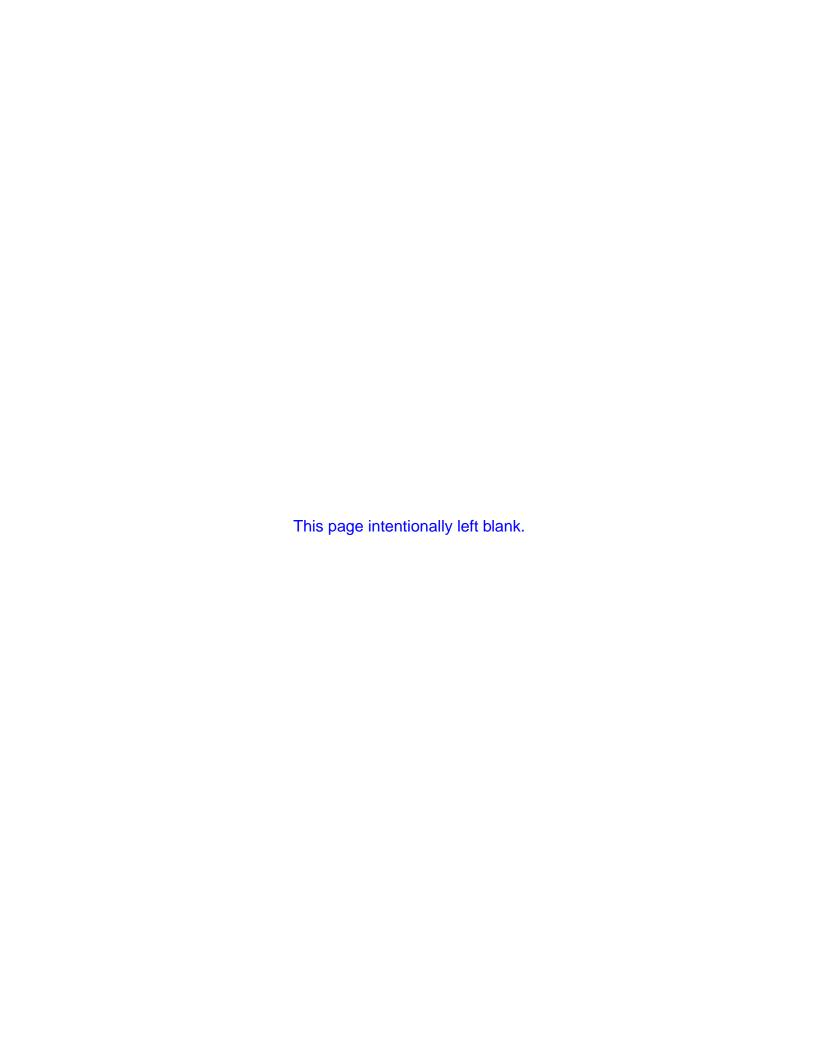
NOTICE

The information contained is for **DEALER REFERENCE PURPOSES ONLY**.

MANUALS ARE MODEL AND SERIAL NUMBER SPECIFIC.

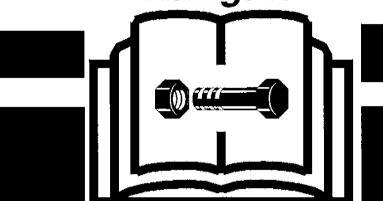
If additional printed manuals are required for your shop/office location, order by part number through the factory's Parts Center.

If a retail customer needs replacement manual(s) for a specific unit, contact the factory's Customer Data Center at: 800-829-0051 or customerdata@vermeermfg.com



Vermeer





Parts Manual

PMJN98-1 SERIAL NO. 101-ORDER NO. 105400-P95

INTRODUCTION

HOW TO USE THE MANUAL

This manual contains illustrations and parts lists of components and assemblies which make up the machine. Each page consists of the name of the assembly or component, a figure number, reference numbers, part numbers, part names, and the quantities of the parts used.

Assembly or component name helps identify the illustration and parts list for each figure. This name also helps locate the general area of the machine where the assembly or component can be located.

Figure numbers are used to identify each assembly or component and to group these assemblies or components into major categories.

Reference numbers shown in a column refers to the numbered parts in the illustration. This ties the part in the illustration to the part number and description in the parts list.

EN-OM-0222-AP92

Part numbers are used to identify individual parts or part assemblies.

Part descriptions provide the name of the part, plus additional information such as dimensional specifications and what parts are grouped together to form part assemblies, which helps you identify the part(s).

Quantities listed for each figure are only for that assembly or component and not the total used per machine.

Parts are listed by part number in numerical order in the back portion of the manual. After each part number is a list of references where the part is used in the manual.

This parts manual is not intended to be a complete guide for machine service or repairs. Contact your Vermeer dealer for any of your service or technical requirements.

ORDERING PARTS

Parts for repair or replacement are available through our network of authorized dealers located throughout the world.

Use only authorized Vermeer parts for repair or replacement. Always give the serial number EN-OM-0223-AP92

and model number of the machine for which parts are being ordered. When ordering parts for component(s), which are not manufactured by Vermeer Manufacturing, also give the serial number of that component(s). Order all parts by part number, part name, and quantity needed.

UPDATING AND REORDERING MANUALS

The parts lists, illustrations, and specifications in this manual are based on the latest information available at time of publication. Your machine may have product improvements and options not yet contained in this manual.

Vermeer Manufacturing Company reserves the right to make changes at any time without notice or obligation to you.

FN-OM 0224 AP92

Your dealer will receive notice of these changes and can assist you with accurate parts identification when ordering.

A copy of this manual is supplied with each machine. Additional copies are available through your dealer. When ordering additional manuals, use the reorder number listed on the front cover and the quantity needed.

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2411 Highway 102
Pella, Iowa 50219-0200

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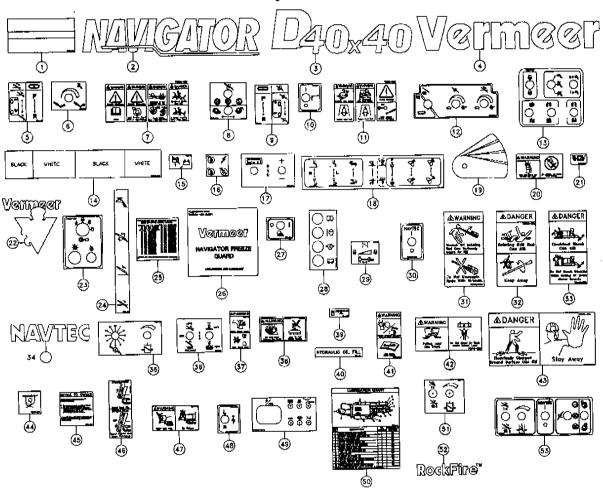
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DECAL ASSEMBLY - DOMESTIC

Revised August 2000 due to update of decals. Added part marked with *.

Figure 1-1



REF	. NO.	PART NÓ.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>ÒTY.</u>
1-1	1	70 000-775	DECAL 3'VERMEER STRIPE	21'	1-1	29	700IA-473	DECAL-THROTTLE (UG)	1
1-1	2	70000-614	DECAL-MODEL NAVIGATOR (BIG)	2	1-1	30	7000A-975	DECAL NAVTECH-ON/OFF (SN101-192)	1
		70000-615	DECAL-MODEL NAVIGATOR (SMALL)	1	1-1	31	7000A-394	DECAL - WARNING	1
1-1	3	7000A-883	DECAL-MODEL D40X40	2	1-1	32	7000A-393	DEÇAL - DANGER	1
1-1	4	2326-619	DECAL- VERMEER 3 X 15	1	1-1	33	7000A-392	DECAL - DANGER	5
		2326-595	DECAL VERMEER- 4 1/2 X 24	1	1-1	34	7000A-745	DECAL-NAVTEC	2
1-1	5	700IA-268	DECAL-DRILL FORCE RT (UND)	1	1-1	35	700IA-509	DECAL-STEER	1
1-1	6	700IA-262	DECAL - FLUID PRESSURE (UG)	1	1-1	3 6	7000A-510	DECAL-AUTO/MANUAL SWITCH	1
1-1	7	7000A-395	DECAL - WARNING	1	1-1	37	7000A-864	DECAL-WARNING DOMESTIC	2
1-1	8	700fA-808	DECAL-SEAT/DRILL COMBO (SN101-192)	1	1-1	38	2326-315	DECAL-WARNING	1
1-1	9	700IA-269	DECAL-DRILL ROTATION LT (UND)	1	1-1	39	2326-756	DECAL-HYDRAULIC OIL	1
1-1	10	700IA-807	DECAL-WASHWAND	1	1-1	40	7000A-814	DECAL-HYDRAULIC OIL FILLER	1
1-1	11	7000A-325	DECAL-WARNING	1	1-1	41	70000-044	DECAL-WARNING(AT/UND)	1
1-1	12	700IA-270	DECAL-SPEED VARIATION (UND)	1	1-1	42	70000-563	DECAL-WARNING (UND)	2
1-1	13	700IA-267	DECAL - ROD VISES (UG)	1	1-1	43	70000-530	DECAL-DANGER	4
1-1	14	700IA-997	DECAL-GEARBOX POSITION	1	1-1	44	70000-834	DECAL-TIÉ DOWN POINT	6
1-1	15	700iA-477	DECAL_BATTERY SWITCH (UG)	1	1-1	45	2326-940	DECAL-NOTICE TO OWNERS	1
1-1	16	700IA-260	DECAL-TEST (UND)	1	1-1	46	7000A-858	DECAL-TRANSPORT LOCK	1
1-1	17	7000A-508	DECAL-DISPLAY	1	1-1	47	7000A-863	DECAL-WARNING	1
1-1	18	700IA-401	DECAL -CONTROL BANK	1	1-1	48	700IA-966	DECAL-STAKE LEFT-RIGHT	1
1-1	19	700IA-624	DECAL-LOADER POSITION	1	1-1	49	700IA-771	DECAL-BREAKER LIGHTS	1
1-1	20	2326-324	DECAL-WARNING/REFUEL	1	1-1	50	7000B-182	DECAL-LUBE CHART	1
1-1	21	70000-098	DECAL-DIESEL (AT/UND)	1	1-1	51	700IB-226	DECAL-THRUST (SN176-192)	1
1-1	22	70000-939	DECAL-15' VERMEER LOGO	1	1-1	52	7000B-202	DECAL-ROCKFIRE (SN176-)	1
1-1	23	700IB-001	DECAL- IGNITION	1	1-1	53	*700IB-365	DECAL-WRAPPER RIGHT (REPLACES REF.	
1-1	24	700IA-265	DECAL - INSTRUMENTS (UG)	1				8, 30, 51) (\$N19-3)	1
1-1	25	7000B-119	DECAL- PATENT	1					
1-1	26	7000A-027	DECAL-NAVIGATOR FREEZE GUARD	1			901228-093	DECAL ASSYD40X40 (DOMESTIC)	
1-1	27	700IA-804	DECAL-WORK LIGHT	1				(INC. ALL ITEMS IN FIGURE)	

