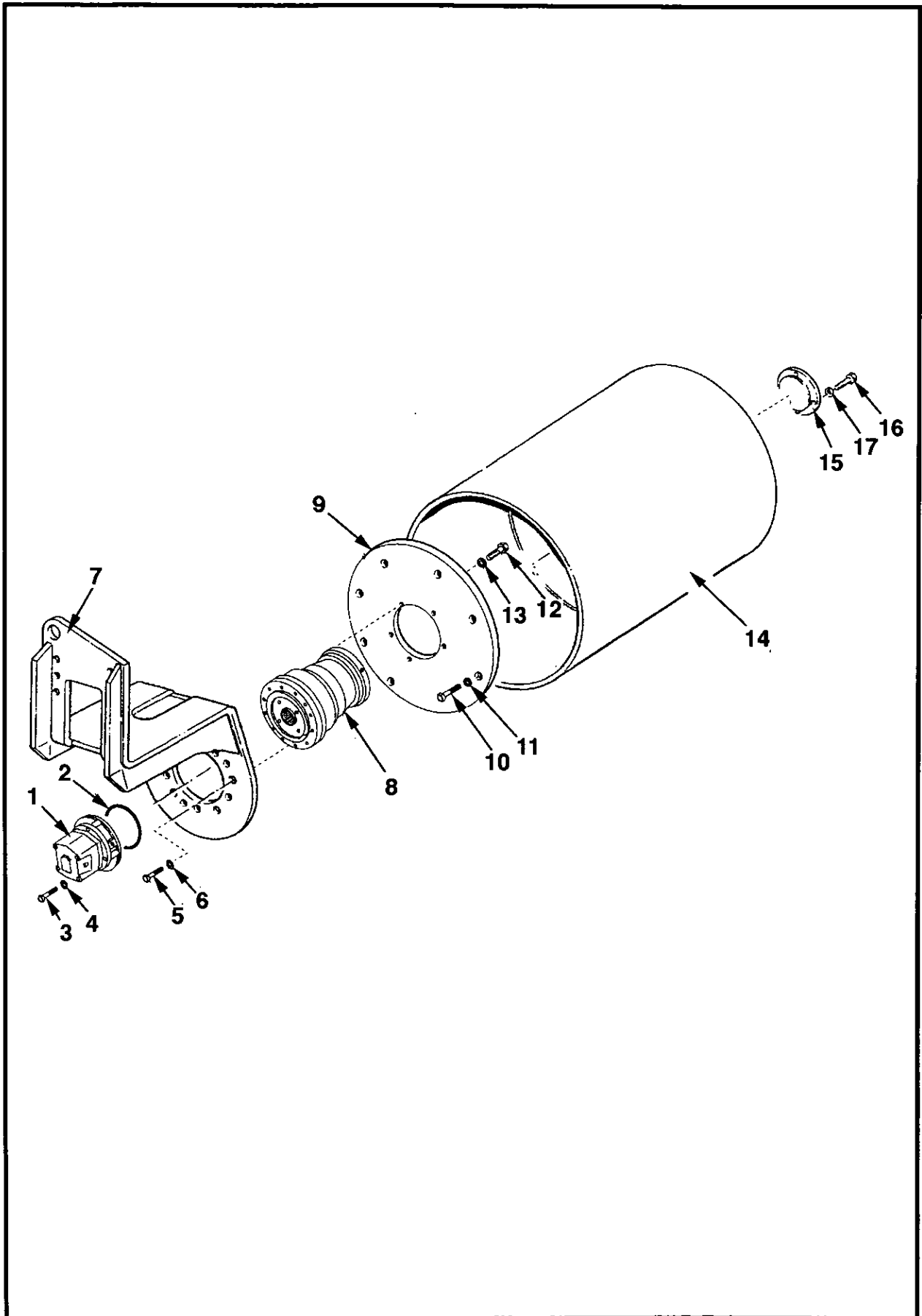


**PARTS MANUAL**  
**14BS & 18 BS Series**

**FRONT DRUM ASSEMBLY (Prior S/N. 14328 14BS, 18208 18BS)**

Item	CPN.	Description	Qty.	Spec.	19
1	93453769	<b>Propulsion Motor</b> (Prior S/N. 14328 14BS, 18208 18BS)	1		
2	10575561	Screw	5		
3	10575538	Washer	5		
4	10574481	Nut	5		
5	10575447	Screw	8		
6	10575470	Flange	1		
7	10572402	Drum (14BS)	1		
7	10572394	Drum (18BS)	1		
8	10575462	Nut	8		
9	10575520	Lock Plate	1		
10	10575546	Tab Washer	1		
11	10575587	Screw	6		
12	10574622	Lockwasher	6		
13	92304344	Screw	6		
14	10574622	Lockwasher	6		
15	10575132	Key	1		
16	10575496	Front RH Drum Support (14 BS)	1		
16	10573977	Front RH Drum Support (18 BS)	1		

**PARTS MANUAL**  
**14BS & 18 BS Series**

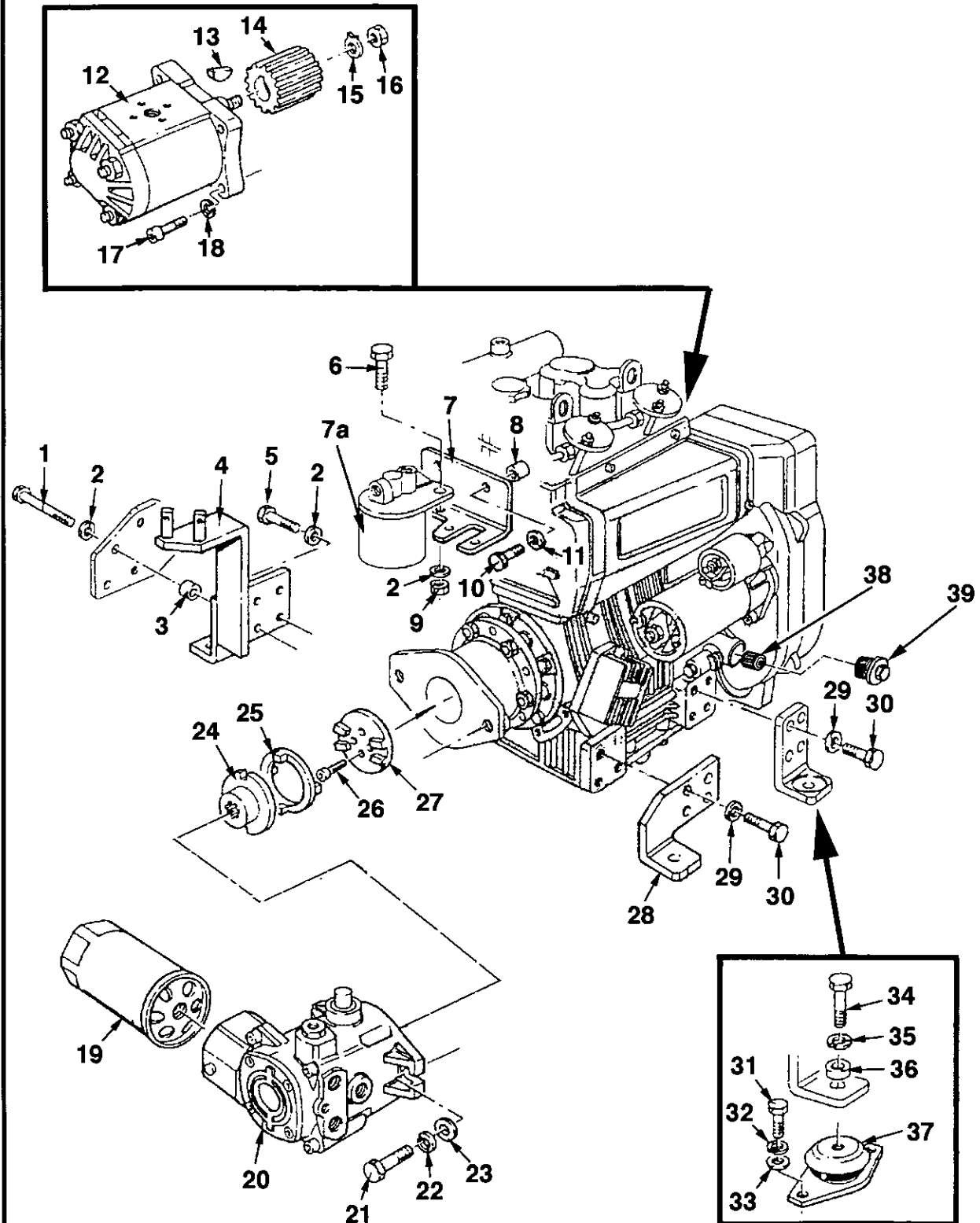


**PARTS MANUAL**  
**14BS & 18 BS Series**

**FRONT DRUM ASSEMBLY (Effective S/N. 14328 14BS, 18208 18BS)**

Item	CPN.	Description	Qty.	Spec.	21
1	10574226	<b>Propulsion Motor</b>			
2	10575595	O-ring	1		
3	10575603	Screw	4		
4	10574648	Washer	4		
5	10575454	Screw	12		
6	10575553	Washer	12		
7	10575504	Front RH Drum Support (14 BS)	2		
7	10575488	Front RH Drum Support (18 BS)	2		
8	10574234	Torque Hub			
9	10575439	Flange, Drum Drive (Eff. S/N. 14329 14BS, 18209 18BS)			
10	10575447	Screw	8		
11	92329341	Washer	8		
12	10575561	Screw	5		
13	92329341	Washer	5		
14	10572402	Drum (14BS)	1		
14	10572394	Drum (18BS)	1		
15	10575511	Cover	1		
16	92304344	Screw	6		
17	10574622	Lockwasher	6		

PARTS MANUAL  
14BS/BV & 18 BS/BV Series



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

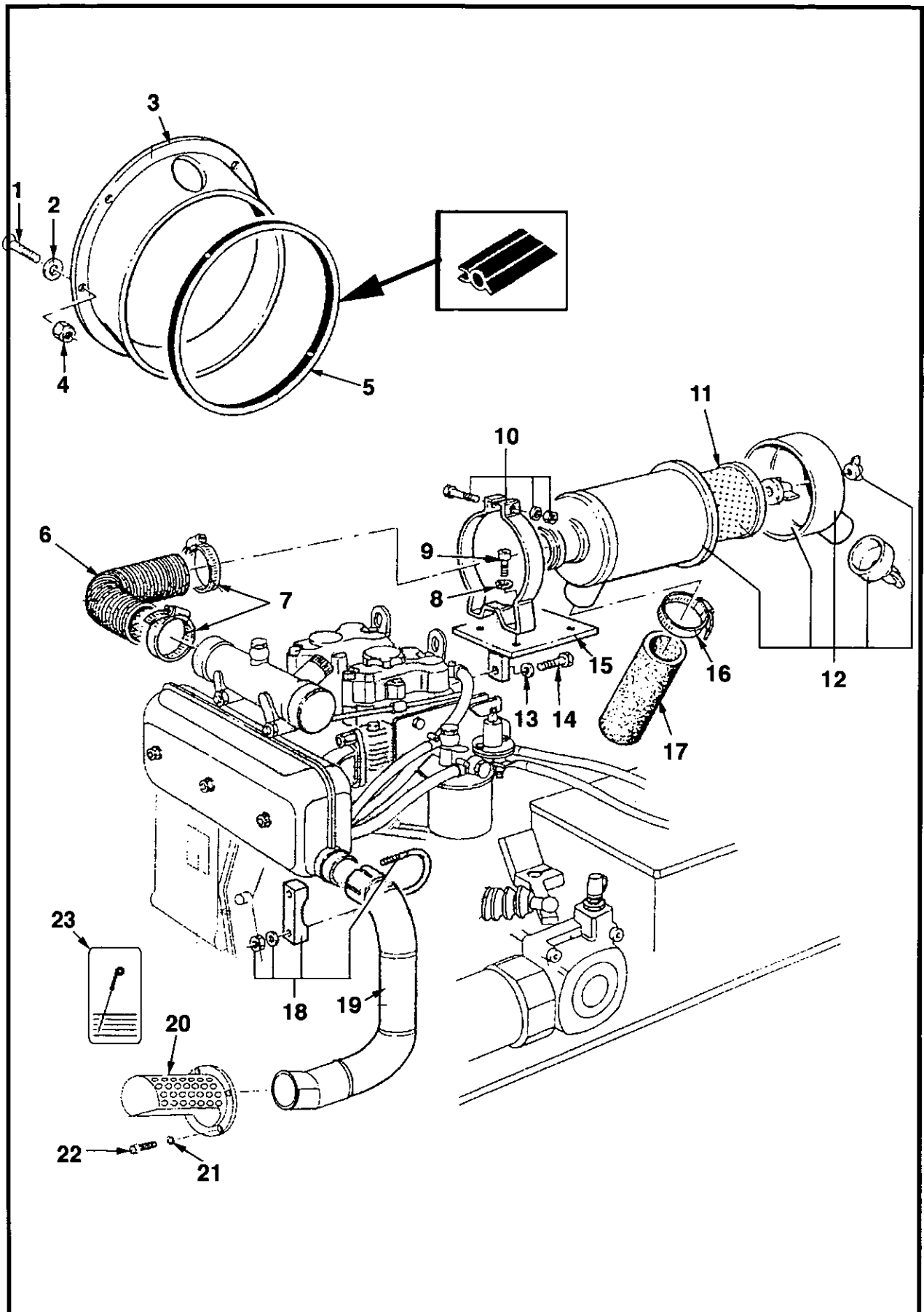
**ENGINE & HYDRAULIC PUMPS INSTALLATION**

TAV. 8.1

Item	CPN.	Description	Qty.	Spec.
1	92280981	Screw	2	
2	10574648	Lockwasher	6	
3	10574135	Bushing	2	
4	10573319	Mounting Bracket	1	
5	92304401	Screw	2	
6	92280981	Screw	2	
7	10573327	Mounting Bracket, Fuel Filter	1	
7a	93462174	- Fuel Filter	1	
8	10573905	Spacer	2	
9	10574390	Nut	2	
10	92304351	Screw	2	
11	10574622	Lockwasher	2	
12	93453850	<b>Pump, Vibration and Steering</b>	1	
13	10573269	Key	1	
14	10573806	Sleeve	1	
15	10574671	Washer	1	
16	10574424	Nut	1	
17	96708078	Screw	4	
18	10574622	Lockwasher	4	
19	93453835	Element, Hydraulic Filter	1	
20	93453843	<b>Pump, Propulsion</b>	1	
21	96706197	Screw	2	
22	10574663	Lockwasher	2	
23	10573830	Washer	2	
24	93453868	Sleeve	1	
25	93453876	Spider Coupling	1	
26	92421429	Screw	4	
27	93453884	Half Coupling	1	
28	10572162	Bracket, Engine Mounting	1	
29	10574648	Lockwasher	12	
30	92304401	Screw	12	
31	10574929	Screw	8	
32	10574622	Lockwasher	8	
33	10574556	Washer	8	
34	92329309	Screw	4	
35	10574648	Lockwasher	4	
36	10574598	Washer	4	
37	93454056	Pad	4	
38	10575173	Oil Filter, Engine	1	
39	10575165	Cover, Oil Filter	1	



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



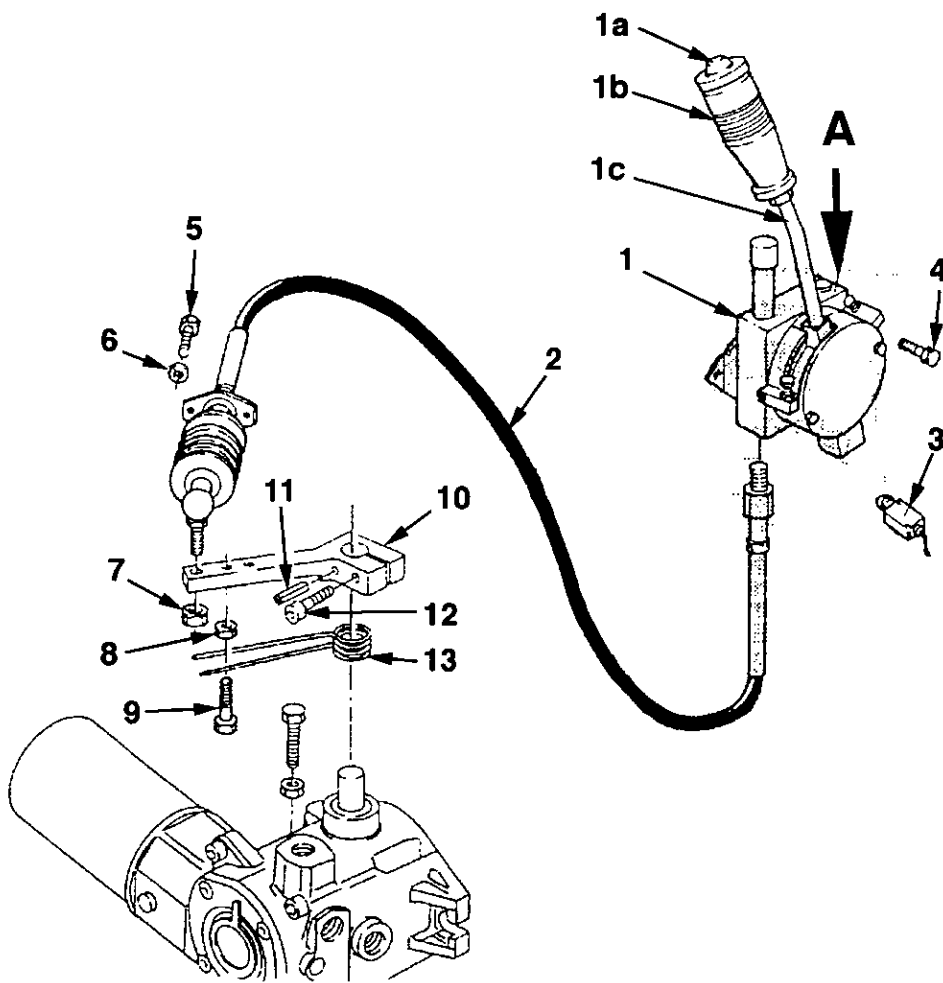
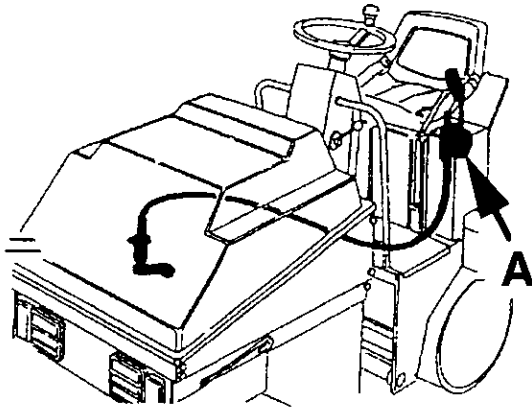
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**