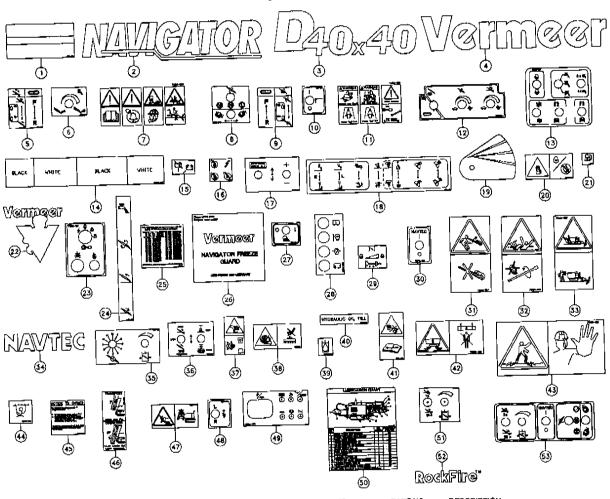
700IA-266 DECAL - CONTROL PANEL (UG)

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DECAL ASSEMBLY - INTERNATIONAL

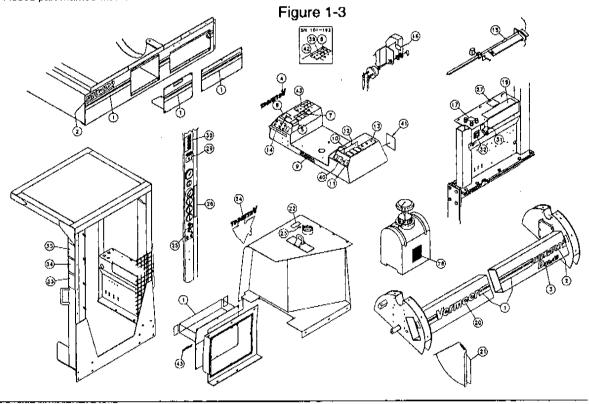
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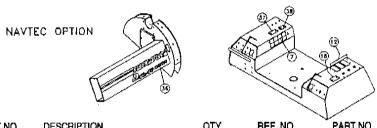


REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
1-2	1	70000-775	DECAL 3"VERMEER STRIPE	21'	1-2	28		DECAL - CONTROL PANEL (UG)	1
1-2	2	70000-614	DECAL-MODEL NAVIGATOR (BIG)	2	1-2	29	700IA-473	DECAL-THROTTLE (UG)	1
	_	70000-615	DECAL-MODEL NAVIGATOR (SMALL)	1	1-2	30	7000A-975	DECAL NAVTECH-ON/OFF (SN101-192)	1
1-2	3	7000A-883	DECAL-MODEL D40X40	2	1-2	31	700IA-394	DECAL - WARNING	1
1-2	4	2326-619	DECAL- VERMEER 3 X 15	1	1-2	32		DECAL - DANGER	1
. –		2326-595	DECAL VERMEER- 4 1/2 X 24	1	1-2	33	7001A-392	DECAL - DANGER	5
1-2	5	700IA-268	DECAL-DRILL FORCE RT (UND)	1	1-2	34	7000A-745	DECAL-NAVTEC	2
1-2	6	700IA-262	DECAL - FLUID PRESSURE (UG)	1	1-2	35	700IA-509	DECAL-STEER	1
1-2	7	700IA-395	DECAL-WARNING	1	1-2	36	7000 A -510	DECAL-AUTO/MANUAL SWITCH	1
1-2	В	700IA-808	DECAL-SEAT/DRILL COMBO (\$N101-192)	1	1-2	37	700IA-864	DECAL-WARNING INTERNATIONAL	2
1-2	9	700IA-269	DECAL-DRILL ROTATION LT (UND)	1	1-2	38	23261-315	DECAL-WARNING	1
1-2	10	700IA-807	DECAL-WASHWAND	1	1-2	39	23261-756	DECAL-HYDRAULIC FLUID	1
1-2	11	700IA-325	DECAL-WARNING INTERNATIONAL	1	1-2	40	7000A-814	DECAL-HYDRAULIC OIL FILLER	1
1-2	12	7001A-270	DECAL-SPEED VARIATION (UND)	1	1-2	41	70001-044	DECAL-WARNING	1
1-2	13	700IA-267	DECAL - ROD VISES (UG)	1	1-2	42	70001-563	DECAL-WARNING (UND)	2
1-2	14	700IA-997	DECAL-GEARBOX POSITION	1	1-2	43	70001-530	DECAL-DANGER	4
1-2	15	7001A-477	DECAL_BATTERY SWITCH (UG)	1	1-2	44	70000-834	DECAL-TIE DOWN POINT	6
1-2	16	700IA-260	DECAL-TEST (UND)	1	1-2	4 5	2326-940	DECAL-NOTICE TO OWNERS	1
1-2	17	7000A-508	DECAL-DISPLAY	1	1-2	46	7000A-858	DECAL-TRANSPORT LOCK	1
1-2	18	7001A-401	DECAL -CONTROL BANK	1	1-2	47	700IA-863	DECAL-WARNING	1
1-2	19	700IA-624	DECAL-LOADER POSITION	1	1-2	48	700IA-966	DECAL-STAKE LEFT-RIGHT	1
1-2	20	23261-324	DECAL-WARNING	1	1-2	49	700IA- 7 71	DECAL-BREAKER LIGHTS	1
1-2	21	70001-098	DECAL-DIESEL FUEL	1	1-2	50	7000B-182	DECAL-LUBE CHART	1
1-2	22	70000-939	DECAL-15" VERMEER LOGO	1	1-2	51	700IB-226	DECAL-THRUST (SN176-192)	1
1-2	23	700IB-001	DECAL- IGNITION	1	1-2	52	7000B-202	DECAL-ROCKFIRE (SN176-)	1
1-2	24	7001A-265	DECAL - INSTRUMENTS (UG)	1	1-2	53	700IB-365	DECAL-WRAPPER-RIGHT (REPLACES REF.	
1.2	25	7000B-119	DECAL-PATENT	1				8, 30, 51) (SN193-)	1
1-2	26	7000A-027		1					
1-2	27	7001A-804		1			901228-094	DECAL ASSYD40X40 (INTERNATIONAL) (INC. ALL ITEMS IN FIGURE)	

Revised August 2000 due to update of decals. Added part marked with *.

DECAL LOCATION ASSEMBLY



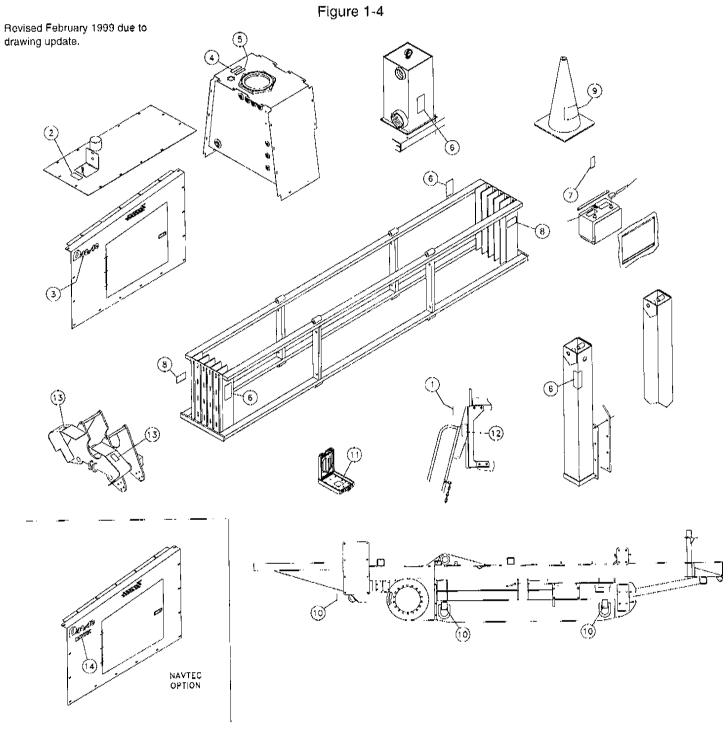


							\/_		
REF	. NO.	PART NO.	DESCRIPTION	QTY.	<u>REF.</u>	<u>NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
1-3	1	70000-775	DECAL 3*VERMEER STRIPE	21	1-3	23	70000-098	DECAL-DIESEL (AT/UND)	1
1-3	2	70000-614	DECAL-MODEL NAVIGATOR (BIG)	2	1-3	24	70000-939	DECAL-15" VERMEER LOGO	1
1-3	3	7000A-883	DECAL-MODEL D40X40	1	1-3	25	700IB-001	DECAL- IGNITION	1
1-3	4	2326-619	DECAL- VERMEËR 3 X 15	1	1-3	26	700IA-265	DECAL - INSTRUMENTS (UG)	1
1-3	5	700IA-268	DECAL-DRILL FORCE RT (UND)	1	1-3	27	7000B-119	DECAL- PATENT	1
1-3	6	700lA-262	DECAL - FLUID PRESSURE (UG)	1	1-3	28	7000A-027	DECAL-NAVIGATOR FREEZE GUARD	1
1-3	7	7000A-395	DECAL - WARNING	1	1-3	29	700IA-804	DECAL-WORK LIGHT	1
		700IA-395	DECAL-WARNING	1	1-3	30	700IA-266	DECAL - CONTROL PANEL (UG)	1
1-3	8	700IA-808	DECAL-SEAT/DRILL COMBO (SN101-192)	1	1-3	31	700IA-473	DECAL-THROTTLE (UG)	1
1-3	9	70000-615	DECAL-MODEL NAVIGATOR (SMALL)	1	1-3	32	700IA-771	DECAL-BREAKER LIGHTS	1
1-3	10	700IA-269	DECAL-DRILL ROTATION LT (UND)	1	1-3	33	7000A-394	DECAL - WARNING	1
1-3	11	700IA-807	DECAL-WASHWAND	1			7001A-394	DECAL - WARNING	1
1-3	12	7000A-325	DECAL-WARNING	1	1-3	34	7000A-393	DECAL - DANGER	1
		700IA-325	DECAL-WARNING INTERNATIONAL	1			700IA-393	DECAL - DANGER	1
1-3	13	700IA-270	DECAL-SPEED VARIATION (UND)	1	1-3	35	7000A-392	DECAL - DANGER	1
1-3	14	700IA-267	DECAL - ROD VISES (UG)	1			700IA-392	DECAL - DANGER	1
1-3	15	700IA-490	DECAL-INDICATOR 2 7/8-3 1/2ROD	1	1-3	36	7000A-745	DECAL-NAVTEC	1
1-3	16	700IA-477	DECAL_BATTERY SWITCH (UG)	1	1-3	37	7001A-509	DECAL-STEER	1
1-3	17	700IA-260	DECAL-TEST (UND)	1	1-3	38	7000A-510	DECAL-AUTO/MANUAL SWITCH	1
1-3	18	7000A-508	DECAL-DISPLAY	1	1-3	39	7000A-975	DECAL NAVTECH-ON/OFF (SN101-192)	1
1-3	19	700IA-401	DECAL -CONTROL BANK	1	1-3	40	700IA-966	DECAL-STAKE LEFT-RIGHT	1
1-3	20	2326-595	DECAL VERMEER- 4 1/2 X 24	1	1-3	41	7000B-182	DECAL-LUBE CHART	1
1-3	21	700IA-624	DECAL-LOADER POSITION	1	1-3	42	700IB-226	DECAL-THRUST (SN176-192)	1
1-3	22	2326-324	DECAL-WARNING/REFUEL	1	1-3	43	70008-202	DECAL-ROCKFIRE (SN176-)	1
		23261-324	DECAL-WARNING	1			*700IB-365	DECAL-WRAPPER-RIGHT (REPLACES	
								REF. 8, 39, 42) (SN193-)	1

(PAGE 1-4) D40X40/NAVTEC NAVIGATOR

DECAL LOCATION ASSEMBLY





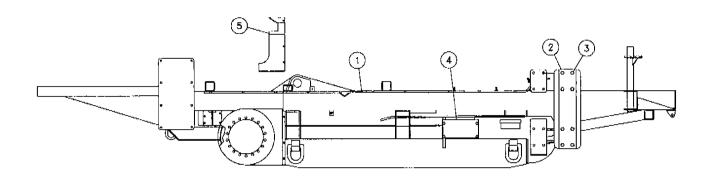
REF.	NO.	<u>PART NO.</u>	DESCRIPTION	QTY.	REF	. <u>NO.</u>	<u>PART NÓ.</u>	DESCRIPTION	QTY.
1-4	1	7000A-863	DECAL-WARNING (AT)	1			70001-044	DECAL-WARNING	1
		700IA-863	DECAL-WARNING (INT.)	1	1-4	8	70000-563	DECAL-WARNING (UND)	2
1.4	2	2326-315	DECAL-WARNING	1			70001-563	DECAL-WARNING (UND)	2
		23261-315	DECAL-WARNING	1	1-4	9	70001-530	DECAL-DANGER	4
1-4	3	7000A-883	DECAL-MODEL D40X40	1	1-4	10	70000-834	DECAL-TIE DOWN POINT	6
1-4	4	2326-756	DECAL-HYDRAULIC OIL	1	1-4	11	2326-940	DECAL-NOTICE TO OWNERS	1
		23261-756	DECAL-HYDRAULIC FLUID	1	1-4	12	7000A-858	DECAL-TRANSPORT LOCK	1
1.4	5	7000A-814	DECAL-HYDRAULIC OIL FILLER	1	1-4	13	7000A-864	DECAL-WARNING DOMESTIC	2
1-4	6	7000A-392	DECAL - DANGER	4			700IA-864	DECAL-WARNING INTERNATIONAL	2
		700IA-392	DECAL - DANGER	4	1-4	14	7000A-745	DECAL-NAVTEC	1
1-4	7	70000-044	DECAL-WARNING(AT/UND)	1					

D40x40/NAVTEC NAVIGATOR (PAGE 1-5)

MAIN FRAME ASSEMBLY

Figure 1-5

Revised August 2000 due to update in illustration.



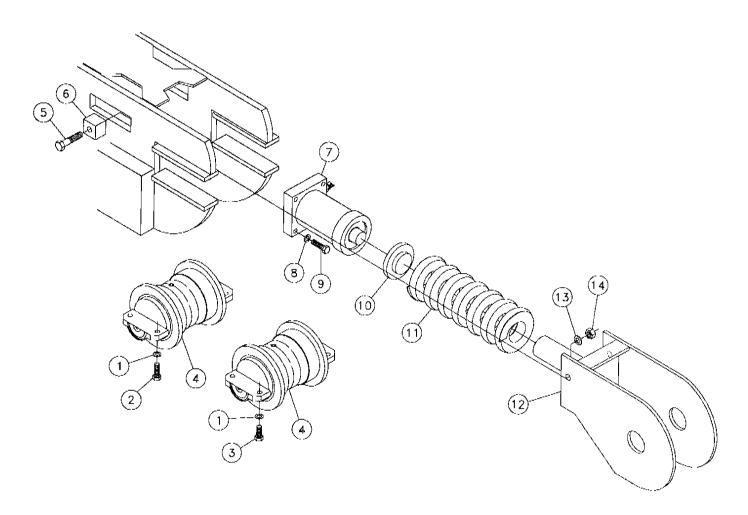
REF	. NO.	PART NO.	DESCRIPTION	QTY.
1-5	1	241653-001	FRAME-MAIN	1
1-5	2	277785-001	PLATE-ROPS SUPPORT	1
1-5	3	238220-001	BOLT-5/8-11X1 3/4 GR8 HEX ZYC	8
		235715-001	WASHER-5/8 SAE HARD ZINC PLT	16
		250513-001	NUT-5/8-NC GR8 TOP LOCK Y/ZINC	8
1-5	4	902157-001	TRACK TIGHTENER SHIELD	2
		235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	8
		235713-001	WASHER-3/8 SAE HARD ZINC PLTD	8
1-5	5	902162-001	SPROCKET SHIELD (LEFT)	1
		902162-002	SPROCKET SHIELD (RIGHT)	1
		485-025	WASHER-1/2 FLAT-HARDENED-ZINC	6
		235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	6

(PAGE 1-6) D40X40/NAVTEC NAVIGATOR

TRACK TIGHTENER, ROLLER & CHAIN ASSEMBLY

Figure 1-6

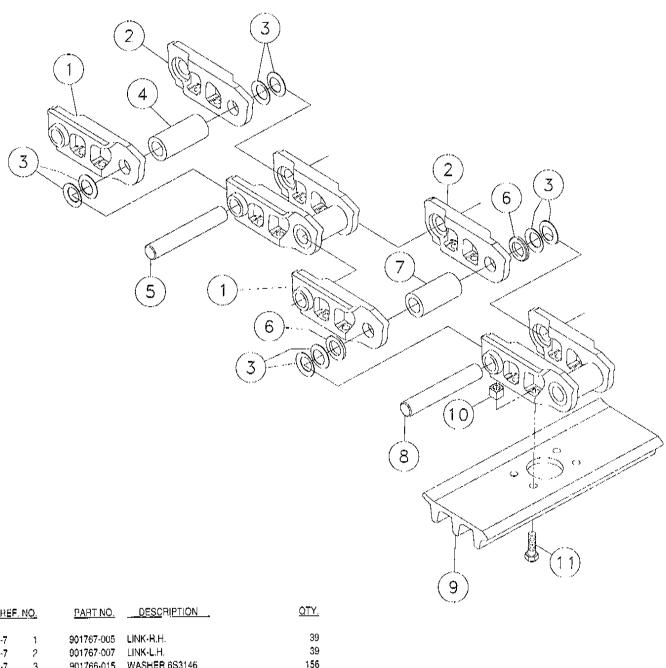
Revised August 2000 due to update in parts list. Added part marked with *.



REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	QTY.
1-6	1	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	56
1-6	2	235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	12
1-6	3	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	44
1-6	4	902013-001	ROLLER-TRACK 3T4352	14
1-6	5	250532-001	BOLT-5/8-18 X 2 3/4 GR8 HEX Y/	4
1-6	6	6716-001	SPACER-TRACK ADJ BOLT (SN101-182)	4
		*285769-001	SPACER-TRACK ADJ. BOLT (SN183-)	4
1-6	7	231104-001	CYLINDER-3 1/2"X4 3/4"	
			(BREAKDOWN FIG. 1-23)	2
1-6	8	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	8
1-6	9	240334-001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	8
1-6	10	69908-001	PLATE-TRACK SPRING SUPPORT	2
1-6	11	1803-051	SPRING-COMP.1"WX4 1/20D X 12"	2
1-6	12	901995-001	BOX-TRACK END ROLLER	2
1-6	13	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	4
1-6	14	238221-001	NUT-5/8-11 GR8 NC Y/ZINC	4

TRACK CHAIN ASSEMBLY

Figure 1-7



HEF	<u>, NQ.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	QTY.
1-7	1	901767-005	LINK-R.H.	39
1-7	2	901767-007	LINK-L.H.	39
1.7	3	901766-015	WASHER 6S3146	156
1.7	4	901767-009	BUSHING	38
1-7	5	901767-011	PIN	38
1-7	6	901766-011	SPACER 6S3145	2
1-7	7	901766-017	BUSHING 6\$3179	1
1-7	8	901766-013	PIN-MASTER 8L5560	1
1-7	9	901767-003	GROUSER-18" TRIPLE 6ZXXXX	39
1.7	10	26384-001	NUT-IN 1319A 9/16-18 SQ.HD.	156
1-7	11	12698-001	BOLT-9/16-18X2 TRACK PAD	156

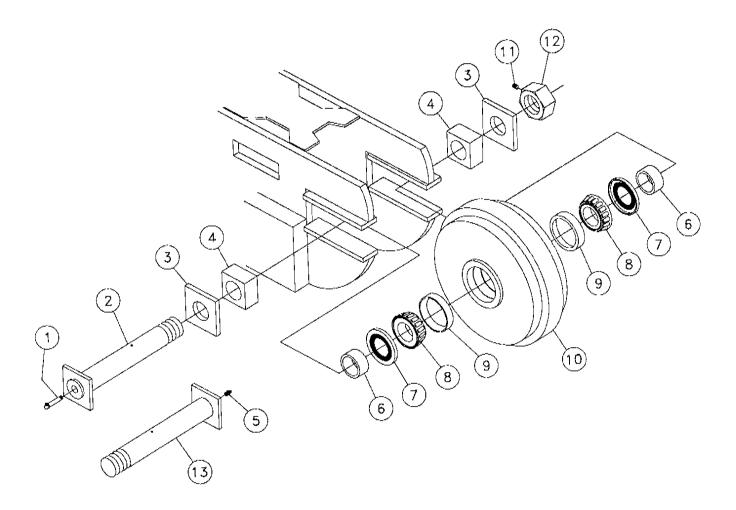
901767-001 CHAIN-TRACK (INC. ALL ITEMS IN THIS FIGURE)

(PAGE 1-8) D40X40/NAVTEC NAVIGATOR

TRACK END ROLLER ASSEMBLY

Figure 1-8

Revised August 2000 due to update in parts list. Added part marked with *.