**AIR CLEANER & EXHAUST MUFFLER INSTALLATION**

TAV.9.1

Item	CPN.	Description	Qty.	Spec.
1	10574333	Screw	6	
2	10574564	Washer	6	
3	10573772	Shroud, Fan	1	
4	10574457	Nut	6	
5	10573707	Seal	1	
6	10573186	Hose, Air Inlet	1	
7	10573145	Hose Clamp	2	
8	10574622	Lockwasher	4	
9	96727524	Screw	4	
10	10573335	Mounting Bracket, Air Cleaner <i>(Includes attaching hardware)</i>	2	
11	93453918	Element, Air Cleaner	1	
12	93461606	Air Filter Assembly, <i>(Includes item 11)</i>	1	
13	10574648	Lockwasher	2	
14	92304401	Screw	2	
15	93462182	Mounting Bracket, Air Cleaner	1	
16	10573152	Hose Clamp	1	
17	10573814	Sleeve	1	
18	93454205	Hose Clamp	1	
19	10573368	Muffler	1	
20	10572451	Exhaust Deflector	1	
21	93463131	Washer	4	
22	92463231	Screw	4	
23	10572824	Decal	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



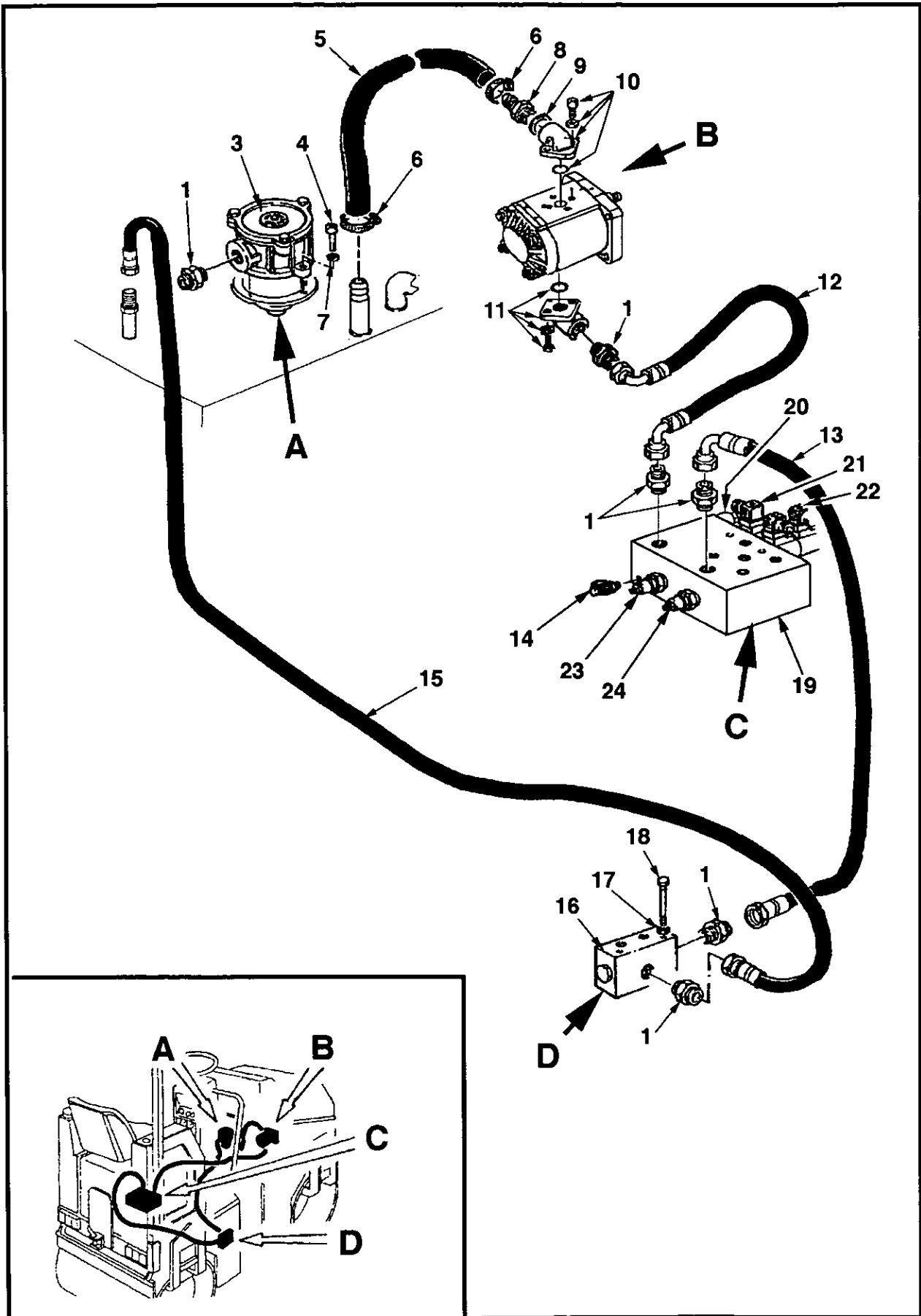
**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

**PROPULSION CONTROL INSTALLATION**

TAV. 10.1

Item	CPN.	Description	Qty.	Spec.
1	93454171	Propulsion Control Lever Assembly ( <i>includes items 1a, 1b, 1c</i> )	1	
1a	93462083	- Switch, Plastic (Vibration ON/OFF)	1	
1b	93462091	- Handle	1	
1c	93462109	- Lever	1	
2	93454155	Cable, Propulsion Control	1	
3	93454197	Switch, Neutral Start	2	
4	96705835	Screw	2	
5	92096031	Screw	2	
6	10574622	Lockwasher	1	
7	10574374	Nut	1	
8	10574382	Nut	1	
9	92304369	Screw	1	
10	10575215	Lever, Pump	1	
11	10575223	Pin	1	
12	10575231	Screw	1	
13	10575249	Spring	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



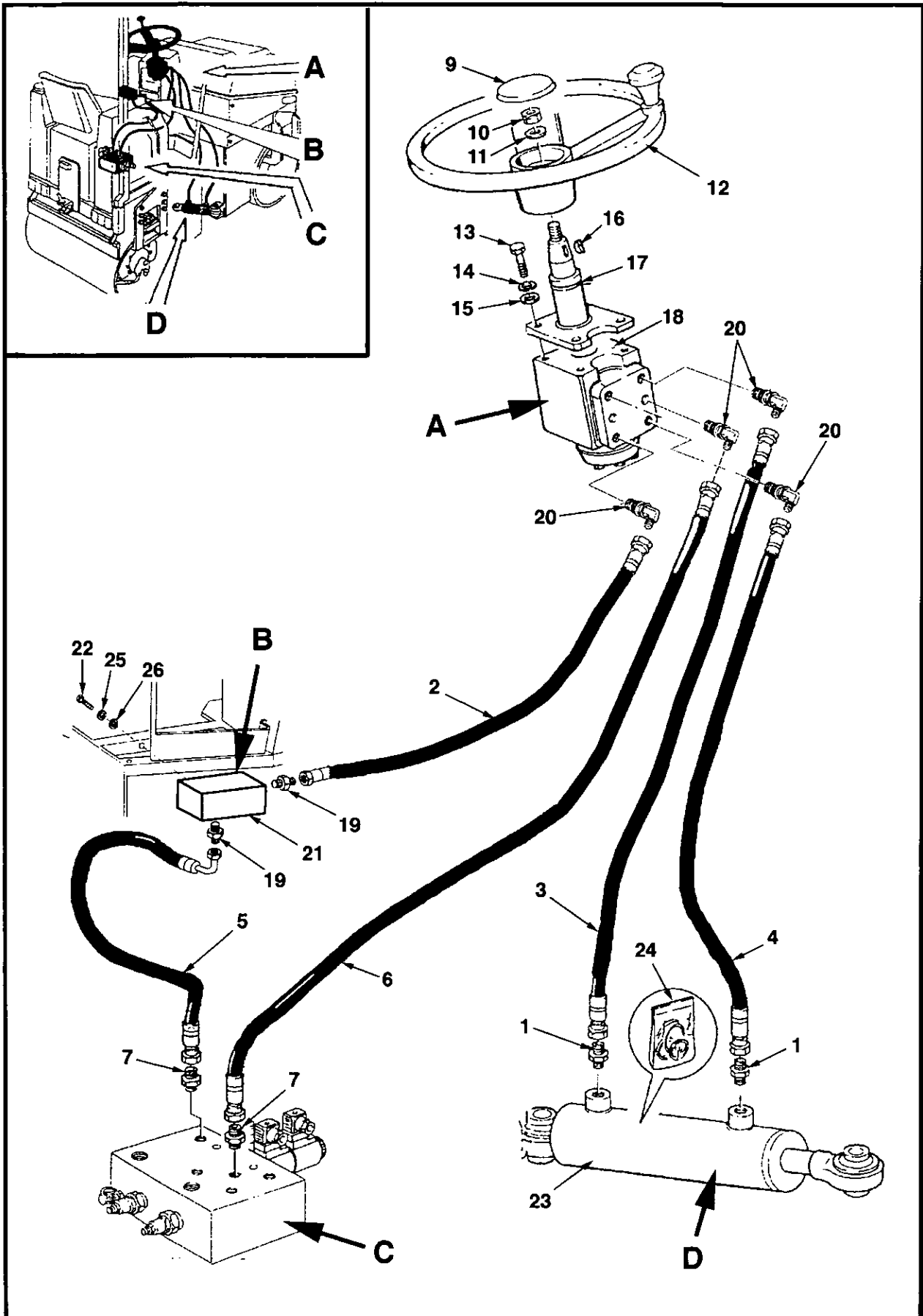
**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

**VIBRATION/STEERING PUMP SUCTION/DISCHARGE SYSTEM**

TAV. 11.1

Item	CPN.	Description	Qty.	Spec.
1	10574861	Adapter	6	
3	93464519	<b>Return Filter</b>	1	
-	10575207	- Element Screen ( <i>used with item 3</i> )		
4	92421411	Screw	2	
5	10572881	Hose Assembly	1	
6	10573129	Jubilee Clip	2	
7	10574937	Lockwasher	2	
8	10574705	Adapter	1	
9	10573665	Seal	1	
10	93453827	Flange ( <i>Including hardware</i> )	1	
11	93453819	Flange ( <i>Including hardware</i> )	1	
12	10572923	Hose Assembly	1	
13	10572899	Hose Assembly	1	
14	10574689	Adapter	1	
15	10572949	Hose Assembly	1	
16	10572469	Return Drain Manifold	1	
17	10574622	Lockwasher	2	
18	92472109	Screw	2	
19	93464501	<b>Priority Valve/Manifold</b> ( <i>Includes items 20-24</i> )	1	
20	10575272	- Adjustment Valve, Flowdivider	1	
21	10575280	- Solenoid Valve, (Drum Offset)	1	
22	10575298	- Solenoid Valve, (Vibration)	1	
23	10575306	- Relief Valve (Vibration)	1	
24	10575314	- Relief Valve (Drum Offset)	1	

# **PARTS MANUAL** **14BS/BV & 18 BS/BV Series**



**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**

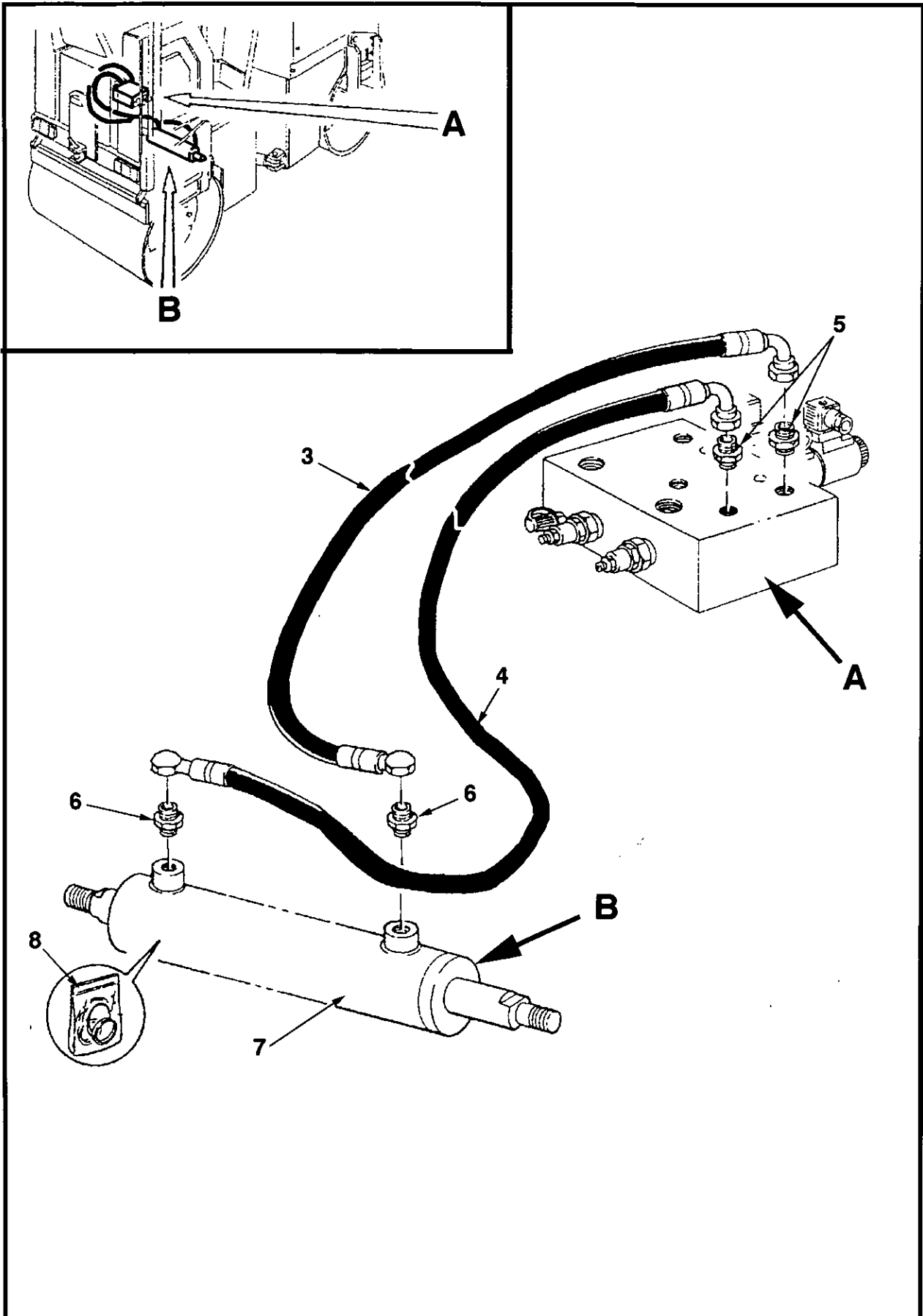
**STEERING SYSTEM HOISING INSTALLATION**

TAV. 12.1

Item	CPN.	Description	Qty.	Spec.
1	10574820	Adapter	2	
2	10573079	Hose Assembly	1	
3	10573061	Hose Assembly	1	
4	10572675	Hose Assembly	1	
5	10572808	Hose Assembly	1	
6	10572667	Hose Assembly	1	
7	10574838	Adapter	2	
9	10573525	Plug	1	
10	10574432	Nut	1	
11	10574572	Washer	1	
12	10573962	Steering Wheel	1	
13	92280981	Screw	4	
14	10574648	Lockwasher	4	
15	93463131	Washer	4	
16	10573277	Key	1	
17	10573939	Steering Column	1	
18	93454007	<b>Steering Valve</b>	1	
19	10574838	Adapter	2	
20	10573533	Reducer Bushing	1	
21	10573210	Hyd. Accumulator	1	
22	10576445	Screw	2	
23	10573954	<b>Hydraulic Cylinder, Steering</b>	1	
24	93453793	Seal Kit, Steering Cylinder	1	
25	10574622	Lockwasher	2	
26	10574556	Washer	2	