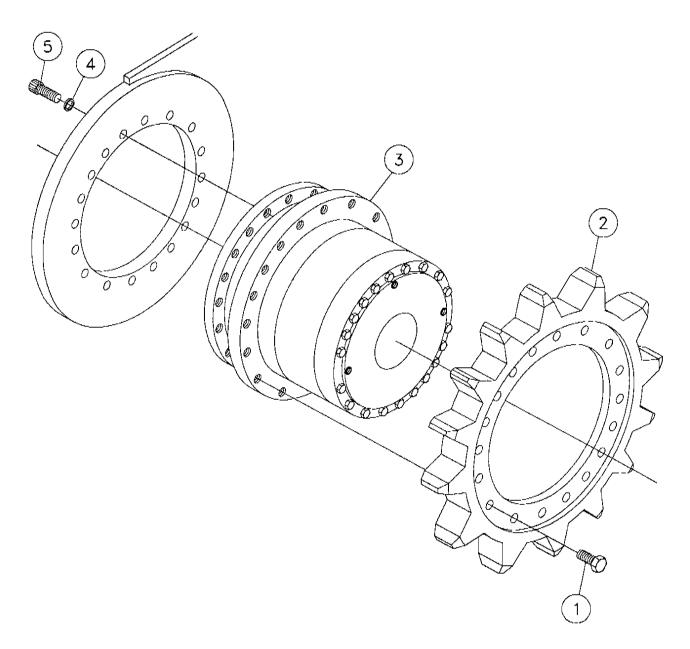
REF	<u>. NQ.</u>	PART NO.	DESCRIPTION	QTY.
1-8	1	593-001	ZERK-1/8" 90 DEG GRSE 1 13/16	1
1-8	2	902770-005	BOLT ASSYEND IDLER ROLLER (INC. REF. 1)	1
1-8	3	903257-001	SPACER-IDLER ROLLER BOLT	4
1-8	4	903256-001	BLOCK-IDLER ROLLER BOLT (SN101-182	2) 4
		*285770-001	BLOCK-IDLER ROLLER BOLT (SN183-)	1
1-8	5	586-001	ZERK-1/8 NPT ST GREASE	1
1-8	6	280532-001	SPACER-IDLER ROLLER	
			(REPLACES 6706-001)	4
1-8	7	3967-001	SEAL	4
1-8	8	1716-011	TIMKEN CONE 2"	4
1-8	9	1715-011	TIMKEN CUP 2"	4
1-8	10	217479-003	ROLLER-TRACK END IDLER	_
			(INC. TWO OF REF. 9)	2
1-8	11	530-001	SSS-3/8-16X1/2	2
1-8	12	6702-003	NUT ASSY-END IDLER ROLLER	2
1-8	13	902770-003	BOLT ASSY-END IDLER ROLLER (INC. REF. 5)	1

D40X40/NAVTEC NAVIGATOR (PAGE 1-9)

TRACK PLANETARY ASSEMBLY

Figure 1-9

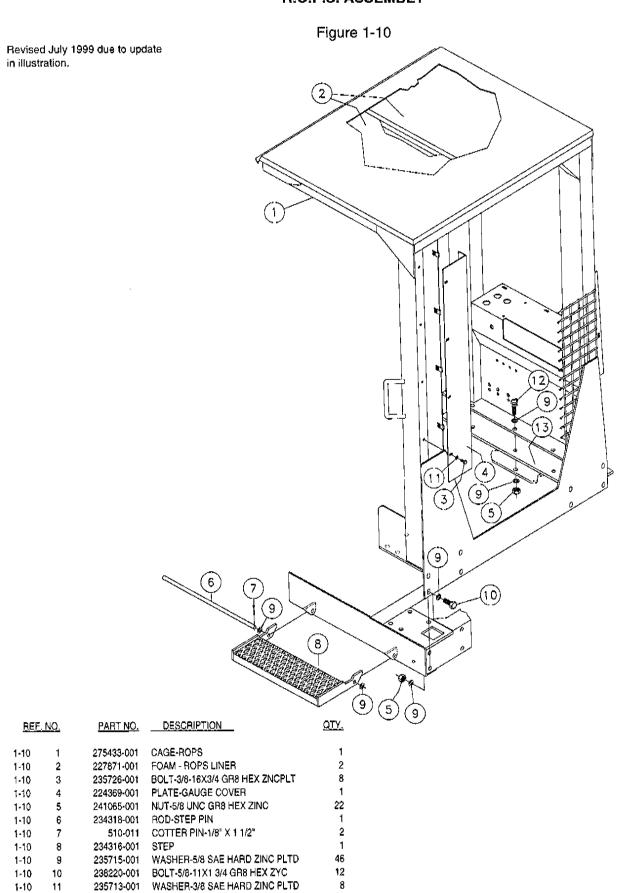
Revised August 2000 due to update in parts list. Changed part marked with *.



REF, NO. PART NO.		PART NO.	DESCRIPTION	QTY.
1-9	1	249884-001	BOLT-M16X40 HHCS 10.9 DIN 933 ZN	36
1-9	2	*285757-001	SPROCKET-19T TRACK FIC72750	
			(REPLACES 901997-001)	2
1-9	3	214045-001	PLANETARY-CT18 FAIRFIELD	2
1-9	4	249889-001	WASHER-M16 8.8 LOCK ZINC	36
1-9	5	249885-001	BOLT-M16X45 12.9 SOC HD C/S ZN	36

(PAGE 1-10) D40X40/NAVTEC NAVIGATOR

R.O.P.S. ASSEMBLY



10

238245-001 BOLT-5/8-11X2 1/4" GR 8 HEX

277782-001 PLATE-ROPS SPACER

1-10

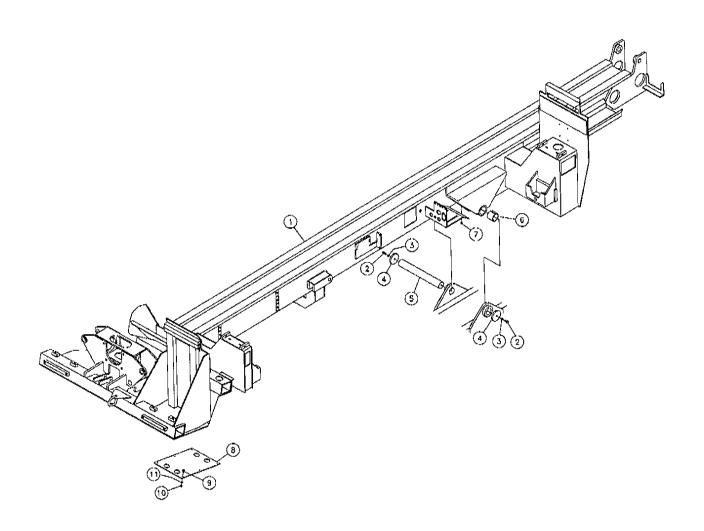
1-10

12

RACK FRAME ASSEMBLY

Figure 1-11

Revised September 1999 due to update in illustration.



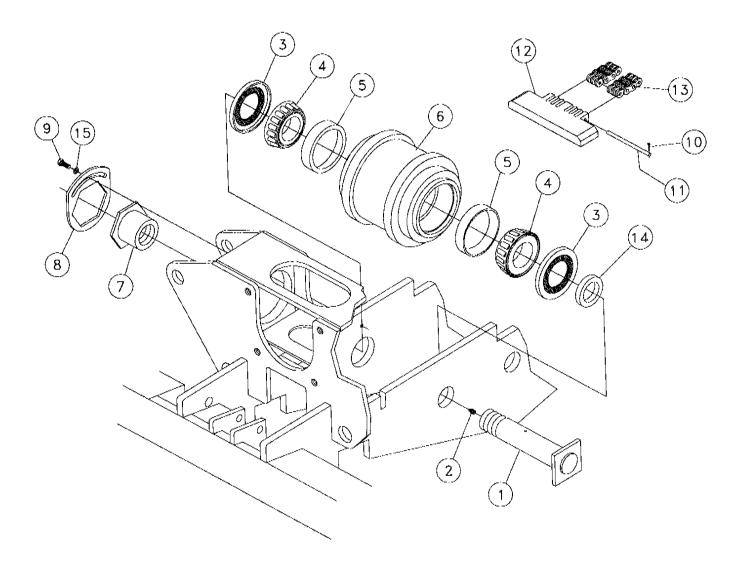
REF. NO.		<u>PART NO.</u>	DESCRIPTION_	QTY.
1-11	1	249771-001	MAIN FRAME-RACK 15'	1
1-11	2	235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	2
1-11	3	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	2
1-11	4	38884-001	*PIVOT ROD SLUG	2
1-11	5	216620-001	PIN-RACK PIVOT	1
1-11	6	1835-099	BSHG-STL.3 X 2 1/2-2 1/2	2
1-11	. 7	590-001	ZERK-1/8" NPT 90 DEG GREASE	1
1-11	8	227929-001	COVER-BASE PLATE	1
1-11	9	375-010	BOLT-3/8"-16X1"GD#5 CARRIAGE	6
1-11	10	4536-001	NUT - 3/8-16 FLG. WHIZ LOCK	6
1-11	11	235725-001	NUT-3/8-16 GR 8 HEX ZINC	6
1-11	12	235713-001	WASHER-3/8 SAE HARD ZINC	6

(PAGE 1-12) D40X40/NAVTEC NAVIGATOR

FRONT ROLLER ASSEMBLY

Figure 1-12

Revised August 2000 due to update in parts list. Changed part marked with *.



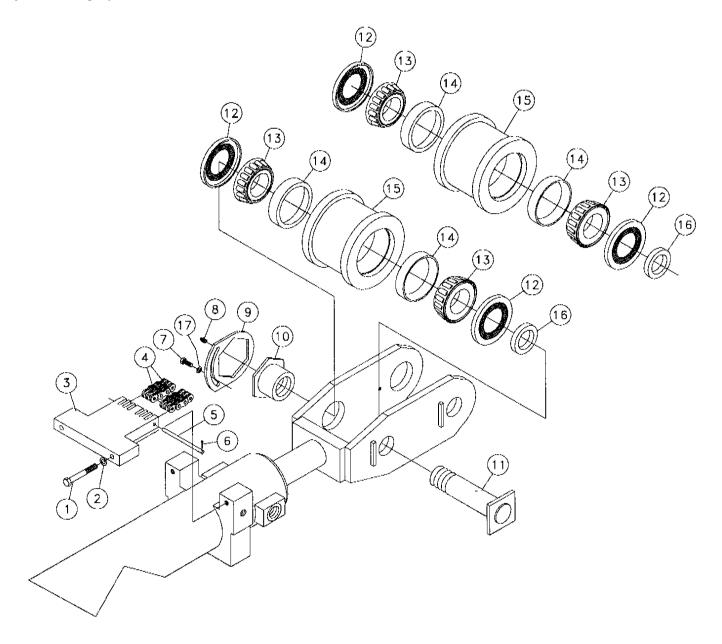
REF	. NO.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
1-12	1	216712-003	PIN ASSY-FRONT ROLLER (INC. REF. 2)	1
1-12	2	586-001	ZERK-1/8" ST NPT GREASE	1
1-12	3	224299-001	SEAL-C/R 31353	2
1-12	4	1716-153	TIMKEN CONE-2 1/8"	2
1-12	5	1715-091	TIMKEN CUP-2 1/8"	2
1-12	6	239482-001	FRONT CHAIN ROLLER ASSY	1
1-12	7	216596-001	NUT-IDLER PIN	1
1-12	8	224265-001	PLATE-NUT LOCK	1
1-12	9	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1
1-12	10	510-005	COTTER PIN-3/32" X 3/4"	2
1-12	11	216742-001	PIN-2BL8XX LEAF CHAIN	1
1-12	12	239289-001	ANCHOR-THRUST CHAIN	1
1-12	13	*283591-001	CHAIN-LEAF 2-233 PITCHES MATCHED	1
		98422-001	LINK-BL866 CONNECTOR	0
1-12	14	224250-001	SPACER-SHEAVE	1
1-12	15	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	1

D40X40/NAVTEC NAVIGATOR (PAGE 1-13)

THRUST CYLINDER ROLLER ASSEMBLY

Figure 1-13

Revised August 2000 due to update in parts list. Changed part marked with *.

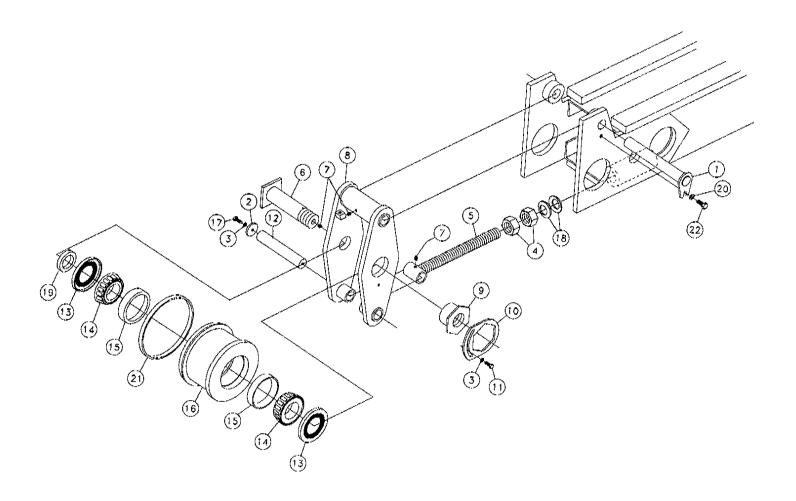


RE	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.
1-13	1	238213-001	BOLT-1/2-13X3 3/4 GR8 HEX ZYC	2	1-13	10	216596-001	NUT-IDLER PIN	2
1-13	2	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	2	1-13	11	216713-003	PIN ASSY-REAR ROLLER (INC. REF. 8)	2
1-13	3	216658-001	CLEVIS-2BL866	1	1-13	12	224299-001	SEAL-C/R 31353	4
1-13	4	*283592-001	CHAIN-LEAF 2-363 PITCHES MATCHED	1	1-13	13	1716-153	TIMKEN CONE-2 1/8"	4
		98422-001	LINK-BL866 CONNECTOR	2	1-13	14	1715-091	TIMKEN CUP-2 1/8"	4
1-13	5	216742-001	PIN-2BL8XX LEAF CHAIN	1	1-13	15	239483-001	CHAIN ROLLER ASSY (T/P CYL)	
1-13	6	510-005	COTTER PIN-3/32" X 3/4"	2				(INC, TWO OF REF. 14)	1
1-13	7	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	2	1-13	16	224250-001	SPACER-SHEAVE	2
1-13	8	586-001	ZERK-1/8" ST NPT GREASE	2	1-13	17	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	2
1-13	9	224265-001	PLATE-NUT LOCK	2					

(PAGE 1-14) D40X40/NAVTEC NAVIGATOR

REAR CHAIN TIGHTENER ASSEMBLY

Figure 1-14

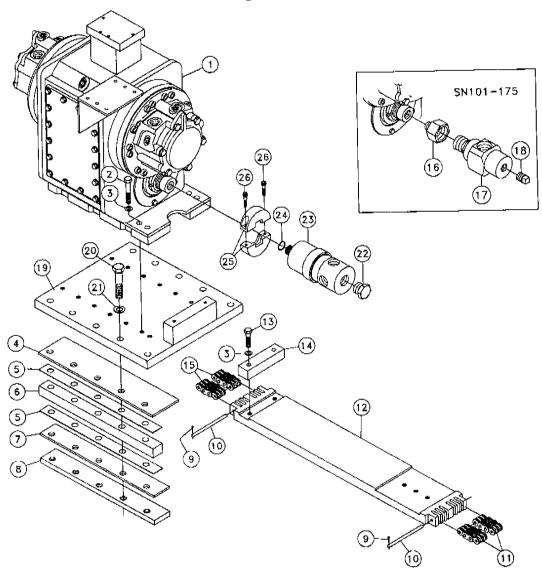


<u>REF</u>	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
1-14	1	227918-001	PIN-ROLLER FRAME PIVOT	1	1-14	11	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1
1-14	2	18150-001	\$LUG-2 DIA1/4*	2	1-14	12	216723-001	PIN-REAR IDLER FRAME	1
1-14	3	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	3	1-14	13	224299-001	SEAL-C/R 31353	2
1-14	4	234436-001	NUT-1 1/2"-4 ACME	2	1-14	14	1716-153	TIMKEN CONE-2 1/8"	2
1-14	5	234434-003	TIGHTENER ASSY-CHAIN (INC. ONE		1-14	15	1715-091	TIMKEN CUP-2 1/8"	2
			OF REF. 7)	1	1-14	16	216591-003	ROLLER ASSEMBLY (INC. REF. 15 & 23)	1
1-14	6	216713-003	PIN ASSY-REAR ROLLER (INC. ONE		1-14	17	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	2
			OF REF. 7)	1	1-14	18	234452-001	WASHER-BELLEVILLE2,500DX1,53iD	18
1-14	7	586-001	ZERK-1/8" ST NPT GREASE	3	1-14	19	224250-001	SPACER-SHEAVE	1
1-14	8	216720-003	FRAME ASSY-REAR CHAIN IDLER		1-14	20	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	1
			(INC. ONE OF REF. 7)	1	1-14	21	234816-001	121 PULSE RING	1
1-14	9	216596-001	NUT-IDLER PIN	1	1-14	22	235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	1
1-14	10	224265-001	PLATE-NUT LOCK	1					

Revised August 2000 due to update in illustration & parts list. Changed parts marked with *.

ROTATION GEARBOX ASSEMBLY

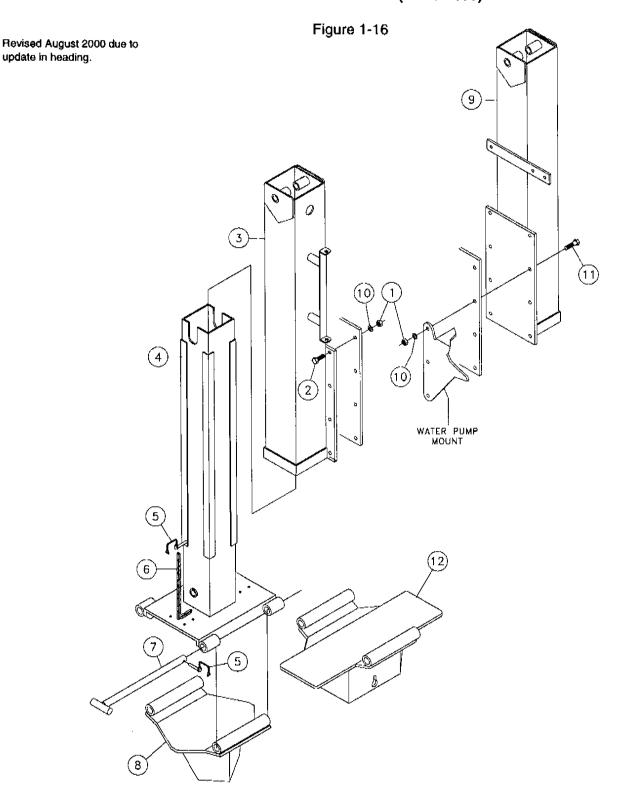
Figure 1-15



REF.	NŌ.	PART NO.	<u>DESCRIPTION</u>	QTY.	REF.	<u>NO.</u>	PART NO.	DESCRIPTION	<u>TY.</u>
1-15	1	250571-001	ROTATION GEARBOX ASSEMBLY				98422-001	LINK-BL866 CONNECTOR	
	,		(INC, REF. 1-8 & 19-21)		1-15	16	244476-001	FITTING-12 MORING X 1 1/2 NPTF	
			(BREAKDOWN FIG. 1-20)	1				(SN101-175)	1
1-15	2	*235718-001	BOLT-1/2-13 X 2 GR8 HX Y/Z PLT		1-15	17	277834-001	SWIVEL-200 GPM WATER W/BRG	
	_		(REPLACES 250573-001)	14				(SN101-175)	
1-15	3	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	16				(BREAKDOWN FIG. 1-25)	_ 1
1-15	4	216667-001	WEARSTRIP (PLASTIC)	2	1-15	18	732-009	PLUG-3/4" PIPE BLACK STEEL (SN101-175) 1
1-15	5	216749-001	SHIM-GEAR BOX SLIDE	4	1-15	19	244391-001	PLATE-GEARBOX ADAPTER	1
1-15	6	216747-001	SPACER-GEARBOX SLIDE	2	1-15	20	*238881-001	BOLT-3/4-10X4 HHCS GR 8 ZY	
1-15	7	216547-001	WEARSTRIP (PLASTIC)	2				(REPLACES 250572-001)	10
1-15	8	216748-001	BAR-SLIDE	2	1-15	21	235717-001	WASHER-3/4 SAE HARD ZINC PLTD	10
1-15	9	510-005	COTTER PIN-3/32" X 3/4"	4	1-15	22	81214-001	PLUG-16M (SN176-)	1
1-15	10	216742-001	PIN-2BL8XX LEAF CHAIN	2	1-15	23	250117-001	SWIVEI-TD-4-12-16-16 (SN176-)	1
1-15	11	*283592-001	CHAIN-LEAF 2-363 PITCHES MATCHED	1			250117-003	REPAIR KIT-SWIVEL	1
1-10		98422-001	LINK-BL866 CONNECTOR		1-15	24	3211-043	O-RING-#119 (SN176-)	1
1-15	12	234499-001	DOGBONE-CYLINDER STYLE	1	1-15	25	283521-001	BUSHING-2 HALVES SWIVEL LOCK	
1-15	13	279269-001	BOLT-1/2-20X2 1/2 GR8 HEX ZINC	2				(SN176-)	1
	14	224277-001	STOP-DOGBONE	1	1-15	26	242906-001	CAPSCREW-5/16-18X1.50 SK HD ZNC	
1-15 1-15	15	*283591-001	CHAIN-LEAF 2-23 PITCHES MATCHED	1		-+		(SN176-)	2
1-15	(5)	203391-001	OHMITEEN EROTHORIES WATCHES	•				•	

(PAGE 1-16) D40X40/NAVTEC NAVIGATOR

OUTRIGGER ASSEMBLY (SN101-193)