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

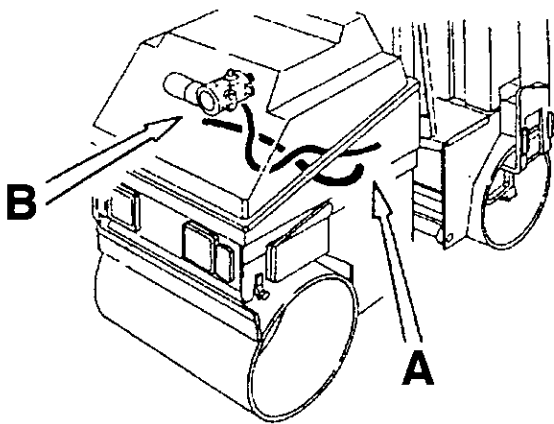
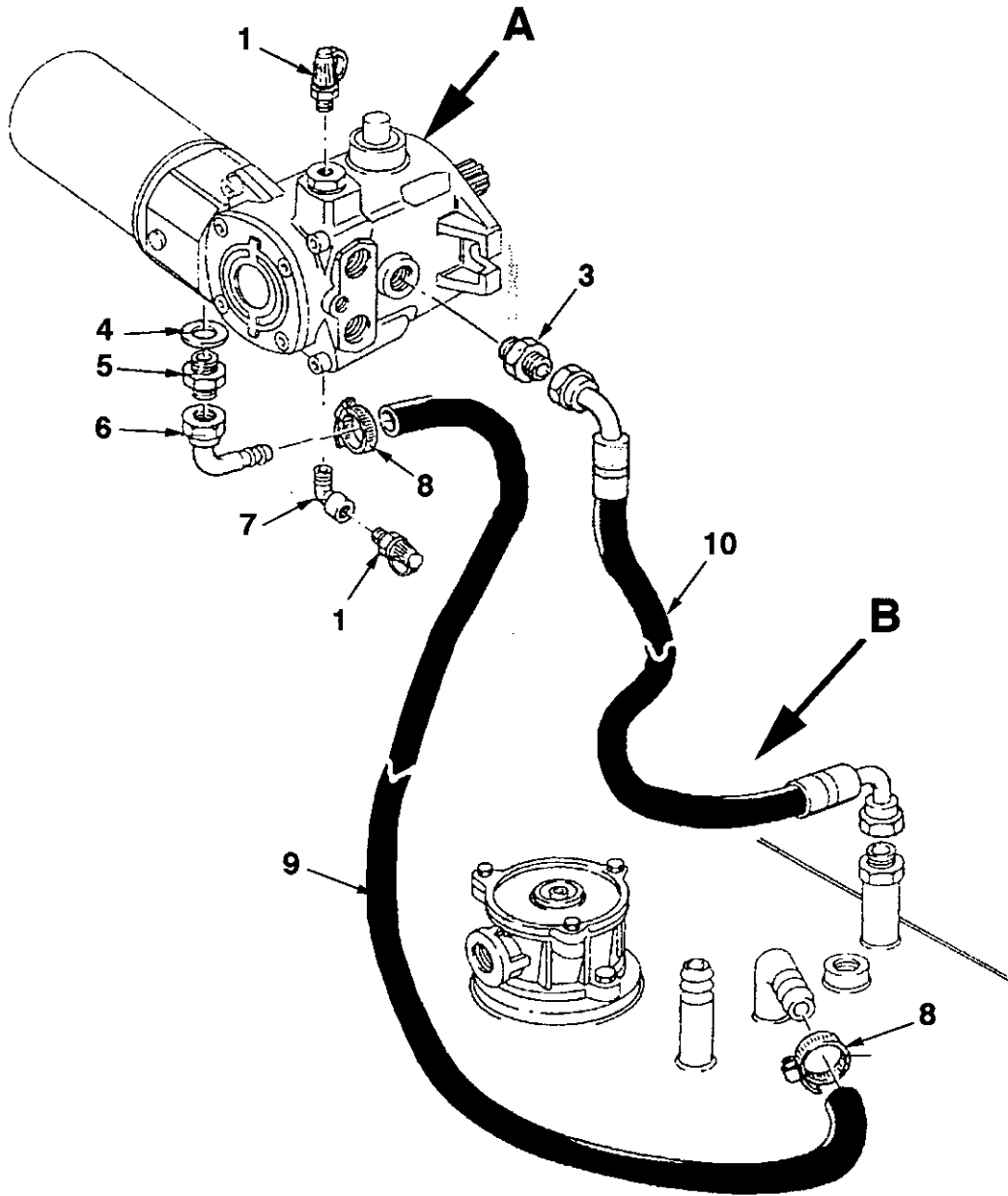


**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**  
**DRUM OFFSET HOISING INSTALLATION**

TAV. 13.1

Item	CPN.	Description	Qty.	Spec.
3	10572717	Hose Assembly	1	
4	10572717	Hose Assembly	1	
5	10574838	Adapter, Reducer	2	
6	10574820	Adapter	2	
7	10573947	Hydraulic Cylinder, Drum Offset	1	
8	93453801	Seal Kit, Steering Cylinder	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



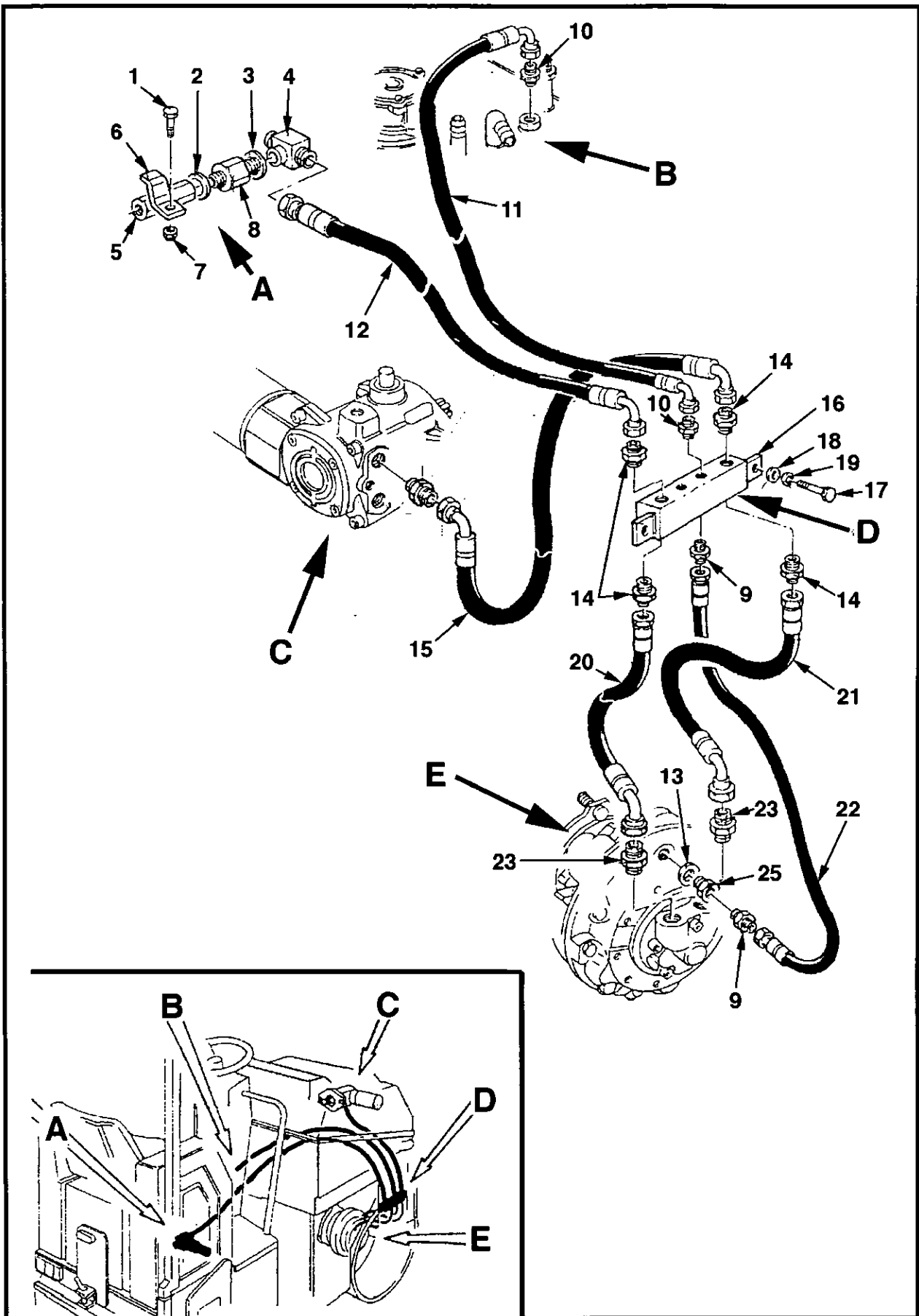
**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

**PROPULSION PUMP HOISING INSTALLATION**

TAV. 14.1.1

Item	CPN.	Description	Qty.	Spec.
1	10574168	Test Port Fitting	2	
3	10574861	Adapter	1	
4	10573665	Seal	1	
5	10574796	Adapter	1	
6	10574192	90° Hose Fitting	1	
7	10574184	90° Adapter	1	
8	10573251	Jubilee Clip	2	
9	10572873	Hose Assembly	1	
10	10572956	Hose Assembly	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

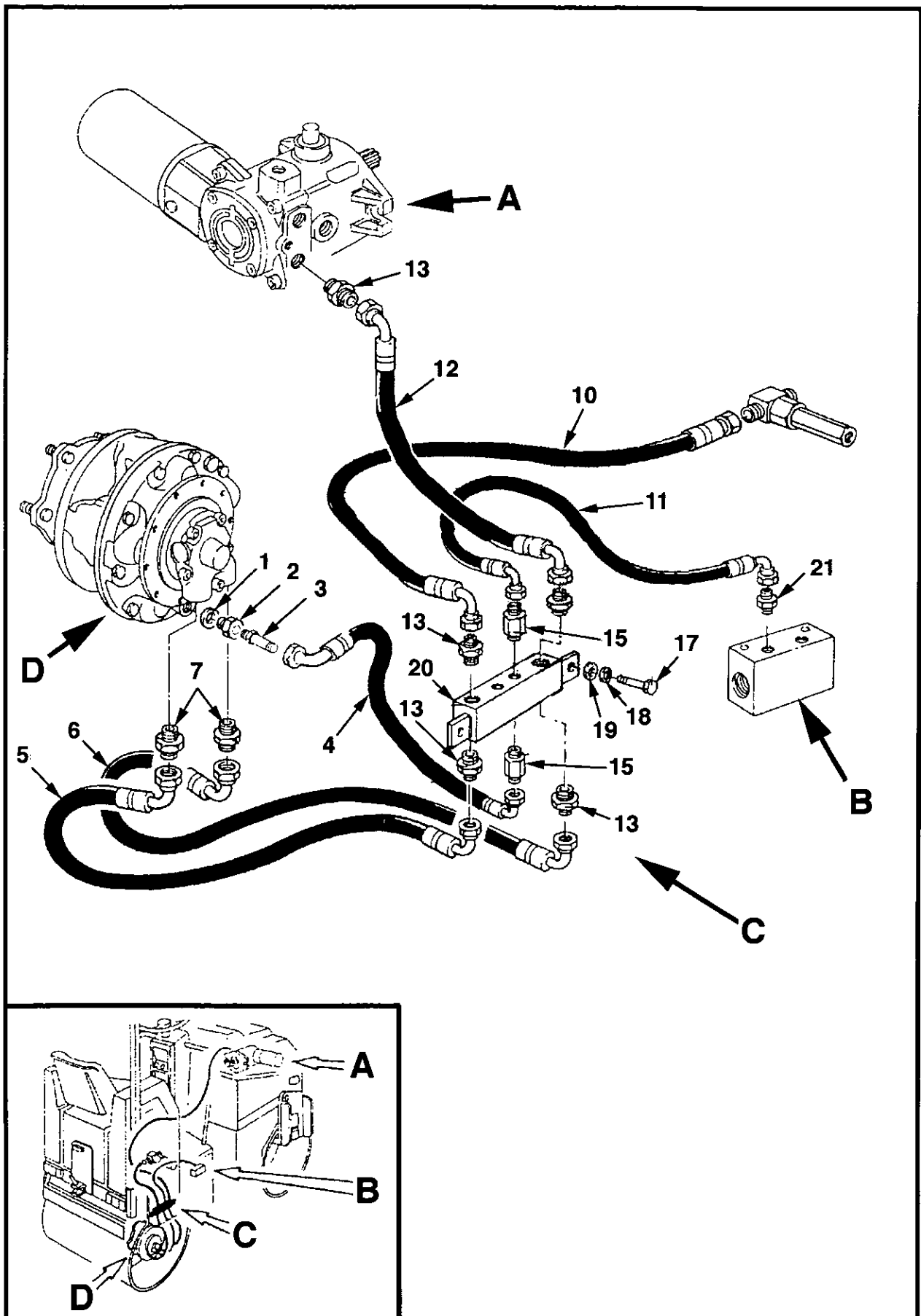


**PARTS MANUAL**  
**14BV & 18 BV Series**  
**PROPULSION HOISING - FRONT DRUM**  
(Prior S/N. 14328 14 BV, 18208 18 BV)

TAV. 14.1.2

Item	CPN.	Description	Qty.	Spec.
1	10575009	Screw	1	
2	10573673	Seal	1	
3	10573657	Seal	1	
4	10574739	Adapter	2	
5	10572626	Valve	2	
6	10572295	Clamp Bracket	1	
7	10574457	Nut	4	
8	10574895	Adapter, Reducer	4	
9	10574903	Adapter	2	
10	10574820	Adapter	4	
11	10572741	Hose Assembly	1	
12	10572790	Hose Assembly	1	
13	10573657	Seal	1	
14	10574861	Adapter	2	
15	10573053	Hose Assembly	2	
16	10574119	Manifold, 4 hole	1	
17	90141078	Screw	1	
18	10574556	Washer	1	
19	10574622	Lockwasher	1	
20	10573012	Hose Assembly (18 BV)	1	
20	10572915	Hose Assembly (14 BV)	1	
21	10573012	Hose Assembly (18 BV)	1	
21	10572915	Hose Assembly (14 BV)	1	
22	10572998	Hose Assembly (18 BV)	1	
22	10573020	Hose Assembly (14 BV)	1	
23	10574812	Adapter	1	
25	10574879	Adapter, Reducer Bushing	2	

# **PARTS MANUAL** **14BS/BV & 18 BS/BV Series**



**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**PROPULSION HOSE INSTALLATION -REAR DRUM**

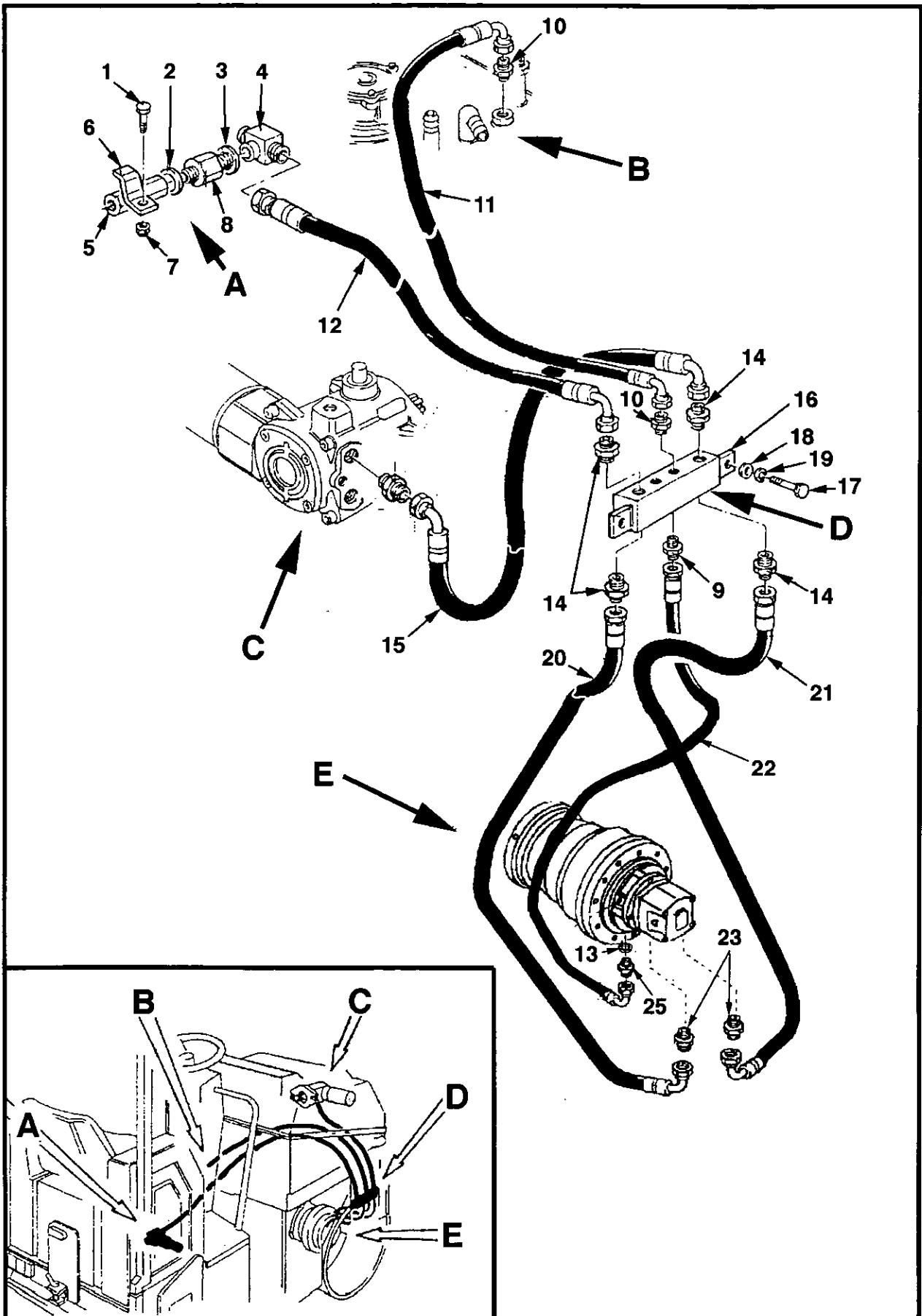
(Prior S/N. 14328 14BS/BV, 18208 18BS/BV)

TAV. 14.1.3

Item	CPN.	Description	Qty.	Spec.
1	10573657	Seal	1	
2	10574895	Adapter, Reducer	1	
3	10574903	Adapter, Reducer	1	
4	10572998	Hose Assembly (18 BS/BV)	1	
4	10573020	Hose Assembly (14 BS/BV)	1	
5	10572980	Hose Assembly (18 BS/BV)	1	
5	10573012	Hose Assembly (14 BS/BV)	1	
6	10572907	Hose Assembly (18 BS/BV)	1	
6	10572980	Hose Assembly (14 BS/BV)	1	
7	10574879	Adapter	2	
10	10572683	Hose Assembly	1	
11	10572931	Hose Assembly	1	
12	10572915	Hose Assembly	1	
13	10574861	Adapter	1	
15	10572139	Adapter, Extension	2	
17	90141078	Screw	2	
18	10574622	Lockwasher	2	
19	10574556	Washer	2	
20	10574119	Manifold, 4 hole	1	
21	10574762	Adapter	1	



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

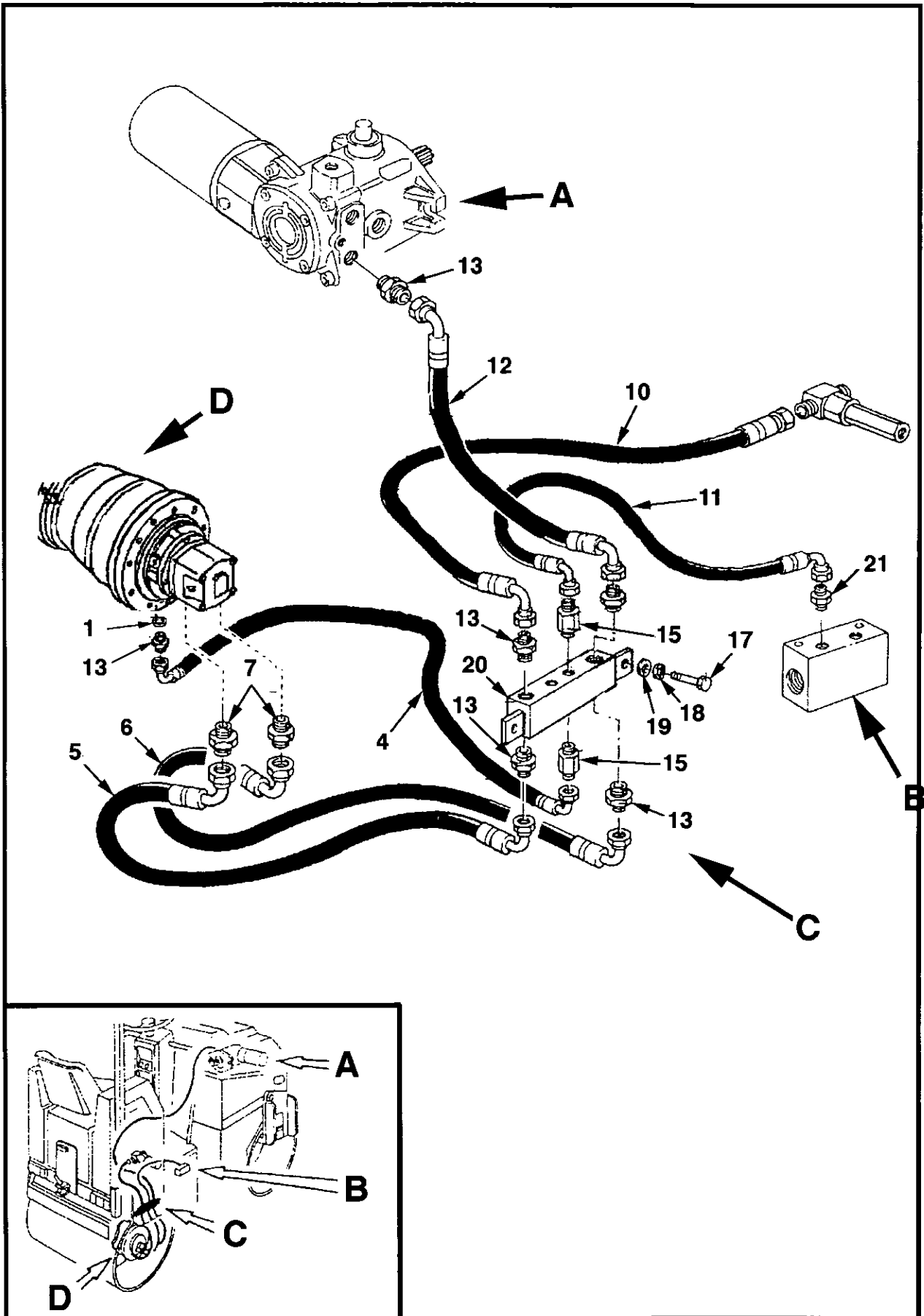


**PARTS MANUAL**  
**14 BV & 18 BV Series**  
**PROPULSION HOISING INSTALLATION - FRONT DRUM**  
(Effective w. S/N. 14328 14 BV, 18208 18 BV)

TAV. 14.1 2 R1

Item	CPN.	Description	Qty.	Spec.
1	10575009	Screw	1	
2	10573673	Seal	1	
3	10573657	Seal	1	
4	10574739	Adapter	2	
5	10572626	Valve	2	
6	10572295	Clamp Bracket	1	
7	10574457	Nut	4	
8	10574895	Adapter, Reducer	4	
9	10574903	Adapter	2	
10	10574820	Adapter	4	
11	10572741	Hose Assembly	1	
12	10572790	Hose Assembly	1	
13	10573657	Seal	1	
14	10574861	Adapter	2	
15	10573053	Hose Assembly	2	
16	10574119	Manifold, 4 hole	1	
17	90141078	Screw	1	
18	10574556	Washer	1	
19	10574622	Lockwasher	1	
20	10572840	Hose Assembly (18 BV)	1	
20	10572816	Hose Assembly (14 BV)	1	
21	10572840	Hose Assembly (18 BV)	1	
21	10572816	Hose Assembly (14 BV)	1	
22	10572808	Hose Assembly (18 BV)	1	
22	10572832	Hose Assembly (14 BV)	1	
23	10574812	Adapter	1	
25	10574879	Adapter, Reducer Bushing	2	
26	10574747	Adapter	1	
27	10574721	Adapter	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



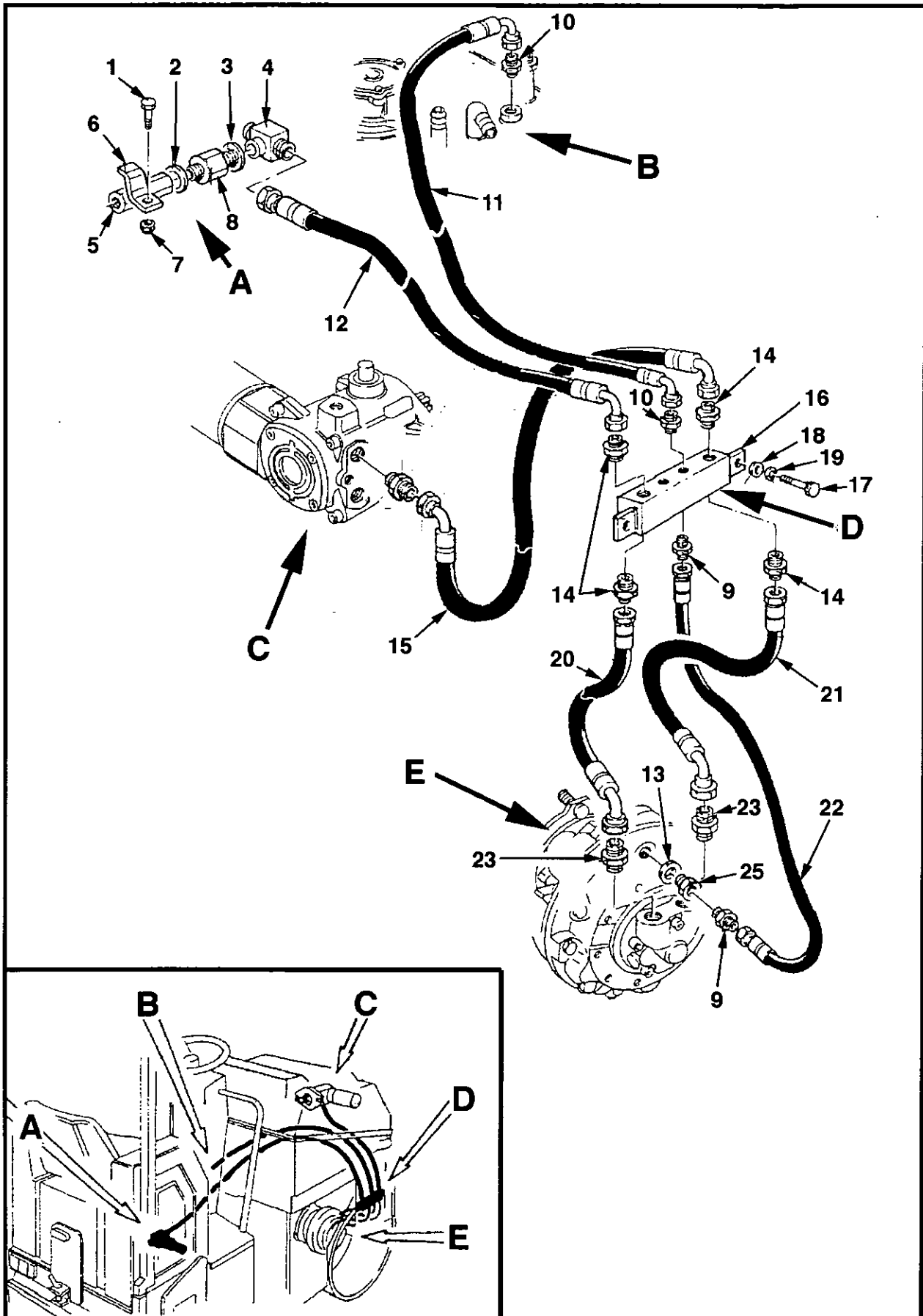
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**PROPULSION HOSE INSTALLATION - REAR DRUM**

(Effective w. S/N. 14328 14 BS/BV, 18208 18 BS/BV)

TAV, 14.1.3 R1

Item	CPN.	Description	Qty.	Spec.
1	10573657	Seal	1	
2	10574895	Adapter, Reducer	1	
3	10574903	Adapter, Reducer	1	
4	10572808	Hose Assembly (18 BV)	1	
4	10572832	Hose Assembly (14 BV)	1	
5	10572840	Hose Assembly (18 BV)	1	
5	10572816	Hose Assembly (14 BV)	1	
6	10572840	Hose Assembly (18 BV)	1	
6	10572816	Hose Assembly (14 BV)	1	
7	10574879	Adapter	2	
10	10572683	Hose Assembly	1	
11	10572931	Hose Assembly	1	
12	10572915	Hose Assembly	1	
13	10574861	Adapter	1	
15	10572139	Adapter, Extension	2	
17	90141078	Screw	2	
18	10574622	Lockwasher	2	
19	10574556	Washer	2	
20	10574119	Manifold, 4 hole	1	
21	10574762	Adapter	1	

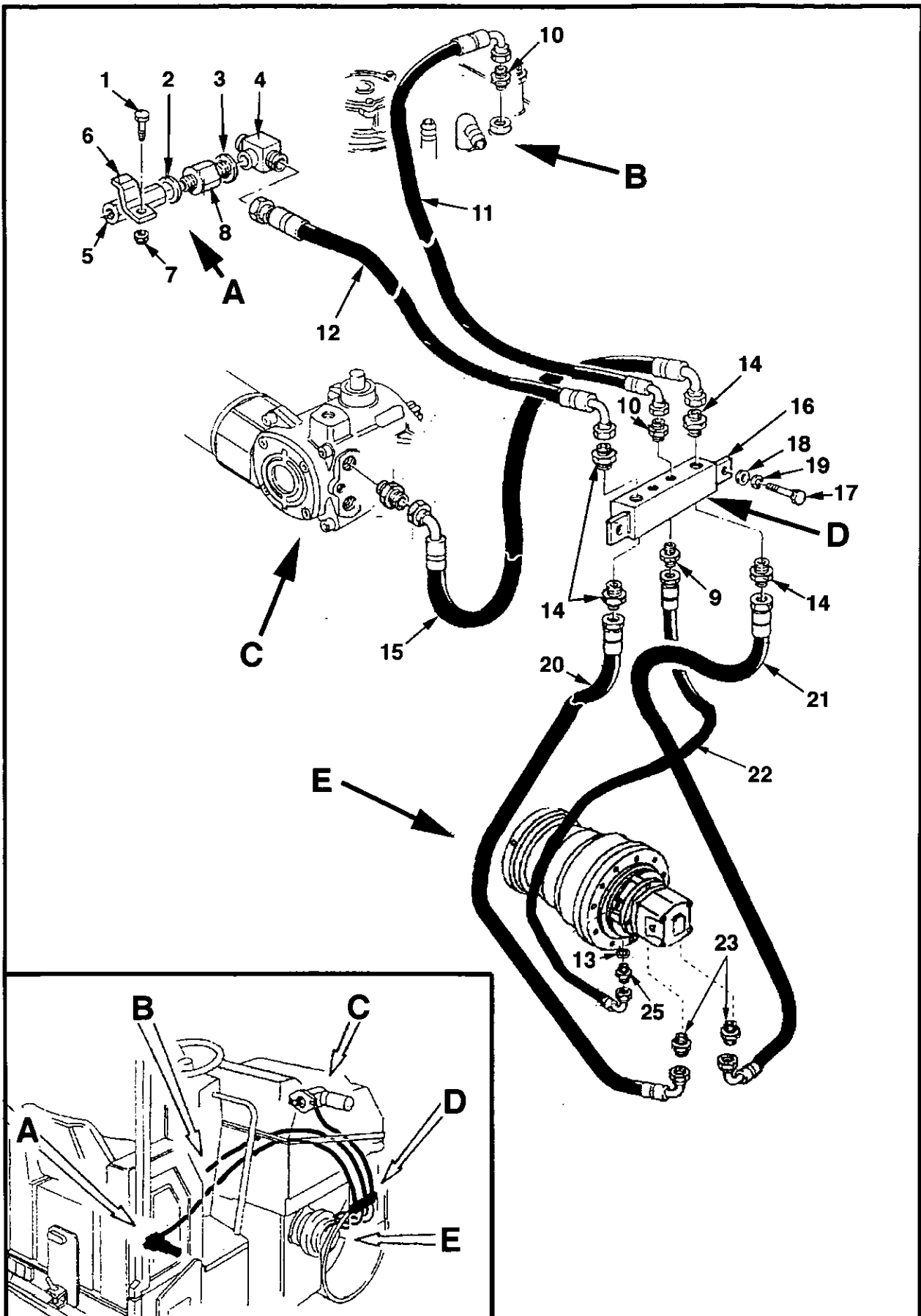
**PARTS MANUAL**  
**14BS & 18 BS Series**



**PARTS MANUAL**  
**14 BS & 18 BS Series**  
**PROPULSION HOSE INSTALLATION - FRONT DRUM**  
(Prior S/N. 14328 14 BS, 18208 18 BS)

Item	CPN.	Description	Qty.	Spec.
1	10575009	Screw	1	TE M6X25 8G UNI
2	10573673	Seal	1	
3	10573657	Seal	1	
4	10574739	Adapter	2	
5	10572626	Valve	2	
6	10572295	Clamp Bracket	1	
7	10574457	Nut	4	M6x1 DIN 982
8	10574895	Adapter, Reducer	4	
9	10574903	Adapter	2	
10	10574820	Adapter	4	
11	10572741	Hose Assembly	1	
12	10572790	Hose Assembly (14 BS, 18 BS)	1	
13	10573657	Seal	1	
14	10574861	Adapter	2	
15	10575108	Hose Assembly (14 BS, 18 BS)	2	
16	10574119	Manifold, 4 hole	1	
17	90141078	Screw	1	TE M8X25 8G UNI
18	10574556	Washer	1	D.8 UNI 6592 Znt
19	10574622	Lockwasher	1	D.8 Znt
20	10573012	Hose Assembly (18 BS)	1	
20	10572915	Hose Assembly (14 BS)	1	
21	10573012	Hose Assembly (18 BS)	1	
21	10572915	Hose Assembly (14 BS)	1	
22	10572998	Hose Assembly (18 BS)	1	
22	10573020	Hose Assembly (14 BS)	1	
23	10574812	Adapter	1	
25	10574879	Adapter, Reducer Bushing	2	

# **PARTS MANUAL** **14BS & 18 BS Series**



**PARTS MANUAL**  
**14BS & 18 BS Series**

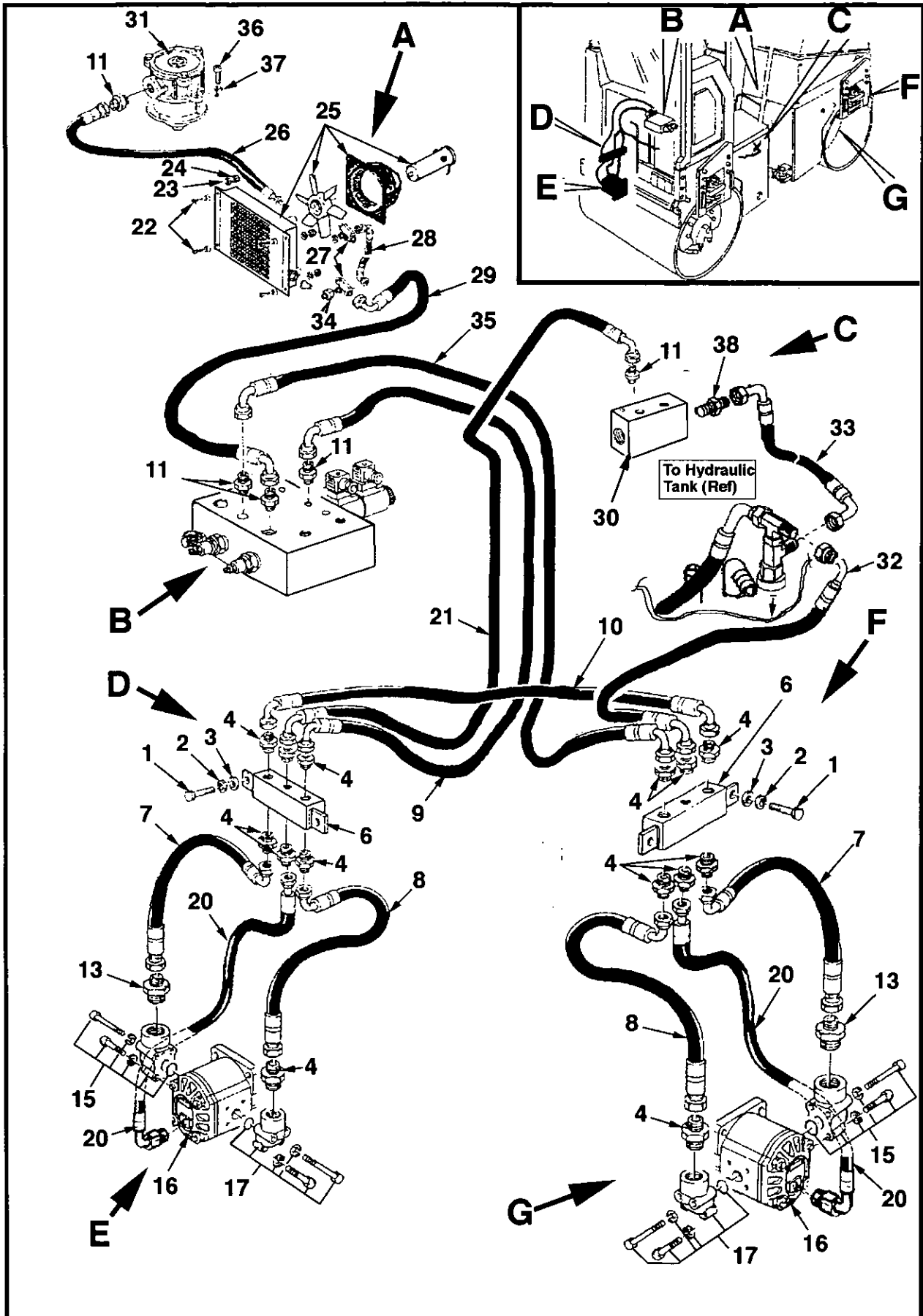
**PROPULSION HOSE INSTALLATION - FRONT DRUM**