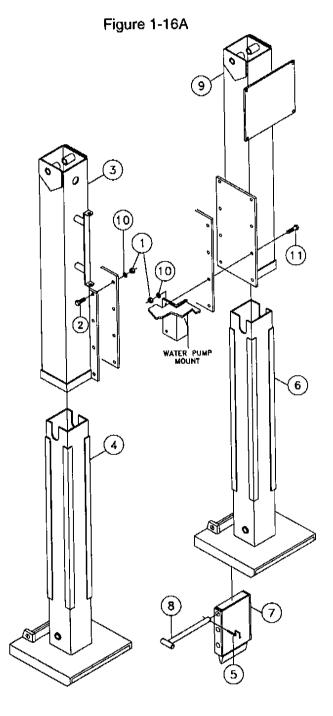


<u>REF. NO.</u>		PART NO.	DESCRIPTION	QTY.	REF. NO.		PART NO.	<u>DESCRIPTION</u>	<u>QTY.</u>
1-16	1	238221-001	NUT-5/8-11 GR8 NC Y/ZINC	16	1-16	7	227791-001	PIN-OUTRIGGER SHOVEL	4
1-16	2	250607-001	BOLT-5/8-11X2 GR8 HEX Y/ZINC	13	1-16	8	224340-001	STAKE-REAR	2
1-16	3	239469-001	OUTRIGGER-OUTSIDE TUBE (LEFT)	1	1-16	9	239458-001	OUTRIGGER-OUTSIDE TUBE (RIGHT)	1
1-16	4	224331-001	OUTRIGGER TUBE-INSIDE	2	1-16	10	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	16
1-16	5	2108-001	LYNCH PIN - 1/4 X 2	6	1-16	11	238245-001	BOLT 5/8"-11 X 2 1/4" GR8 HEX	3
1-16	6	239284-001	CHAIN - 1/4" PC 18 LINKS	2	1-16	12	239257-001	STAKE-LARGE OUTRIGGER	2

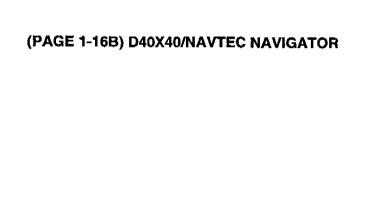
D40X40/NAVTEC NAVIGATOR (PAGE 1-16A)

OUTRIGGER ASSEMBLY (SN194-)

Revised August 2000 due to addition of figure to manual.



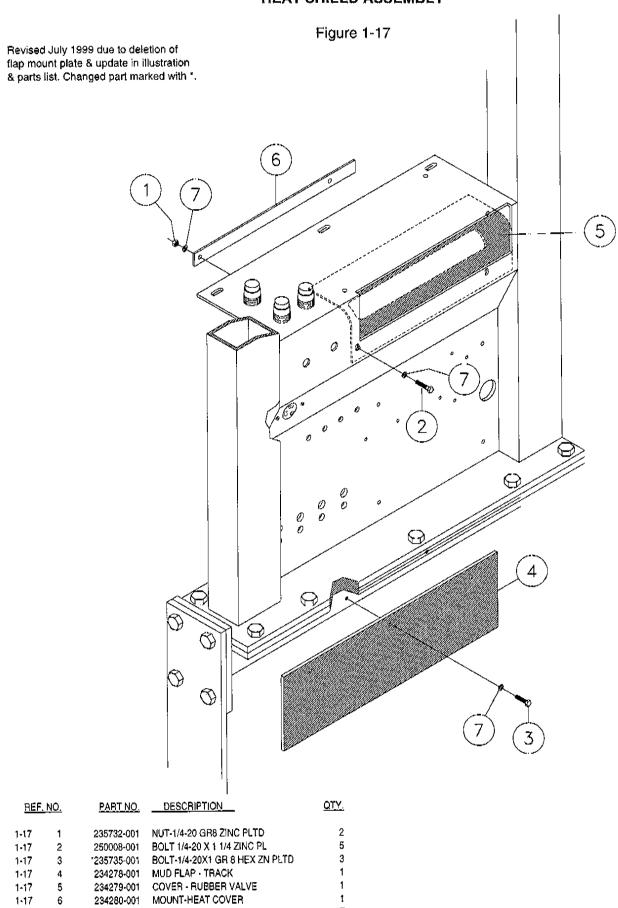
REF. NO. PART NO. DESCRIPTION			DESCRIPTION	QTY.
1-16A	1	238221-001	NUT-5/8-11 GR. 8 NC Y-ZINC	16
1-16A	2	145645-001	BOLT-5/8"-11X2 GR 8 HEX ZINC	14
1-16A	3	239469-001	OUTRIGGER-OUTSIDE TUBE (LEFT)	1
1-16A	4	283568-001	OUTRIGGER-TUBE INSIDE LEFT	1
1-16A	5	2108-001	LYNCH PIN-1/4X2	2
1-16A	6	283569-001	OUTRIGGER TUBE-INSIDE RIGHT	1
1-16A	7	283549-001	KNIFE-OUTRIGGER	2
1-16A	8	283558-001	PIN-OUTRIGGER KNIFE	2
1-16A	9	287007-001	OUTRIGGER-OUTSIDE TUBE (RIGHT)	1
1-16A	10	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	16
1-16A	11	238245-001	BOLT-5/8"-11X2 1/4 GR 8 HEX	2



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D40X40/NAVTEC NAVIGATOR (PAGE 1-17)

HEAT SHIELD ASSEMBLY



235716-001 WASHER-1/4 SAE HARD ZINC PLTD

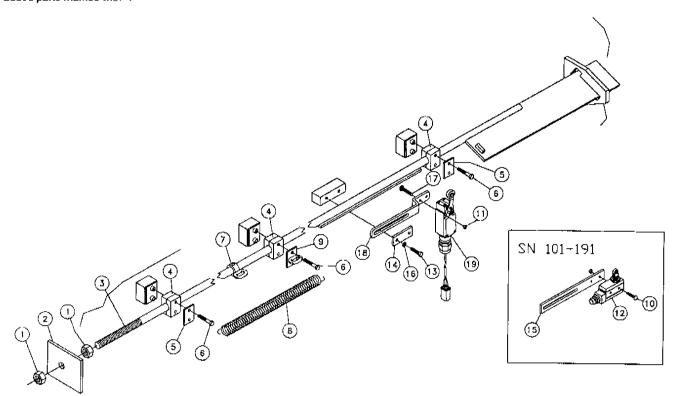
1-17

(PAGE 1-18) D40X40/NAVTEC NAVIGATOR

DRILL ROD POSITION INDICATOR ASSEMBLY

Figure 1-18

Revised August 2000 due to update in illustration & parts list. Changed/added parts marked with *.

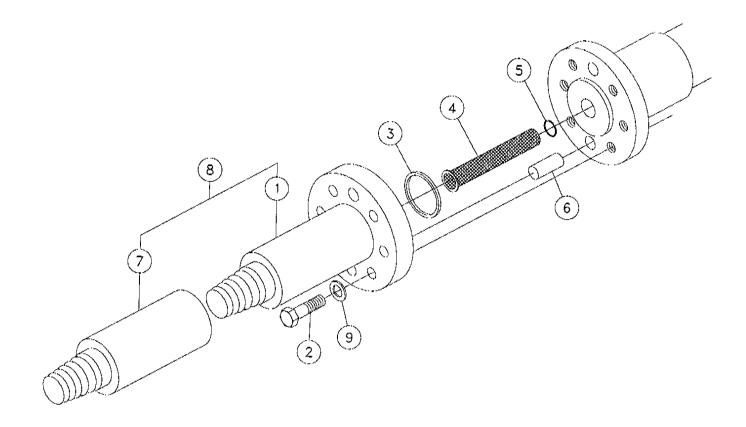


<u>REF. NO. PART NO.</u>		<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
1-18	1	250513-001	NUT-5/8-NC GR8 TOP LOCK Y/ZINC	2
1-18	2	227968-001	SLUG-DRILL ROD INDICATOR	1
1-18	3	227962-001	INDICATOR-DRILL ROD	1
1-18	4	*279817-001	CLAMP-HOSE 2180 PP	3
1-18	5	903135-005	PLATE-COVER COP-2	2
1-18	6	238210-001	BOLT-1/4-20X1 1/2*GRADE#8 HEX Y/Z	6
1-18	7	227979-001	MOUNT-ROD INDICATOR SPRING	1
1-18	8	1789-001	SPRING-1 1/80DX15/16ID X15 EXT	1
1-18	9	227978-001	MOUNT-ROD INDICATOR SPRING	1
1-18	10	10530-012	SCREW-8-32X1 1/4 RDHDSLOT MACH	
			(SN101-191)	2
1-18	11	399-001	NUT-8-32 HEX	2
1-18	12	223967-001	SWITCH-OMRON ENCLOSED LIMIT	
			(SN101-191)	1
1-18	13	235735-001	BOLT-1/4-20X1 GR8 HEX ZNC PLTD	2
1-18	14	234420-001	COVER-SWITCH MOUNT	1
1-18	15	234418-001	MOUNT-SWITCH (SN101-191)	1
1-18	16	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	2
1-18	17	*144654-001	SCREW-#8-32X1 1/2 STOVE (SN192-)	2
1-18	18	*283555-001	MOUNT-SWITCH (SN192-)	1
1-18	19	*276467-001	SWITCH-NO/NC LEVER/ROLLER (SN192-) 1

D40X40/NAVTEC NAVIGATOR (PAGE 1-19)

DRIVE CHUCK ASSEMBLY

Figure 1-19

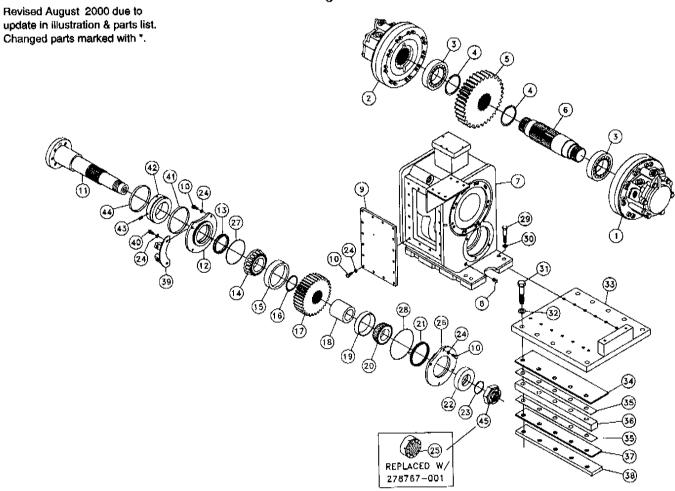


REF.	NO.	PART NO.	DESCRIPTION	QTY.
1-19	1	230806-001	DRIVE CHUCK 2 5/8 OD	1
1-19	2	240334-001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	6
1-19	3	72897-001	O RING-SQ. #24 FLANGE	1
1-19	.4	905011-001	SCREEN	1
		905012-001	SCREEN	1
1-19	5	904508-001	WASHER-BLACK RUBBER	1
1-19	6	70096-001	PIN-DOWEL 5/8DIA1 1/2	2
1-19	7	244492-001	SUB2 3/8 VERMEER THREAD LONG	1
1-19	8	244493-001	ASSEMBLY-2 5/8 OD DRIVE CHUCK	1
1-19	9	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	6

(PAGE 1-20) D40X40/NAVTEC NAVIGATOR

ROTATION GEARBOX COMPONENTS

Figure 1-20

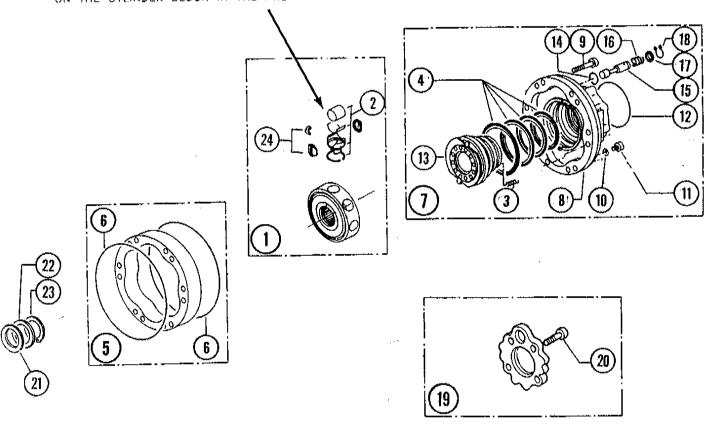


REF	. NO.	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
1-20	1	235790-001	MOTOR-38.2CID W/O BRAKE D PREF	1	1-20	26	228131-001	GLAND-REAR SEAL	1
1-20	2	235791-001	MOTOR-38,2CID W/O BRAKE G PREF	1	1-20	27	228181-001	O-RING	1
1-20	3	1706-007	BRG22215 LB/C3 75MM SPH.ROL.	2	1-20	28	228180-001	O-RING	1
1-20	4	224896-325	SNAP RING-3 1/4" EXTERNAL	2	1-20	29	*235718-001	BOLT-1/2-13 X 2 GR8 HX ZINC PLT	
1-20	5	220488-001	GEAR-37 TOOTH	1				(REPLACES 250573-001)	14
1-20	6	220493-001	SHAFT-TOP MOTOR	1	1-20	30	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	14
1-20	7	251125-001	GEARBOX	1	1-20	31	*238881-001	BOLT-3/4-10X4 HHCS GR 8 ZY	
1-20	8	735-003	1/2 COUNTERSUNK PIPE PLUG (SN101-	173) 1				(REPLACES 250572-001)	10
		*283523-001	PLUG-3/8" NPT HEX MAGNETIC (SN174	l-) 1	1-20	32	235717-001	WASHER-3/4 SAE HARD ZINC PLTD	10
1-20	9	220487-001	PLATE-LID	1	1-20	33	244391-001	PLATE-GEARBOX ADAPTER	1
1-20	10	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	22	1-20	34	216667-001	WEARSTRIP (PLASTIC)	2
1-20	11	243031-001	SHAFT-GEARBOX ROTATION	1	1-20	35	216749-001	SHIM-GEAR BOX SLIDE	4
1-20	12	228158-001	GLAND-FRONT SEAL	1	1-20	36	216747-001	SPACER-GEARBOX SLIDE	2
1-20	13	235788-001	SEAL-3 1/8" HIGH PRESSURE	1	1-20	37	216547-001	WEARSTRIP (PLASTIC)	2
1-20	14	4771-061	BRG, CONE	1	1-20	38	216748-001	BAR-SLIDE	2
1-20	15	1715-013	TIMKEN CUP-2 1/2"	1	1-20	39	244354-001	MOUNT-NAVTECH PPU	1
1-20	16	224896-250	SNAP RING-2 1/2" EXTERNAL	1	1-20	40	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	2
1-20	17	220489-001	GEAR-26 TOOTH	1	1-20	41	234814-001	60 PULSE RING	1
1-20	18	228223-001	TUBE-GEAR SPACER	1	1-20	42	244353-001	COLLAR-PULSE RING	1
1-20	19	1715-085	CUP-BEARING	1	1-20	43	526-003	SSS-3/8-16X3/4	2
1-20	20	1716-099	CONE-2 1/8" BRG.	1	1-20	44	234815-001	2 PULSE RING	1
1-20	21	235787-001	SEAL-4" HIGH PRESSURE	1	1-20	45	278767-001	NUT-50X18-4000# LOCK (SN156-)	1
1-20	22	215350-001	SLEEVE-SEAL	1					
1-20	23	214202-001	O-RING	1			250571-001	ROTATION GEARBOX ASSEMBLY	
1-20	24	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	24				(COMPLETE) (INC. ALL ITEMS IN THE	S
1-20	25	244483-001	NUT-50X18-4000# LOCK (SN101-155)	1				FIGURE)	

HYDRAULIC MOTOR COMPONENTS

Figure 1-21

THERE IS THE POSSIBILITY OF HAVING TWO SIZES OF PISTONS IN A MOTOR, NORMALLY CL "O" IS USED. THERE IS NO MARKING ON THE PISTON OR CYLINDER BLOCK. THERE IS THE POSSIBILITY OF HAVING CL "1" WHICH IS 1mm OVER SIZE. THERE WILL BE A "1" STAMPED ON THE PISTON AND A CORRESPONDING "1" STAMPED ON THE CYLINDER BLOCK IN THE AREA OF THE EFFECTED CYLINDER BORF.



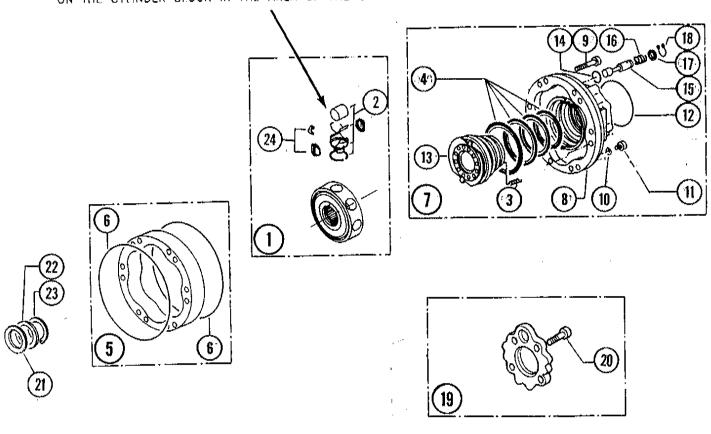
BEF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>OTY.</u>
1-21	1	224897-003	CYLINDER BLOCK	1	1-21	14	235790-011	O-RING	1
1-21	2	208148-001	PISTON CL.1	A/R	1-21	15	235790-013	VALVE SPOOL	1
		224897-005	PISTON CL "0"	A/R	1-21	16	235790-015	\$PRING	1
1-21	3	84550-029	SPRING	8	1-21	17	235790-017	WASHER	1
1-21	4	208157-001	VALVE SEAL RING KIT	1	1-21	18	235790-019	SNAP RING	1
1-21	5	208151-001	CAM RING	1	1-21	19	235790-021	BACK PLATE	1
1-21	6	208152-001	O-RING	2	1.21	20	235790-023	BOLT	6
1-21	7	235790-003	VALVING COVER ASSEMBLY	1	1.21	21	208163-001	SHIM	1
1-21	8	235790-005	VALVING COVER	1	1.21	22	208164-001	WASHER	1
1-21	9	235790-007	SCREW	16	1-21	23	224897-015	SNAP RING	1
1-21	10	64078-025	WASHER	2	1-21	24	224897-017	REPAIR KIT-PISTON	1
1-21	11	64078-027	SCREW-BLEEDING	2				•	
1-21	12	83651-025	O-RING-2.62X145.72	1			224897-001	MOTOR-SINGLE SPEED (COMPLETE)	
1-21	13	235790-009	VALVING	1				(INC. ALL ITEMS IN THIS FIGURE)	

(PAGE 1-22) D40X40/NAVTEC NAVIGATOR

HYDRAULIC MOTOR COMPONENTS

Figure 1-22

THERE IS THE POSSIBILITY OF HAVING TWO SIZES OF PISTONS IN A MOTOR. NORMALLY CL "O" IS USED. THERE IS NO MARKING ON THE PISTON OR CYLINDER BLOCK. THERE IS THE POSSIBILITY OF HAVING CL "1" WHICH IS 1mm OVER SIZE. THERE WILL BE A "1" STAMPED ON THE PISTON AND A CORRESPONDING "1" STAMPED ON THE CYLINDER BLOCK IN THE AREA OF THE EFFECTED CYLINDER BORE.



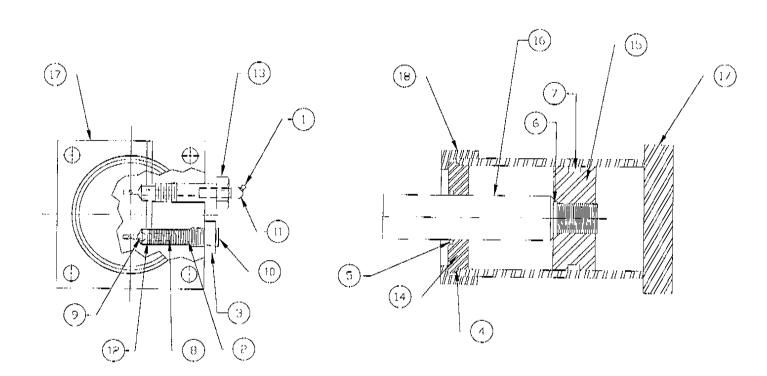
REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	<u>. NÖ.</u>	PART NO.	<u>DESCRIPTION</u>	<u>QTY.</u>
1-22	1	224897-003	CYLINDER BLOCK	1	1-22	14	235790-011	O-RING	1
1.22	2	208148-001	PISTON CL.1	A/R	1-22	15	235790-013	VALVE SPOOL	1
		224897-005	PISTON CL "0"	A/R	1-22	16	235790-015	SPRING	1
1-22	3	84550-029	SPRING	8	1-22	17	235790-017	WASHER	1
1-22	4	208157-001	VALVE SEAL RING KIT	1	1-22	18	235790-019	SNAP RING	1
1-22	5	208151-001	ÇAM RING	1	1-22	19	235790-021	BAÇK PLATE	1
1-22	6	208152-001	O-RING	2	1-22	20	235790-023	BOLT	6
1.22	7	235790-003	VALVING COVER ASSEMBLY	1	1-22	21	208163-001	SHIM	1
1.22	8	235790-005	VALVING COVER	1	1-22	22	208164-001	WASHER	1
1-22	9	235790-007	SCREW	16	1-22	23	224897-015	SNAP RING	1
1-22	10	64078-025	WASHER	2	1-22	24	224897-017	REPAIR KIT-PISTON	1
1-22	11	64078-027	SCREW-BLEEDING	2				•	
1-22	12	83651-025	Q-RING-2.62X145.72	1			235790-001	MOTOR-HYD. (COMPLETE)	
1-22	13	235790-009	VALVING	1				(INC. ALL ITEMS IN THIS FIGURE)	

D40X40/NAVTEC NAVIGATOR (PAGE 1-23)

CYLINDER COMPONENTS - 3 1/2" X 4 3/4" GREASE

Figure 1-23

Revised February 1999 due to update of drawing & parts list.