(Effective w. S/N. 14328 14 BS, 18208 18 BS)

Item	CPN.	Description	Qty.	Spec.	47
1	10575009	Screw	1	TE M6X25 8G UNI	
2	10573673	Seal	1		
3	10573657	Seal	1		
4	10574739	Adapter	2		
5	10572626	Valve	2		
6	10572295	Clamp Bracket	1		
7	10574457	Nut	4	M6x1 DIN 982	
8	10574895	Adapter, Reducer	4		
9	10574903	Adapter	2		
10	10574820	Adapter	4		
11	10572741	Hose Assembly	1		
12	10575090	Hose Assembly (14/18 BS)	1		
13	10573657	Seal	1		
14	10574861	Adapter	2		
15	10575108	Hose Assembly (14/18 BS)	2		
16	10574119	Manifold, 4 hole	1		
17	90141078	Screw	1	TE M8X25 8G UNI	
18	10574556	Washer	1	D.8 UNI 6592 Znt	
19	10574622	Lockwasher	1	D.8 Znt	
20	10572840	Hose Assembly (18 BS)	1		
20	10572816	Hose Assembly (14 BS)	1		
21	10572840	Hose Assembly (18 BS)	1		
21	10572816	Hose Assembly (14 BS)	1		
22	10572808	Hose Assembly (18 BS)	1		
22	10572832	Hose Assembly (14 BS)	1		
23	10574812	Adapter	1		
25	10574879	Adapter, Reducer Bushing	2		
26	10574747	Adapter	1		
27	10574721	Adapter	1		



**PARTS MANUAL**  
**14BV & 18 BV Series**



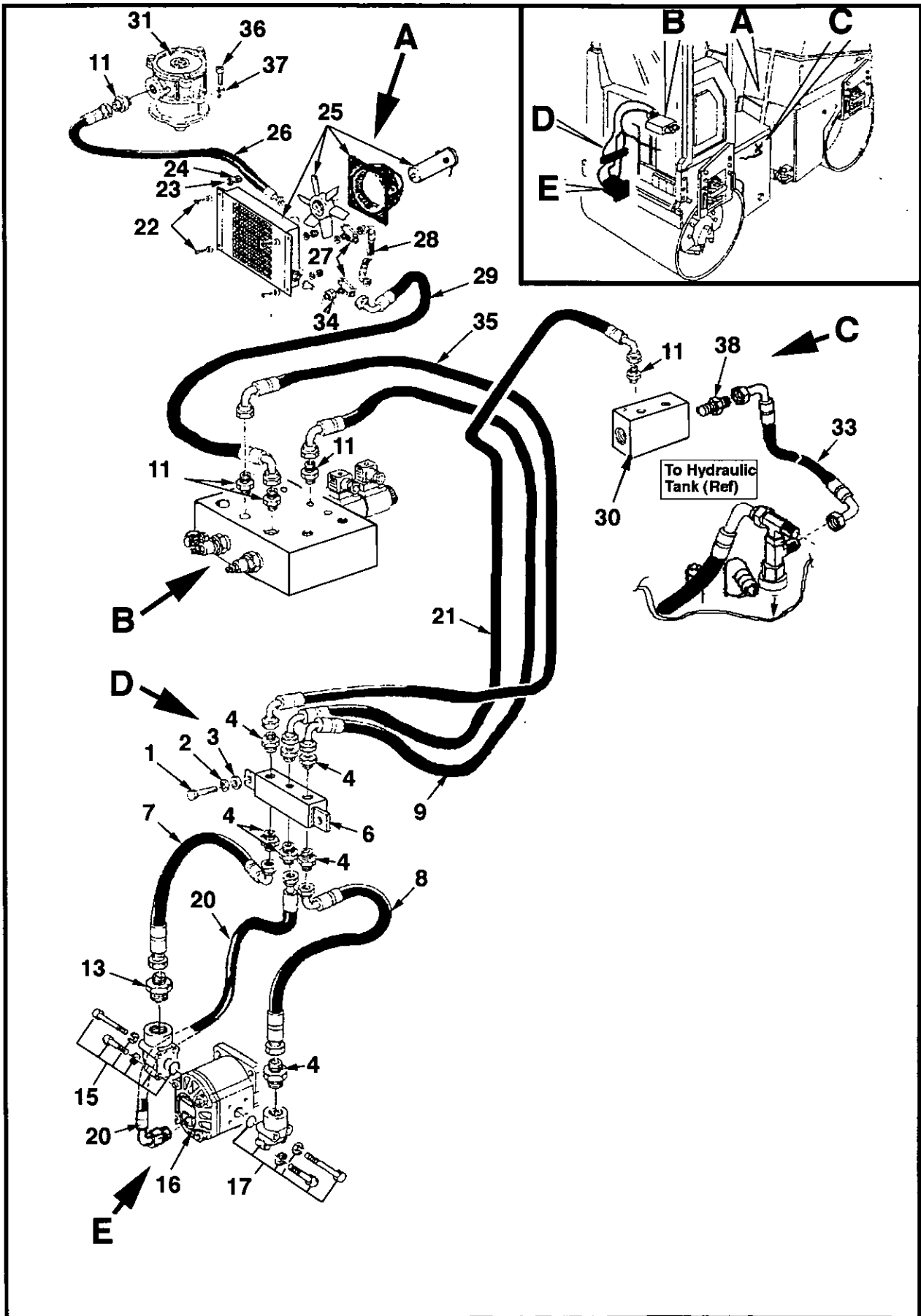
**PARTS MANUAL**  
**14BV & 18 BV Series**

**VIBRATION SYSTEM HOISING INSTALLATION**

TAV. 15.1

Item	CPN.	Description	Qty.	Spec.
1	90141078	Screw	2	Casappa Sauer mk.2
2	10574622	Lockwasher	2	
3	10574556	Washer	2	
4	10574846	Adapter, Reducer	14	
6	10573723	Manifold, 3 hole	2	
7	10572758	Hose Assembly (14 BV)	2	
7	10572766	Hose Assembly (18 BV)	2	
8	10572758	Hose Assembly (14 BV)	2	
8	10572766	Hose Assembly (18 BV)	2	
9	10572972	Hose Assembly	1	
10	10572964	Hose Assembly	1	
11	10574879	Adapter ( <i>includes seal</i> )	5	
13	10574853	Adapter, Reducer	2	
15	10572543	Flange, including hardware (used with 93454015)	1	
15	10572535	Flange, including hardware (used with 93454485)	1	
16	93454015	<b>Motor, Vibration</b> (S/N. 14251 - 14254)	2	
16	93454485	<b>Motor, Vibration</b> (Eff. 14255)	2	
17	10572535	Flange, including hardware (used with 93454015)	1	
17	10572535	Flange, including hardware (used with 93454485)	1	
20	10575413	Hose Assembly	2	
21	10575421	Hose Assembly	1	
22	10574358	Screw	4	
23	10574556	Washer	4	
24	10574465	Nut	4	
25	10574127	<b>Oil Cooler Assembly</b> , (includes items shown)	1	
-	10574200	- Motor, Fan	1	
-	10574218	- Fan	1	
-	10575397	- Shroud, Fan	1	
-	10575405	- Oil Cooler	1	
26	10572949	Hose Assembly	1	
27	10574739	Adapter	2	
28	10572691	Hose Assembly	1	
29	10573046	Hose Assembly	1	
30	10572469	Return Drain Manifold	1	
31	93464519	Oil Filter, Return	1	
32	10572741	Hose Assembly	1	
33	10572733	Hose Assembly	1	
34	10574911	Adapter	2	
35	10572758	Hose Assembly	1	
36	92421411	Screw	2	
37	10574622	Lockwasher	2	

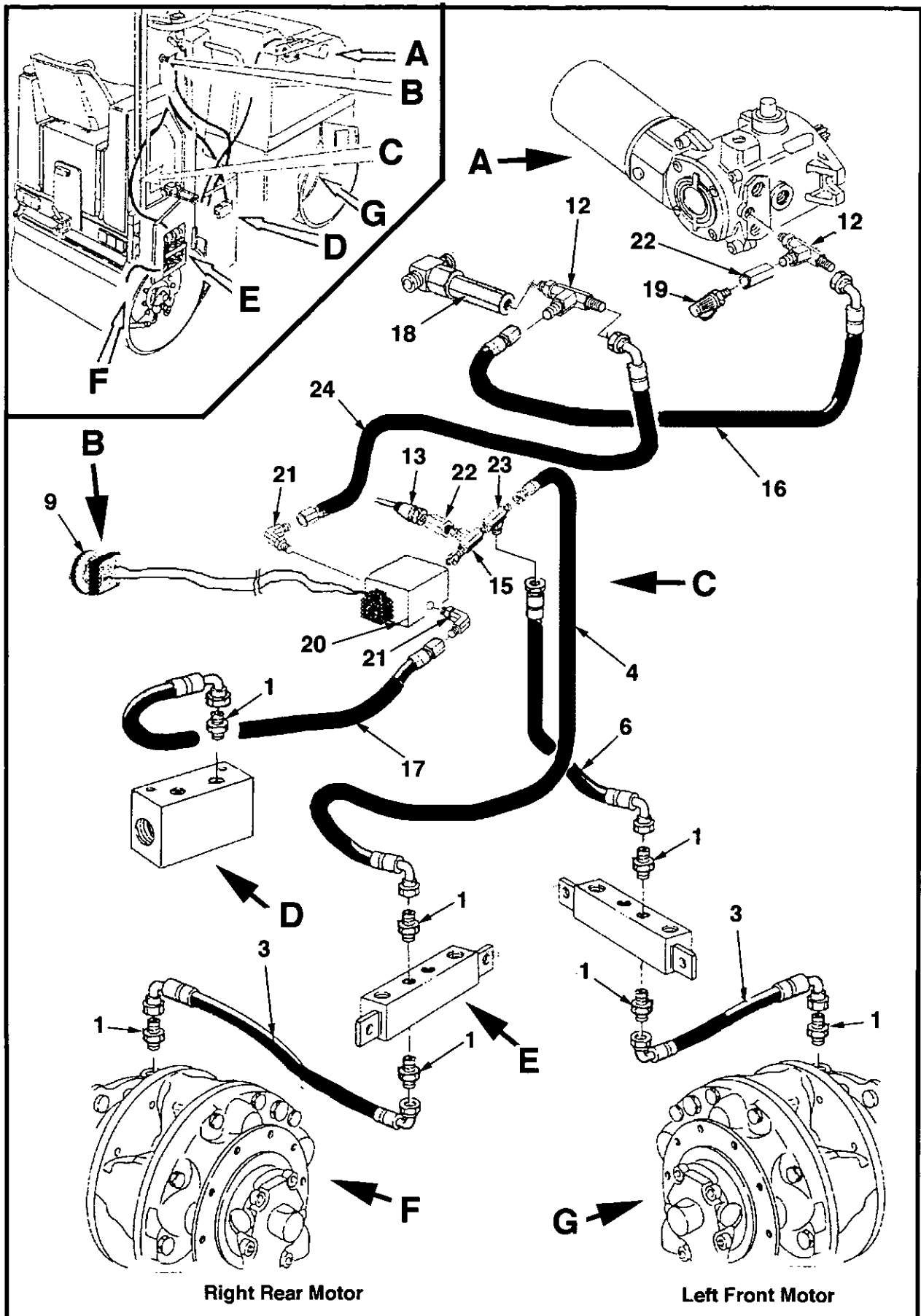
PARTS MANUAL  
14BS & 18 BS Series



**PARTS MANUAL**  
**14BS & 18 BS Series**  
**VIBRATION SYSTEM HOSEING INSTALLATION**

Item	CPN.	Description	Qty.	Spec.	51
1	90141078	Screw	2	TE M8X25 8G UNI 5739	
2	10574622	Lockwasher	2	D.8 Znt	
3	10574556	Washer	2	D.8 UNI 6592 Znt	
4	10574846	Adapter, Reducer	7		
6	10573723	Manifold, 3 hole	1		
7	10572758	Hose Assembly (14 BS)	1		
7	10572766	Hose Assembly (18 BS)	1		
8	10572758	Hose Assembly (14 BS)	1		
8	10572766	Hose Assembly (18 BS)	1		
9	10572972	Hose Assembly	1		
10	10572964	Hose Assembly	1		
11	10574879	Adapter	5		
13	10574853	Adapter, Reducer	1		
15	10572543	Flange, including hardware (used with 93454015)	1		
15	10572535	Flange, including hardware (used with 93454485)	1		
16	93454015	<b>Motor, Vibration</b> (S/N. 14251 - 14254)	2	Casappa	
16	93454485	<b>Motor, Vibration</b> (Eff. 14255)	2	Sauer mk.2	
17	10572535	Flange, including hardware (used with 93454015)	1		
17	10572535	Flange, including hardware (used with 93454485)	1		
20	10575413	Hose Assembly	1		
21	10575421	Hose Assembly	1		
22	10574358	Screw	4	TSCE M6X25 10K UNI	
23	10574556	Washer	4	D.8 UNI 6592 Znt	
24	10574465	Nut	4	M8x1 DIN 982	
25	10574127	<b>Oil Cooler Assembly</b> (includes following items)	1		
-	10574200	- Motor, Fan	1		
-	10574218	- Fan	1		
-	10575397	Shroud, Fan	1		
-	10575405	Oil cooler	1		
26	10572949	Hose Assembly	1		
27	10574739	Adapter	2		
28	10572691	Hose Assembly	1		
29	10573046	Hose Assembly	1		
30	10572469	Return Drain Manifold	1		
31	93464519	Oil Filter, Return	1		
32	10572741	Hose Assembly	1		
33	10572733	Hose Assembly	1		
34	10574911	Adapter	2		
35	10572717	Hose Assembly	1		
36	92421411	Screw	2	TCCE M8X25 8G UNI	
37	10574622	Lockwasher	2	D.8 Znt	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



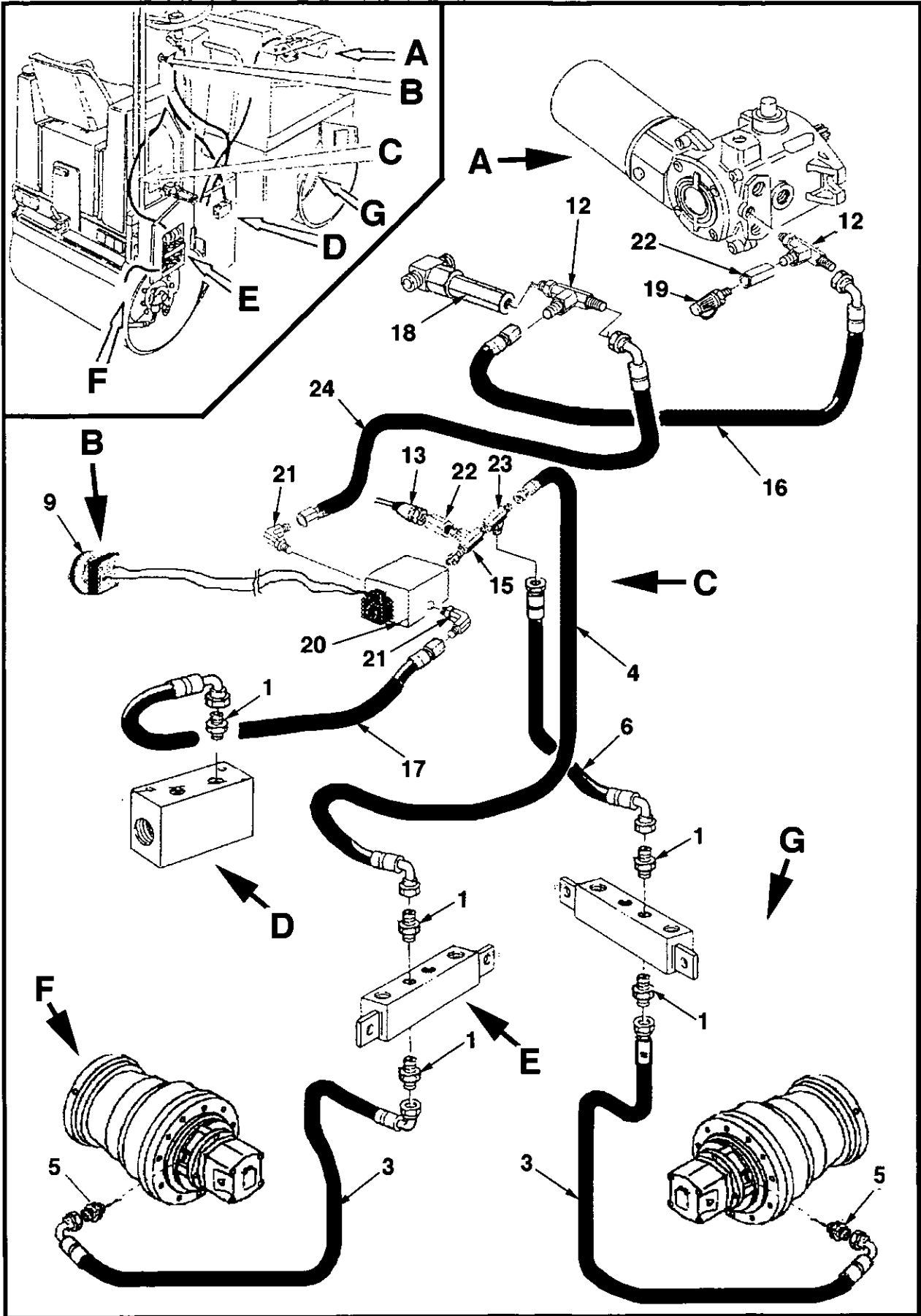
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**BRAKE SYSTEM HOSE INSTALLATION**  
(Prior S/N. 14328 14 BS/BV, 18208 18BS/BV)

TAV. 16.1

Item	CPN.	Description	Qty.	Spec.
1	10574820	Adapter	7	
3	10573004	Hose Assembly (18 BV)	2	
3	10573038	Hose Assembly (14 BV)	2	
4	10572733	Hose Assembly	1	
6	10572782	Hose Assembly	1	
9	10572196	Button Switch, Emergency Stop	1	
10	10574622	Lockwasher	1	
11	10574408	Nut	2	
12	10574754	Adapter	2	
13	93453991	Pressure Switch	1	
14	10573640	Seal	1	
15	10574754	Adapter	1	
16	10572774	Hose Assembly	1	
17	10572725	Hose Assembly	1	
18	10572485	Extension	1	
19	10574176	Test Point Fitting	1	
20	10572170	Brake Valve	1	
21	10574762	Adapter	2	
22	10572477	Extension	2	
23	10574721	Adapter	1	
24	10572782	Hose Assembly	1	

## PARTS MANUAL

### 14BS/BV & 18 BS/BV Series



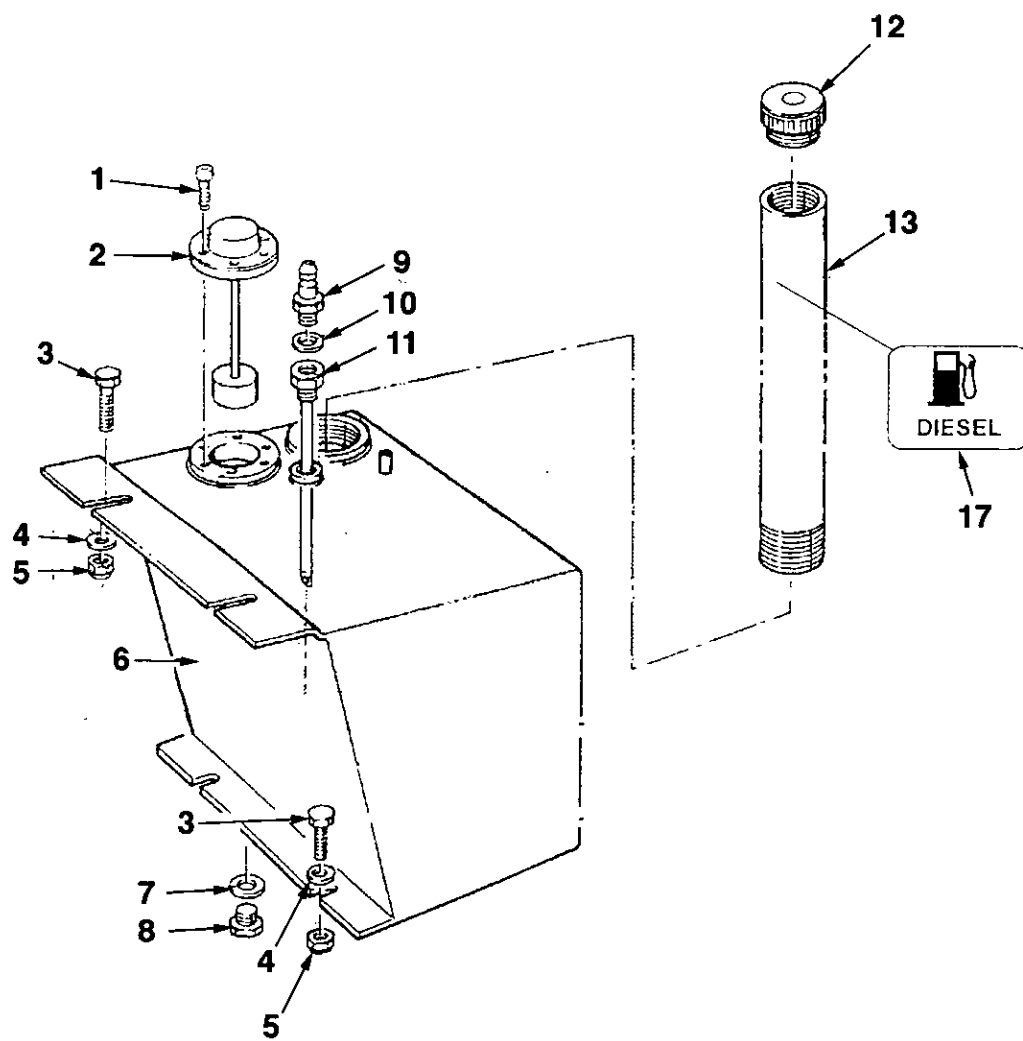
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**BRAKE SYSTEM HOSE INSTALLATION**  
(Effective w. S/N. 14328 14BS/BV, 18208 18BS/BV)

TAV. 16.1 R1

Item	CPN.	Description	Qty.	Spec.
1	10574820	Adapter	5	
3	10572857	Hose Assembly (18 BV)	2	
3	10572865	Hose Assembly (14 BV)	2	
4	10572733	Hose Assembly	1	
5	10575140	Adaptor	2	
6	10572782	Hose Assembly	1	
9	10572196	Button Switch, Emergency Stop	1	
10	10574614	Lockwasher	1	
11	10574408	Nut	2	
12	10574754	Adapter	2	
13	93453991	Pressure Switch	1	
14	10573640	Seal	1	
15	10574754	Adapter	1	
16	10572774	Hose Assembly	1	
17	10572725	Hose Assembly	1	
18	10572485	Extension	1	
19	10574176	Test Point Fitting	1	
20	10572170	Brake Valve	1	
21	10574762	Adapter	2	
22	10572477	Extension	2	
23	10574721	Adapter	1	
24	10572782	Hose Assembly	1	



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

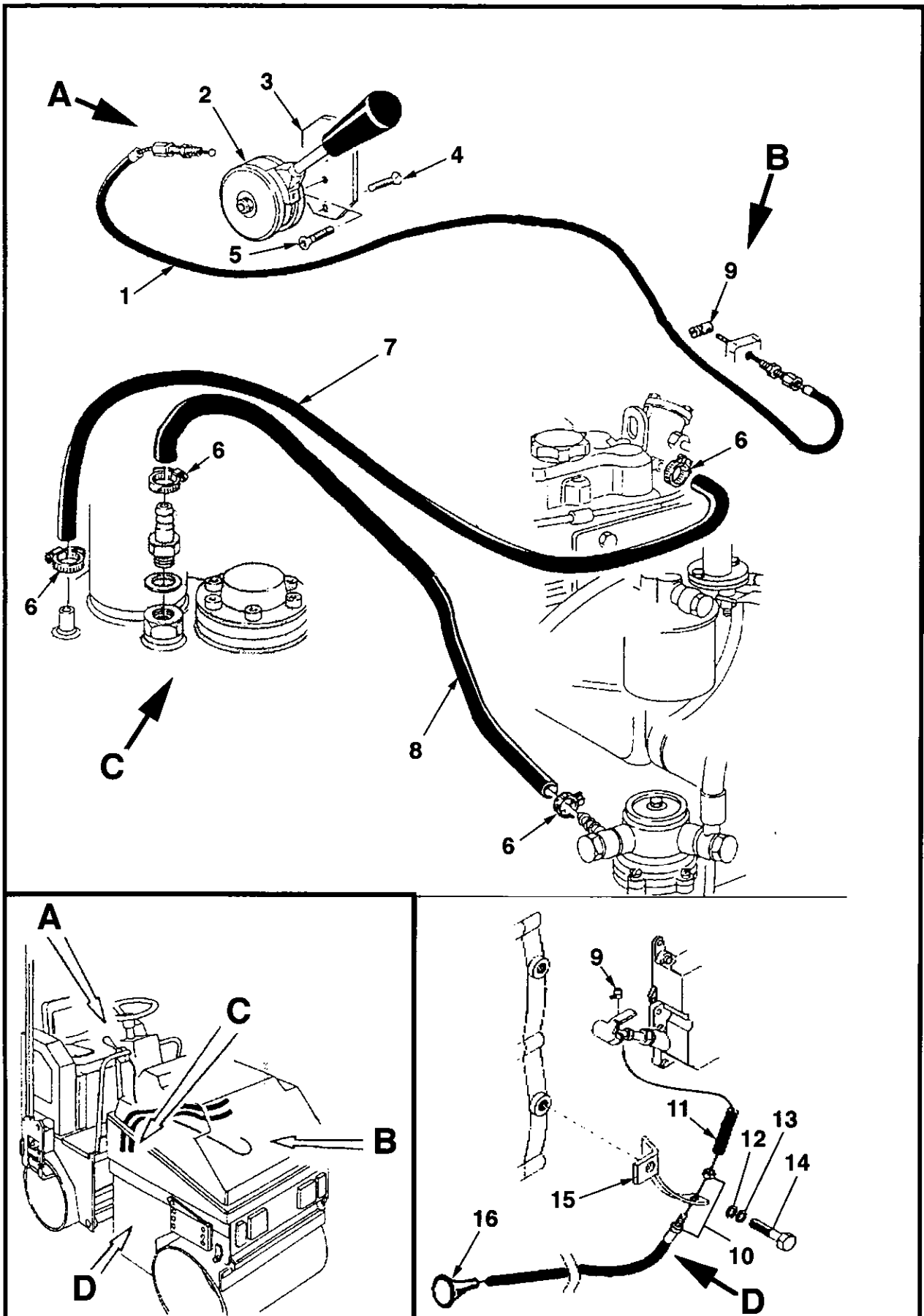


**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**FUEL TANK INSTALLATION**

TAV. 17.1

Item	CPN.	Description	Qty.	Spec.
1	10576429	Screw	6	
2	10575579	Float	1	
3	92280981	Screw	4	
4	93463131	Washer	4	
5	10574473	Nut	4	
6	10572576	Fuel Tank	1	
7	10573657	Seal	1	
8	10573491	Plug	1	
9	10574994	Adapter	1	
10	10573699	Seal	1	
11	10574010	Suction Pipe	1	
12	93454049	Filler Cap, Fuel	1	
13	10572493	Extension Pipe	1	
17	58978214	Decal - Diesel	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



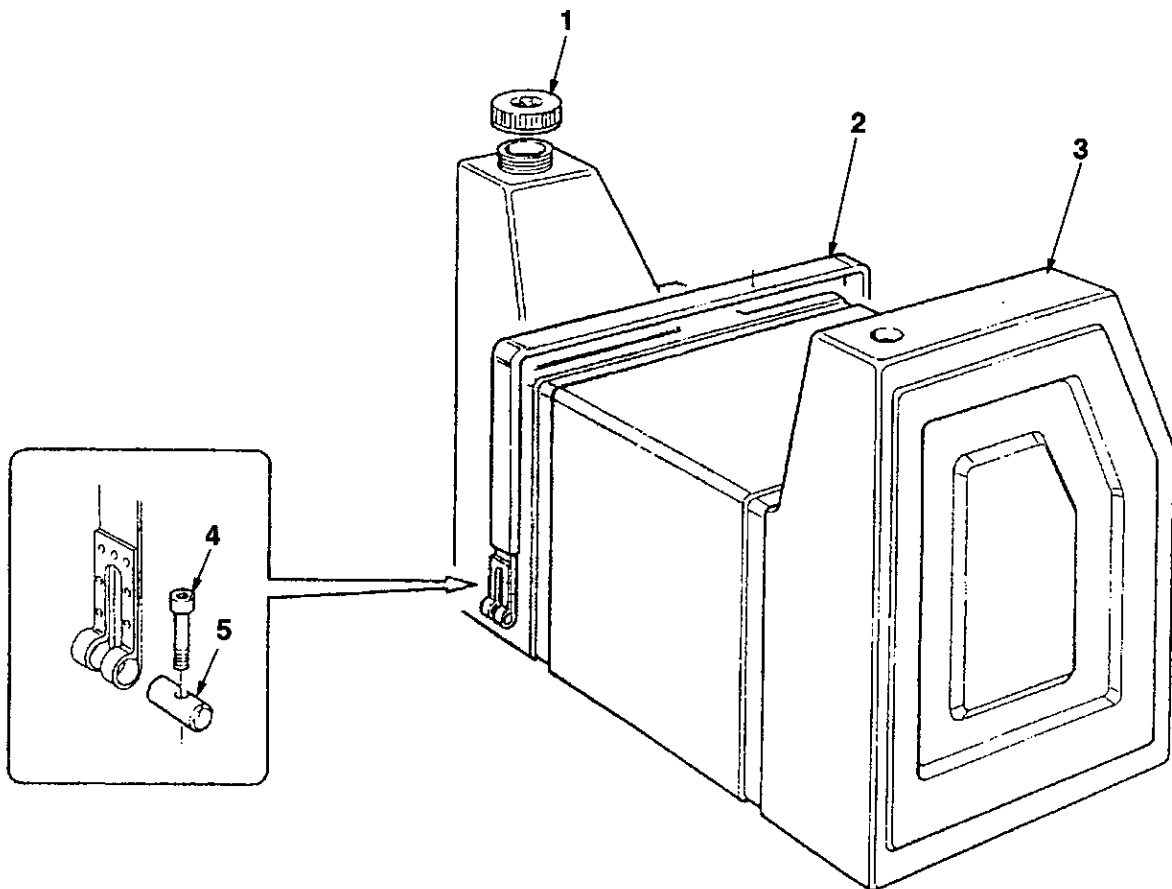
**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

**FUEL HOSEING & ENGINE SPEED CONTROL CABLE INSTALLATION**

TAV-18.1

Item	CPN.	Description	Qty.	Spec.
1	93454163	Cable, Engine Speed	1	
2	10573103	Lever Assembly, Engine Speed	1	
3	10573301	Mounting Bracket	1	
4	10574366	Screw	2	
5	10574317	Screw	2	
6	10573129	Jubilee Clip	4	
7	10573087	Hose Assembly	1	
8	10573095	Hose Assembly	1	
9	10572279	Clamp	1	
10	10574150	Cable mounting hardware	1	
11	10573616	Spring	1	
12	10574556	Washer	1	
13	10574622	Lockwasher	1	
14	10574325	Screw	1	
15	10573624	Bracket, Cable mounting	1	
16	10574317	Cable, Cold Start	1	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

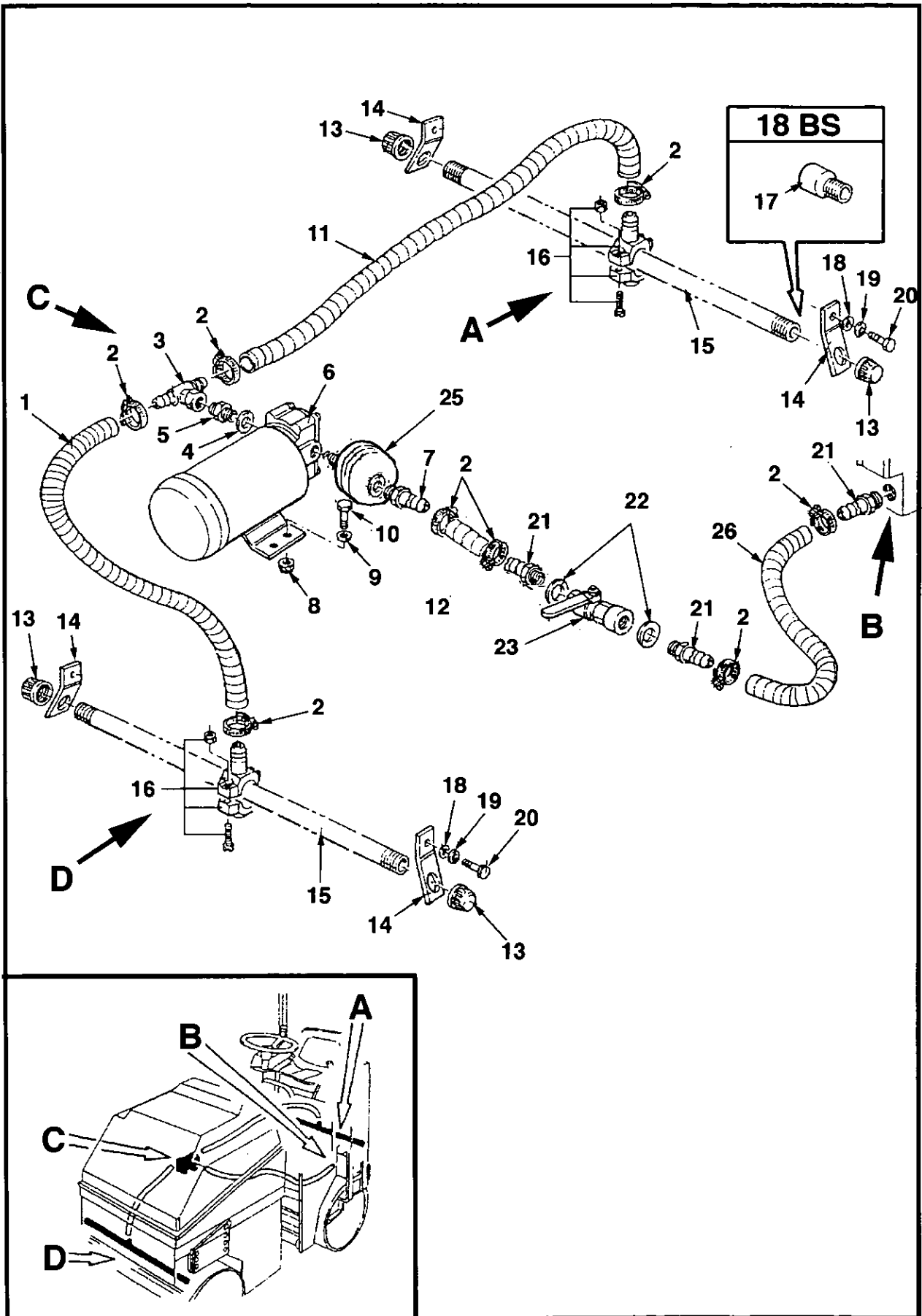


**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**  
**WATER TANK INSTALLATION**

TAV. 19.1

Item	CPN.	Description	Qty.	Spec.
1	10572519	Filler Cap, Water	2	
2	10573988	Strap	2	
3	10574101	Water Tank	1	
4	92475276	Screw	4	
5	10573459	Pin	4	

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**

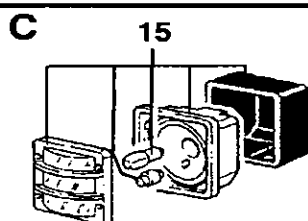
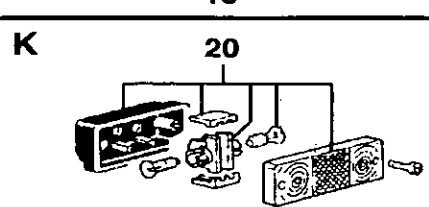
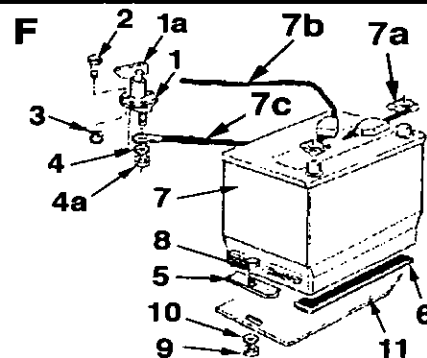
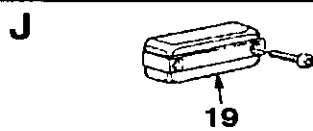
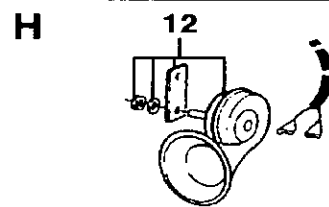
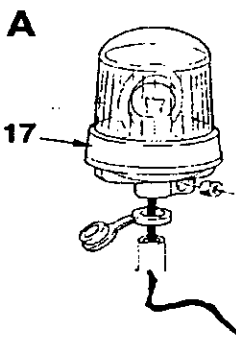
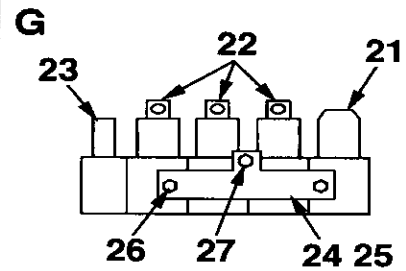
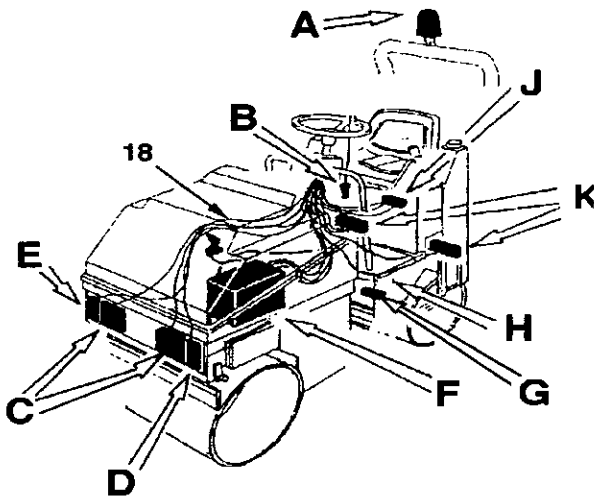
**WATER SPRAY BAR & PUMP INSTALLATION**

TAV. 20.1

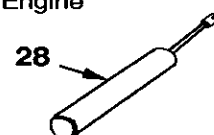
Item	CPN.	Description	Qty.	Spec.
1	10572659	Hose	1	
2	10573137	Hose Clamp	6	
3	10574713	Adapter	1	
4	10573681	Seal	1	
5	10574770	Adapter	1	
6	93453983	Water Pump Assembly	1	
NI	10575033	- Gear Set	1	
7	10573178	Hose Fitting	1	
8	10574457	Nut	2	
9	10574549	Washer	2	
10	92304484	Screw	2	
11	10572659	Hose	1	
12	10572659	Hose	1	
13	10573509	Plug	4	
14	10573293	Mounting Bracket	4	
15	93454031	Spray Bar	2	
16	93454023	Fitting Kit	2	
17	93463768	Extension (18 BV)	4	
18	93463131	Washer	4	
19	10574648	Lockwasher	4	
20	96705967	Screw	4	
21	10573160	Hose Fitting	3	
22	10573657	Seal	2	
23	10572097	Ball Valve	1	
24	10574788	Adapter	1	
25	10575025	Filter, In-line	1	
26	10572659	Hose	1	



**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



Mounted on Engine Assembly



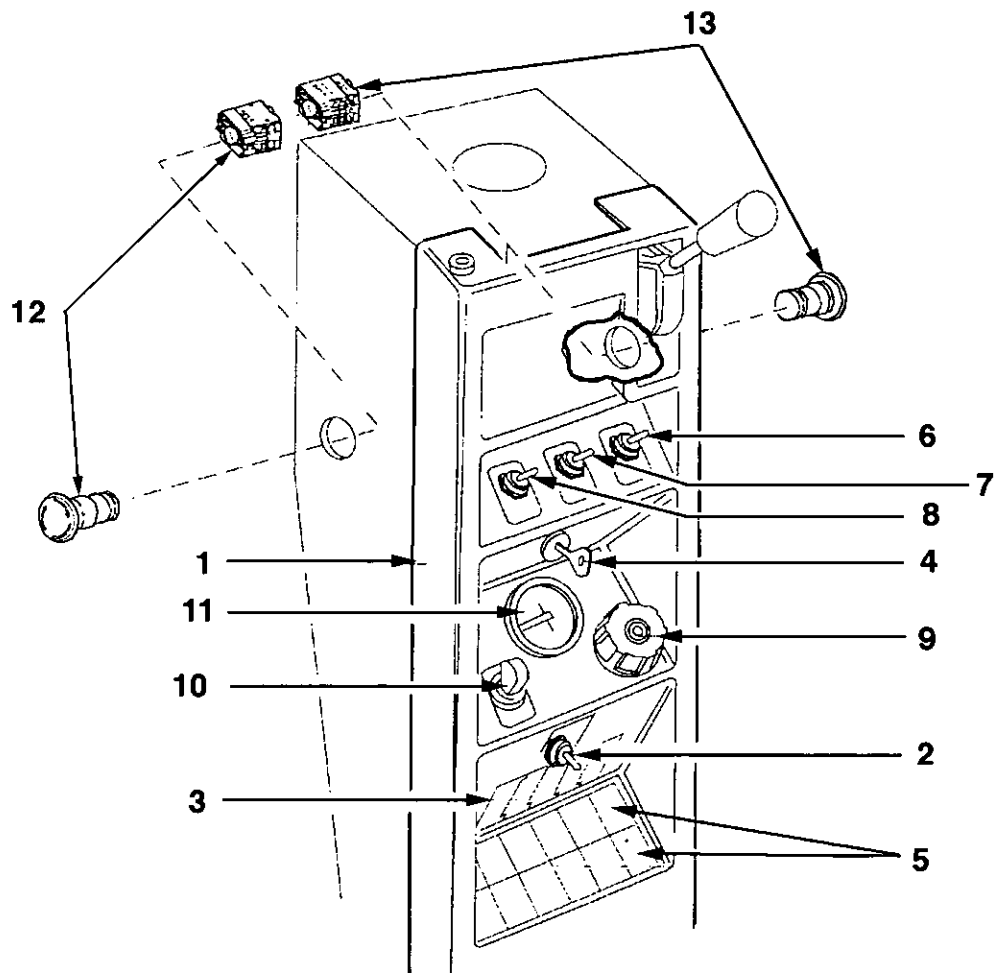
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**

**ELECTRICAL COMPONENT INSTALLATION**

TAV.21.1

Item	CPN.	Description	Qty.	Spec.
1	93462117	<b>Isolator Switch, Battery (includes Key 1a)</b>	1	
1a	10575371	- Key, Isolator Switch	1	
2	10575009	Screw	2	
3	10574457	Nut	2	
4	10574556	Washer	1	
4a	10574465	Nut	2	
5	10572303	Clamp, Battery Hold-down	1	
6	10573566	Rubber Pad	2	
7	10572105	Battery	1	
7a	10575793	Cable, Negative	1	
7b	10575827	Cable, Positive (Battery)	1	
7c	10575835	Cable, Positive (Switch)	1	
8	10574945	Screw	2	
9	10574382	Nut	2	
10	10574556	Washer	2	
11	10573285	Mounting Bracket	1	
12	10572642	Horn	1	
13	93454072	Direction Indicator LH	1	
14	93454080	Direction Indicator RH	1	
15	93454064	Headlight Assembly	2	
16	10573822	Socket	1	
17	93454114	Beacon Assembly	1	
18	10574044	Wiring Harness	1	
19	93454106	Light, Number Plate	1	
20	93454098	Light Cluster, Rear	2	
21	10575322	Relay, Turn Direction Light	1	
22	10575330	Relay	3	
23	93461838	Main Fuse	1	
24	10575348	Mounting Plate, Front	1	
25	10575355	Mounting Plate, Rear	1	
26	10574341	Screw	2	M6x50
27	10574457	Nut	1	M6
28	93453967	Engine Shutdown Solenoid (Electro-stop)	1	Lom.3586-041

**PARTS MANUAL**  
**14BS/BV & 18 BS/BV Series**



**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**INSTRUMENT PANEL INSTALLATION**

TAV. 22.1

Item	CPN.	Description	Qty.	Spec.
1	10573228	Instrument Panel	1	
2	93454122	Switch, Drum Offset	1	
3	10572584	Fuse Box ( <i>includes listed fuses</i> )	1	
-		- 10A Fuse	6	
-		- 15A Fuse	5	
-		- 25A Fuse	1	
4	93454130	Ignition/Start Switch ( <i>includes item 4a</i> )	1	
4a	10575363	- Key	1	
5	10573392	Panel, Indicator Lights	1	
6	10573343	Switch, Beacon	1	
7	10573244	Switch, Water Spray	1	
8	88095161	Switch, Hazard Warning	1	
9	10574028	Switch, Lights/Horn	1	
10	10574036	Switch, Direction Indicator	1	
11	93454148	Hourmeter	1	
12	88107503	Switch, Emergency Stop/Parking Brake (RED)	1	
13	10575389	Switch, Parking Brake (BLACK)		
		<u>Note:</u> <i>Earlier units are fitted only with item 12.</i> <i>Later units with item 13 have item 12 as Emergency Stop</i>		

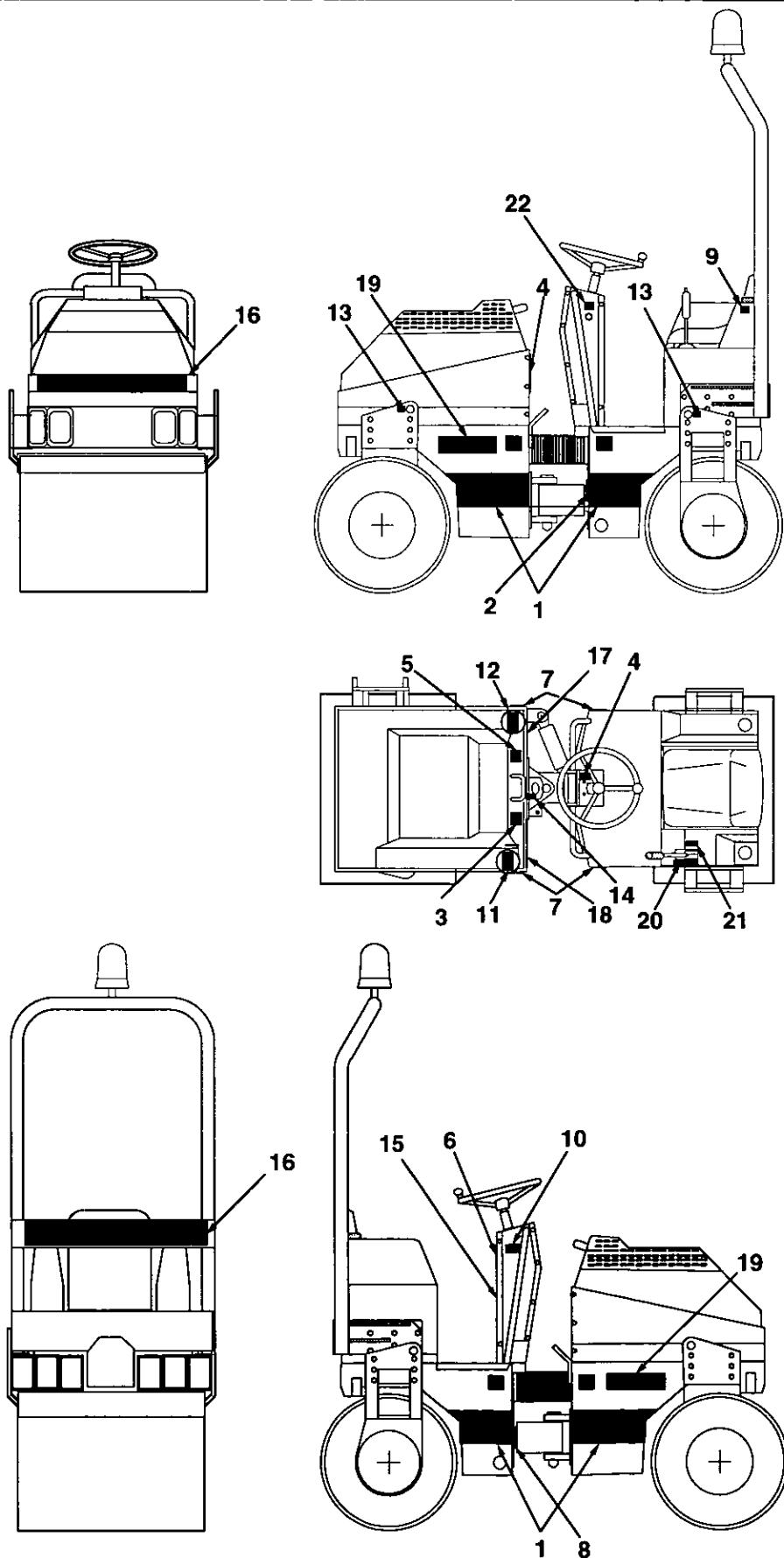
**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**

**COVERS & ROPS/SEAT BELT INSTALLATION**

TAV. 23.1

Item	CPN.	Description	Qty.	Spec.
1	10573558	ROPS Bar	1	
NI	10573731	Seat Belt Assembly ( <i>Refer page A.4.3</i> )	1	
3	10574085	Vandal Cover	1	
5	10575652	Washer	2	
6	10574986	Knob	1	
7	10572600	Grill, Protection	1	
8	10576379	Screw	10	
9	92329341	Washer	10	
10	10574655	Lockwasher	10	
11	10572378	Cushion Sleeve	2	
12	10573111	Hose Clamp	6	
13	10573889	Spacer	4	
14	10574564	Washer	4	
15	10574341	Screw	4	

# **PARTS MANUAL** **14BS/BV & 18 BS/BV Series**



**PARTS MANUAL**  
**14 BS/BV & 18 BS/BV Series**  
**DECAL INSTALLATION**

TAV. 24.1

Item	CPN.	Description	Qty.	Spec.
-	10576460	Decal Installation Kit, <i>comprises of the following:</i>		
1	10575157	Decal - 6" wide stripe	255	
2	59006189	Decal - Water Spray	1	
3	58978263	Decal - Maintenance	1	
4	58978271	Decal - Read Instruction Manual	1	
5	58978206	Decal - Warning - Roll over	1	
6	10576015	Decal - Engine Speed Control	1	
7	58918947	Decal - Warning - Crush zone	2	
8	59605915	Decal - Grease point	1	
9	58905662	Decal - Water	1	
10	10575959	Decal - Parking Brake ON/OFF	1	
11	58978222	Decal - Hydraulic oil	1	
12	58978214	Decal - Diesel Fuel	1	
13	58978289	Decal - Tie down	4	
14	58992603	Decal - Lift point	1	
15	59006205	Decal - Ignition Switch controls	1	
16	10575199	Decal - Ingersoll-Rand logo	2	
17	10575082	Decal - Checklist, Operating Instructions	1	
18	10575116	Decal - Maintenance Chart	1	
19	10574994	Decal - 14 BS	2	
-	10575124	Decal - 14 BV	2	
-	10575611	Decal - 18 BS	2	
-	10575629	Decal - 18 BV	2	
20	10575637	Decal - Forward/STOP/Reverse Control	1	
21	10575645	Decal - Vibration Control	1	
22	10575843	Decal - Emergency Stop/Brake	1	

CPN	PAGE	ITEM	CPN	PAGE	ITEM	CPN	PAGE	ITEM
10572097	F.2.3	23	10572436	A.1.3	12	10572709	A.1.3	39
10572105	G.1.3	7		A.3.3	5	10572717	D.3.3	3
10572113	A.5.3	15		B.1.3	1		D.3.3	4
10572121	A.5.3	11	10572444	A.1.3	5		D.6.5	35
10572139	D.5.5	15		A.3.3	8	10572725	D.7.3	17
	D.5.9	15		B.1.3	23		D.7.5	17
10572147	A.5.3	6	10572451	B.1.3	11	10572733	D.6.3	33
10572154	A.4.3	8		C.2.3	20		D.6.5	33
10572162	C.1.3	28	10572469	D.1.3	16		D.7.3	4
10572170	D.7.3	20		D.6.3	30		D.7.5	4
	D.7.5	20		D.6.5	30	10572741	D.5.3	11
10572188	A.5.3	8	10572477	D.7.3	22		D.5.7	11
10572196	D.7.3	9		D.7.5	22		D.5.11	11
	D.7.5	9	10572485	D.7.3	18		D.5.13	11
10572204	A.2.3	15		D.7.5	18		D.6.3	32
10572212	A.2.3	3	10572493	E.1.3	13		D.6.5	32
10572220	A.2.3	26	10572501	B.1.3	21	10572758	D.6.3	7
10572238	A.2.3	8	10572519	F.1.3	1		D.6.3	8
10572246	A.4.3	5	10572527	B.1.3	6		D.6.3	35
10572253	B.1.3	17	10572535	D.6.3	15		D.6.5	7
10572261	B.1.3	28		D.6.3	17		D.6.5	8
10572279	E.2.3	9		D.6.3	17	10572766	D.6.3	7
10572287	A.2.3	19		D.6.5	15		D.6.3	8
10572295	D.5.3	6		D.6.5	17		D.6.5	7
	D.5.7	6		D.6.5	17		D.6.5	8
	D.5.11	6	10572543	D.6.3	15	10572774	D.7.3	16
	D.5.13	6		D.6.5	15		D.7.5	16
10572303	G.1.3	5	10572550	B.1.3	31	10572782	D.7.3	6
10572311	A.2.3	1	10572568	A.4.3	11		D.7.3	24
10572329	A.5.3	29	10572576	E.1.3	6		D.7.5	6
10572337	A.3.5	2	10572584	G.2.3	3		D.7.5	24
	A.5.3	5	10572592	A.5.3	28	10572790	D.5.3	12
10572345	A.1.3	17	10572600	H.1.3	7		D.5.7	12
	A.3.3	9	10572618	A.2.3	27		D.5.11	12
10572352	A.3.3	14	10572626	D.5.3	5	10572808	D.2.3	5
10572360	A.1.3	23		D.5.7	5		D.5.7	22
10572378	H.1.3	11		D.5.11	5		D.5.9	4
10572386	A.1.3	11		D.5.13	5		D.5.13	22
10572394	B.1.3	12	10572634	A.2.3	6	10572816	D.5.7	20
	B.1.5	7	10572642	G.1.3	12		D.5.7	21
	B.1.7	14	10572659	F.2.3	1		D.5.9	5
10572402	B.1.3	12		F.2.3	11		D.5.9	6
	B.1.5	7		F.2.3	12		D.5.13	20
	B.1.7	14		F.2.3	26		D.5.13	21
10572410	A.1.3	12	10572667	D.2.3	6	10572824	C.2.3	23
	A.3.3	5	10572675	D.2.3	4		J.1.3	19
	B.1.3	1a	10572683	D.5.5	10	10572832	D.5.7	22
10572428	A.1.3	5		D.5.9	10		D.5.9	4
	A.3.3	8	10572691	D.6.3	28		D.5.13	22
	B.1.3	23a		D.6.5	28	10572840	D.5.7	20



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	D.5.7	21	10573095	E.2.3	8	10573582	A.1.3	27
	D.5.9	5	10573103	E.2.3	2	10573590	A.3.5	15
	D.5.9	6	10573111	H.1.3	12	10573608	A.1.3	28
	D.5.13	20	10573129	D.1.3	6	10573616	E.2.3	11
	D.5.13	21		E.2.3	6	10573624	E.2.3	15
10572857	D.7.5	3	10573137	F.2.3	2	10573632	A.1.3	24
10572865	D.7.5	3	10573145	C.2.3	7	10573640	D.7.3	14
10572873	D.4.3	9	10573152	C.2.3	16		D.7.5	14
10572881	D.1.3	5	10573160	F.2.3	21	10573657	D.5.3	3
10572899	D.1.3	13	10573178	F.2.3	7		D.5.3	13
10572907	D.5.5	6	10573186	C.2.3	6		D.5.5	1
10572915	D.5.3	20	10573194	A.2.3	11		D.5.7	3
	D.5.3	21	10573202	B.1.3	22		D.5.7	13
	D.5.5	12	10573210	D.2.3	21		D.5.9	1
	D.5.9	12	10573228	G.2.3	1		D.5.11	3
	D.5.11	20	10573236	A.1.3	7		D.5.11	13
	D.5.11	21	10573244	G.2.3	6		D.5.13	3
10572923	D.1.3	12	10573251	D.4.3	8		D.5.13	13
10572931	D.5.5	11	10573269	C.1.3	13		E.1.3	7
	D.5.9	11	10573277	D.2.3	16		F.2.3	22
10572949	D.1.3	15	10573285	G.1.3	11	10573665	A.1.3	22
	D.6.3	26	10573293	F.2.3	14		D.1.3	9
	D.6.5	26	10573301	E.2.3	3		D.4.3	4
10572956	D.4.3	10	10573319	C.1.3	4	10573673	D.5.3	2
10572964	D.6.3	10	10573327	C.1.3	7		D.5.7	2
	D.6.5	10	10573335	C.2.3	10		D.5.11	2
10572972	D.6.3	9	10573343	G.2.3	8		D.5.13	2
	D.6.5	9	10573350	A.3.5	1	10573681	A.1.3	14
10572980	D.5.5	5	10573368	C.2.3	19		F.2.3	4
	D.5.5	6	10573376	A.5.3	19	10573699	E.1.3	10
10572998	D.5.3	22	10573384	A.5.3	25	10573707	C.2.3	5
	D.5.5	4	10573392	G.2.3	5	10573715	A.2.3	7
	D.5.11	22	10573400	A.2.3	2	10573723	D.6.3	6
10573004	D.7.3	3	10573418	A.5.3	1		D.6.5	6
10573012	D.5.3	20	10573426	A.5.3	30	10573731	A.4.3	13
	D.5.3	21	10573434	A.5.3	20		H.1.3	NI
	D.5.5	5	10573442	A.3.5	3	10573749	A.2.3	16
	D.5.11	20	10573459	F.1.3	5	10573756	A.5.3	26
	D.5.11	21	10573467	A.1.3	10	10573764	B.1.3	26
10573020	D.5.3	22	10573475	B.1.3	36	10573772	C.2.3	3
	D.5.5	4	10573483	A.1.3	36	10573780	A.2.3	23
	D.5.11	22	10573491	E.1.3	8	10573798	A.2.3	20
10573038	D.7.3	3	10573509	F.2.3	13	10573806	C.1.3	14
10573046	D.6.3	29	10573517	A.1.3	21	10573814	C.2.3	17
	D.6.5	29	10573525	D.2.3	9	10573822	G.1.3	16
10573053	D.5.3	15	10573533	D.2.3	20	10573830	A.1.3	4
	D.5.7	15	10573541	A.5.3	27		C.1.3	23
10573061	D.2.3	3	10573558	H.1.3	1	10573848	B.1.3	18
10573079	D.2.3	2	10573566	G.1.3	6	10573855	A.5.3	17
10573087	E.2.3	7	10573574	A.1.3	27	10573863	A.5.3	12

CPN	PAGE	ITEM	CPN	PAGE	ITEM	CPN	PAGE	ITEM
10573871	A.5.3	18		B.1.7	1		B.1.5	4
10573889	H.1.3	13	10574234	B.1.3	4b	10574499	A.5.3	7
10573897	A.1.3	6		B.1.7	8	10574507	A.5.3	10
	A.3.3	6	10574242	B.1.3	6	10574515	A.5.3	3
10573905	C.1.3	8	10574267	A.1.3	43	10574523	B.1.3	8
10573913	A.1.3	6	10574275	A.1.3	12	10574531	A.2.3	10
	A.3.3	6		A.3.3	5	10574549	A.2.3	18
10573921	A.1.3	34		B.1.3	1b		A.2.3	22
10573939	D.2.3	17	10574283	A.1.3	12		A.2.3	25
10573947	D.3.3	7		A.3.3	5		A.4.3	7
10573954	D.2.3	23		B.1.3	1ab		F.2.3	9
10573962	D.2.3	12	10574317	E.2.3	5	10574556	A.1.3	13
10573977	A.1.3	5		E.2.3	16		A.1.3	18
	B.1.5	16	10574325	A.4.3	2		A.2.3	5
10573988	F.1.3	2	10574333	A.2.3	14		A.3.5	13
10573996	A.1.3	26		C.2.3	1		A.5.3	21
	A.3.5	16	10574341	G.1.3	26		C.1.3	33
10574002	A.2.3	28		H.1.3	15		D.2.3	26
10574010	E.1.3	11	10574358	D.6.3	22		D.5.3	18
10574028	G.2.3	9		D.6.5	22		D.5.5	19
10574036	G.2.3	10	10574366	E.2.3	4		D.5.7	18
10574044	G.1.3	18	10574374	C.3.3	7		D.5.9	19
10574051	A.5.3	16	10574382	C.3.3	8		D.5.11	18
10574069	A.4.3	12		G.1.3	9		D.5.13	18
10574077	A.3.5	5	10574390	C.1.3	9		D.6.3	3
10574085	H.1.3	3	10574408	D.7.3	11		D.6.3	23
10574093	A.3.3	7		D.7.5	11		D.6.5	3
10574101	F.1.3	3	10574416	A.5.3	24		D.6.5	23
10574119	D.5.3	16	10574424	C.1.3	16		E.2.3	12
	D.5.5	20	10574432	D.2.3	10		G.1.3	4a
	D.5.7	16	10574440	A.2.3	9		G.1.3	10
	D.5.9	20	10574457	C.2.3	4	10574564	A.2.3	13
	D.5.11	16		D.5.3	7		A.4.3	1
	D.5.13	16		D.5.7	7		C.2.3	2
10574127	D.6.3	25		D.5.11	7		H.1.3	14
	D.6.5	25		D.5.13	7	10574572	D.2.3	11
10574135	C.1.3	3		F.2.3	8	10574580	A.4.3	10
10574143	A.1.3	25		G.1.3	3	10574598	A.1.3	16a
	A.3.5	17		G.1.3	27		A.3.3	10
10574150	E.2.3	10	10574465	A.1.3	37		C.1.3	36
10574168	D.4.3	1		A.3.5	12	10574606	A.1.3	31
10574176	D.7.3	19		D.6.3	24		A.3.5	10
	D.7.5	19		D.6.5	24	10574614	C.3.3	6
10574184	D.4.3	7		G.1.3	4		D.7.3	10
10574192	D.4.3	6	10574473	A.1.3	29		D.7.5	10
10574200	D.6.3	-		A.3.5	4	10574622	B.1.3	33
	D.6.5	-		A.3.5	8		B.1.5	12
10574218	D.6.3	-		E.1.3	5		B.1.5	14
	D.6.5	-	10574481	A.3.3	15		B.1.7	17
10574226	B.1.3	4a		B.1.3	5		C.1.3	11

CPN	PAGE	ITEM	CPN	PAGE	ITEM	CPN	PAGE	ITEM
	C.1.3	18		D.7.3	15		D.5.9	2
	C.1.3	32		D.7.5	12		D.5.11	8
	C.2.3	8		D.7.5	15		D.5.13	8
	D.1.3	7	10574762	D.5.5	21	10574903	D.5.3	9
	D.1.3	17		D.5.9	21		D.5.5	3
	D.2.3	25		D.7.3	21		D.5.7	9
	D.5.3	19		D.7.5	21		D.5.9	3
	D.5.5	18	10574770	F.2.3	5		D.5.11	9
	D.5.7	19	10574788	F.2.3	24		D.5.13	9
	D.5.9	18	10574796	D.4.3	5	10574911	D.6.3	34
	D.5.11	19	10574804	A.1.3	38		D.6.5	34
	D.5.13	19	10574812	D.5.3	23	10574929	C.1.3	31
	D.6.3	2		D.5.7	23	10574937	B.1.3	10
	D.6.3	37		D.5.11	23	10574945	G.1.3	8
	D.6.5	2		D.5.13	23	10574952	A.5.3	14
	D.6.5	37	10574820	D.2.3	1	10574960	A.5.3	4
	E.2.3	13		D.3.3	6	10574978	A.5.3	2
10574630	A.1.3	19		D.5.3	10	10574986	H.1.3	6
10574648	B.1.3	4d		D.5.7	10	10574994	J.1.3	19
	B.1.7	4		D.5.11	10	10575009	D.5.3	1
	C.1.3	2		D.5.13	10		D.5.7	1
	C.1.3	29		D.7.3	1		D.5.11	1
	C.1.3	35		D.7.5	1		D.5.13	1
	C.2.3	13	10574838	D.2.3	7		G.1.3	2
	D.2.3	14		D.2.3	19	10575025	F.2.3	25
	F.2.3	19		D.3.3	5	10575033	F.2.3	6a
10574655	A.1.3	3	10574846	D.6.3	4	10575041	A.4.3	3a
	A.3.3	2		D.6.5	4	10575058	A.4.3	3b
	B.1.3	3	10574853	D.6.3	13	10575066	A.4.3	3c
	H.1.3	9		D.6.5	13	10575074	A.4.3	3d
<b>4986</b>			10574861	D.1.3	1	10575082	J.1.3	17
10574663	C.1.3	22		D.4.3	3	10575090	D.5.13	12
10574671	C.1.3	15		D.5.3	14	10575108	D.5.11	15
10574689	D.1.3	14		D.5.5	13		D.5.13	15
10574697	E.1.3	9		D.5.7	14	10575124	J.1.3	19
10574705	D.1.3	8		D.5.9	13	10575132	B.1.5	15
10574713	F.2.3	3		D.5.11	14	10575140	D.7.5	5
10574721	D.5.7	27		D.5.13	14	10575165	C.1.3	39
	D.5.13	27	10574879	D.5.3	25	10575173	C.1.3	38
	D.7.3	23		D.5.5	7	10575181	A.1.5	41
	D.7.5	23		D.5.7	25	10575207	D.1.3	-
10574739	D.5.3	4		D.5.9	7	10575215	C.3.3	10
	D.5.7	4		D.5.11	25	10575223	C.3.3	11
	D.5.11	4		D.5.13	25	10575231	C.3.3	12
	D.5.13	4		D.6.3	11	10575249	C.3.3	13
	D.6.3	27		D.6.5	11	10575272	D.1.3	20
	D.6.5	27	10574887	A.1.3	15	10575280	D.1.3	21
10574747	D.5.7	26	10574895	D.5.3	8	10575298	D.1.3	22
	D.5.13	26		D.5.5	2	10575306	D.1.3	23
10574754	D.7.3	12		D.5.7	8	10575314	D.1.3	24

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10575322	G.1.3	21	10576452	A.1.3	9		C.2.3	14
10575330	G.1.3	22	35278977	A.3.3	12	92304443	B.1.3	2
10575348	G.1.3	24	39121355	A.5.3	23	92304484	F.2.3	10
10575355	G.1.3	25	39139266	A.1.3	33	92329309	A.1.3	32
10575363	G.2.3	4a	58905662	J.1.3	9		A.1.3	33
10575371	G.1.3	1a	58918947	J.1.3	7		A.3.5	11
10575389	G.2.3	13	58978206	J.1.3	5		C.1.3	34
10575397	D.6.3	-	58978214	E.1.3	17	92329341	A.3.3	3
	D.6.5	-		J.1.3	12		A.3.3	13
10575405	D.6.3	-	58978222	A.1.3	40		B.1.7	11
	D.6.5	-		J.1.3	11		B.1.7	13
10575413	D.6.3	20	58978263	J.1.3	3		H.1.3	9
	D.6.3	20	58978271	J.1.3	4	92340405	A.4.3	6
10575421	D.6.3	21	58978289	J.1.3	13	92421403	B.1.3	24
	D.6.3	21	58999608	J.1.3	10		B.1.3	32
10575439	B.1.7	9	58999624	J.1.3	6	92421411	D.1.3	4
10575447	B.1.5	5	59006189	J.1.3	2		D.6.3	36
	B.1.7	10	59006205	J.1.3	15		D.6.5	36
10575454	B.1.7	5	59605915	J.1.3	8	92421429	B.1.3	34
10575462	B.1.5	8	88095161	G.2.3	7		C.1.3	26
10575470	B.1.5	6	88107503	G.2.3	12	92463231	A.2.3	17
10575488	A.1.3	5	90141078	D.5.3	17		A.2.3	21
	B.1.7	7		D.5.5	17		A.2.3	24
10575496	A.1.3	5		D.5.7	17		C.2.3	22
	B.1.5	16		D.5.9	17	92472109	D.1.3	18
10575504	A.1.3	5		D.5.11	17	92472927	A.1.3	8
	B.1.7	7		D.5.13	17	92475276	F.1.3	4
10575511	B.1.7	15		D.6.3	1	92963370	A.5.3	9
10575520	B.1.5	9		D.6.5	1	93453686	B.1.3	20
10575538	B.1.5	3	92096031	C.3.3	5	93453694	B.1.3	13
10575546	B.1.5	10	92280981	A.1.3	16	93453702	B.1.3	27
10575553	B.1.7	6		A.3.3	11	93453710	B.1.3	16
10575561	B.1.5	2		A.3.5	6		B.1.3	19
	B.1.7	12		C.1.3	1	93453728	B.1.3	15
10575579	E.1.3	2		C.1.3	6	93453736	B.1.3	30
10575587	B.1.5	11		D.2.3	13	93453744	B.1.3	14
10575595	B.1.3	4c		E.1.3	3	93453751	B.1.3	7
	B.1.7	2	92304336	A.2.3	4		B.1.3	25
10575603	B.1.3	4e		E.2.3	14	93453769	B.1.3	4
	B.1.7	3	92304344	A.1.3	20		B.1.5	1
10575611	J.1.3	19		A.4.3	9	93453793	D.2.3	24
10575629	J.1.3	19		A.5.3	22	93453801	D.3.3	8
10575637	J.1.3	20		B.1.5	13	93453819	D.1.3	11
10575645	J.1.3	21		B.1.7	16	93453827	D.1.3	10
10575652	H.1.3	5	92304351	A.1.3	35	93453835	C.1.3	19
10576379	H.1.3	8		A.3.5	14	93453843	C.1.3	20
10576429	E.1.3	1		C.1.3	10	93453850	C.1.3	12
10576437	A.1.3	1	92304369	C.3.3	9	93453868	C.1.3	24
	A.3.3	4	92304401	C.1.3	5	93453876	C.1.3	25
10576445	D.2.3	22		C.1.3	30	93453884	C.1.3	27

CPN	PAGE	ITEM	CPN	PAGE	ITEM	CPN	PAGE	ITEM
93453918	C.2.3	11		D.6.3	31			
93453967	G.1.3	28		D.6.5	31			
93453975	A.1.3	25	96705835	C.3.3	4			
	A.3.5	17	96705967	F.2.3	20			
93453983	F.2.3	6	96706163	B.1.3	9			
93453991	D.7.3	13	96706197	C.1.3	21			
	D.7.5	13	96706395	A.5.3	13			
93454007	D.2.3	18	96708078	C.1.3	17			
93454015	B.1.3	29	96715271	A.2.3	12			
	D.6.3	16	96727482	A.1.3	2			
	D.6.5	16		A.3.3	1			
93454023	F.2.3	16	96727490	A.1.3	2			
93454031	F.2.3	15		A.3.3	1			
93454049	E.1.3	12	96727508	A.1.3	1			
93454056	C.1.3	37		A.3.3	4			
93454064	G.1.3	15	96727516	D.7.3	8			
93454072	G.1.3	13		D.7.5	8			
93454080	G.1.3	14	96727524	A.4.3	4			
93454098	G.1.3	20		C.2.3	9			
93454106	G.1.3	19						
93454114	G.1.3	17						
93454122	G.2.3	2						
93454130	G.2.3	4						
93454148	G.2.3	11						
93454155	C.3.3	2						
93454163	E.2.3	1						
93454171	C.3.3	1						
93454189	A.4.3	3						
93454197	C.3.3	3						
93454205	C.2.3	18						
93454485	B.1.3	29						
	D.6.3	16						
	D.6.5	16						
93461606	C.2.3	12						
93461838	G.1.3	23						
93462083	C.3.3	1a						
93462091	C.3.3	1b						
93462109	C.3.3	1c						
93462117	G.1.3	1						
93462182	C.2.3	15						
93463131	A.1.3	30						
	A.3.5	7						
	A.3.5	9						
	C.2.3	21						
	D.2.3	15						
	E.1.3	4						
	F.2.3	18						
93463768	F.2.3	17						
93464501	D.1.3	19						
93464519	D.1.3	3						