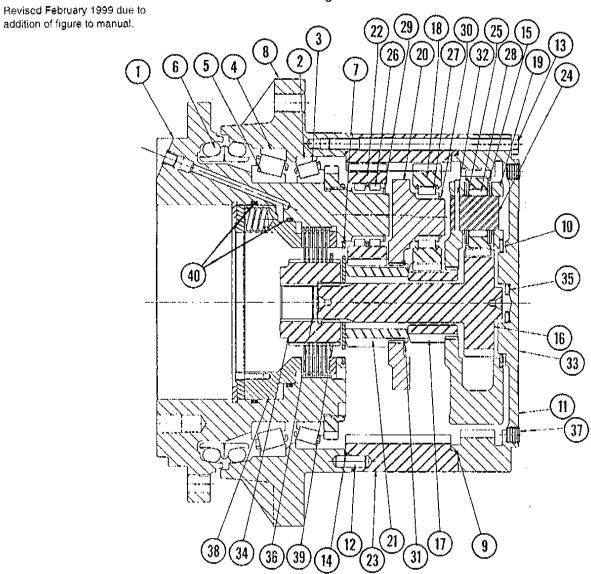


REF	<u>. NO.</u>	<u>P</u> ART NO.	<u>DESCRIPTION</u>	QTY.
1-23	1	88978-001	ZERK-1/8 NPT STR. I FAK PROOF	1
1-23	2	15694-001	WASHER-#6M FLAT	1
1.23	3	429-001	NUT-5/8 NC HEX JAM	1
1.23	4	4350-001	O-RING	1
1-23	5	57300-001	WIPER	1
1-23	6	3211-043	O-RING	1
1-23	7	58138-010	UNI-RING	1
1-23	8	3115-027	SPRINĞ	1
1-23	9	3113-009	BALL-STEEL 5/16	1
1.23	10	15164-001	\$\$\$-5/8-11X1 DOGPOINT/LOCKPATC	1
1-23	11	88979-001	STREET ELBOW-1/8 NPT	1
1-23	12	68581-001	SUPPORT-BALL BEARING	1
1-23	13	68580-003	BOLT ASSY-GREASE	1
1-23	14	68579-001	GLAND	1
1-23	15	68578-001	PISTON	1
1.23	16	68577-001	ROD	1
1-23	17	68574-001	BODY	1
1-23	18	68573-001	CAP	1
		231104-001	CYLINDER-TRACK RELIEF (INC. ALL ITEMS IN THSI FIGURE)	
		68582-001	REPAIR KIT (INC. REF. 4-7)	

(PAGE 1-24) D40X40A/NAVTEC NAVIGATOR

PLANETARY GEARBOX COMPONENTS

Figure 1-24

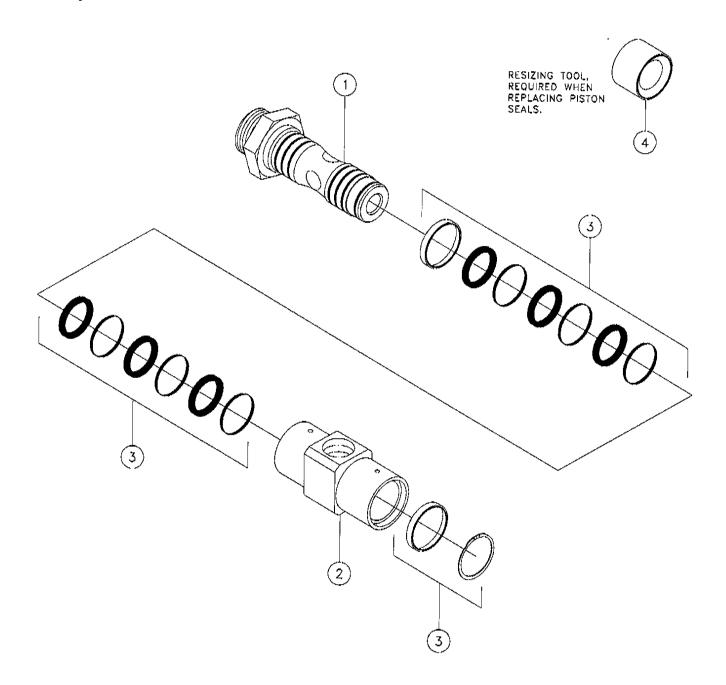


REF	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
1-24	1	214045-003	SPINDLE	1	1-24	22	214045-043	SET	1
1-24	2	214045-005	CUP-TAPERED BEARING	1	1-24	23	214045-045	GEAR-RING	1
1-24	3	214045-007	CONE-TAPERED BEARING	1	1.24	24	214045-047	SHAFT-PLAN ET	3
1-24	4	214045-009	CUP-TAPERED BEARING	1	1.24	25	114280-043	WASHER-THRUST	12
1-24	5	214045-011	CONE-TAPERED BEARING	1	1-24	26	214045-049	BEARING-CYLINDER ROLLER	5
1-24	6	214045-013	SEAL-FACE	1	1.24	27	214045-051	BEARING-CYLINDER HOLLER	3
1-24	7	214045-015	SPACER-THRUST	1	1-24	28	214045-053	BEARING-NEEDLE	57
1-24	8	214045-017	HOUSING	1	1-24	29	114280-035	RET.RING-EXT.	5
1-24	9	214045-019	O-RING	1	1-24	30	214045-055	RETAIN RING-EXTERNAL	3
1-24	10	214045-021	WASHER-THRUST	1	1.24	31	214045-057	RETAINING RING-EXTERNAL	1
1-24	11	901555-055	Pl, ATE-ID #901202	1	1-24	32	114280-037	PIN-ROLL	3
1-24	12	214045-023	PIN-DOWEL	2	1.24	33	214045-059	PLATE-CÖVER	1
1-24	13	214045-025	BOLT-HEX.375-16X6.0 GR8	20	1-24	34	214045-061	COUPLING	1
1.24	14	214045-027	O-RING	1	1-24	35	214045-063	WASHER-THRUST	1
1-24	15	214045-029	GEAR-PLANET	3	1-24	36	214045-065	HETAINING RING-INTERNAL	1
1-24	16	214045-031	GEAR-SUN	1	1-24	37	118586 033	PLUG-PIPE (.250-18)	3
1-24	17	214045-033	GEAR-SUN	1	1-24	38	214045-067	BRAKE-INPUT	1
1-24	18	214045-035	GEAR-PLANET	3	1-24	39	214045-069	RETAINING RING-EXTERNAL	1
1-24	19	214045-037	CARRIER	1					
1-24	20	214045-039	CARRIER	1			214045-001	PLANETARY-GEARBOX (COMPLETE)	
1-24	21	214045-041	GEAR-SUN	1				(INC. ALL ITEMS IN THIS FIGURE)	

WATER SWIVEL COMPONENTS

Figure 1-25

Revised July 1999 due to addition of figure to manual.

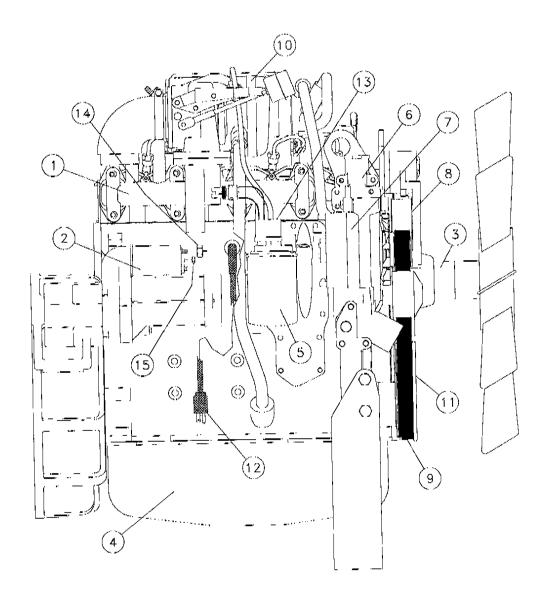


REF.	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.
1-25	1	NSS	STEM	1
1-25	2	NSS	BODY	1
1-25	1-25 3 277834-003		SEAL KIT-SEALS AND SNAP RING	
		277834-005	SEAL KIT-SEALS, SNAP RING AND BRG.	
1-25	4	277834-007	RESIZING TOOL	
		277834-001	SWIVEL-200 GPM WATER (INC. ITEMS 1 THROUGH 3)	

ENGINE COMPONENTS

Figure 2-1

Revised February 1999 due to change of fan belt. Changed part marked with 1.



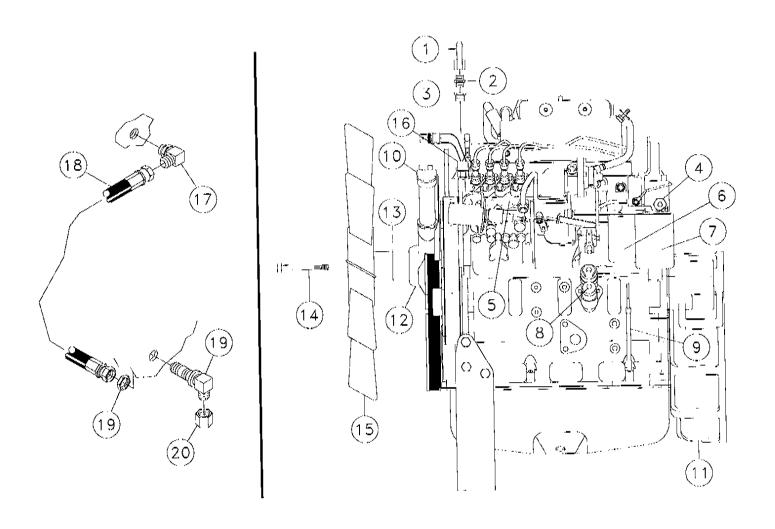
RE	F. <u>NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.
2-1	1	220162-003	■ MANIFOLD-EXHAUST	1			220681-021	ALTERNATOR MOUNTING BOLT-UPPER	ነ 1
		220681-027	◆ EXHAUST MANIFOLD BOLT	8			220681-023	 ALTERNATOR MOUNTING BOLT-LOWER 	R 2
		234218-003	 GASKET-EXHAUST MANIFOLD 	4	2-1	8	234218-005	◆ TENSIONER-BELT	1
2.1	2	103000-001	• STARTER	1	2-1	9	*240826-001	◆ BELT	1
		220681-025	◆ STARTER MOUNTING BOLT	2	2.1	10	234218-009	TURBO	1
2-1	3	220162-009	◆ WATER PUMP	1			234218-011	 GASKET-TURBO 	1
		220681-031	◆ SEAL-RECTANGULAR RING	1	2-1	11	107606-001	 PULLEY-CRANKSHAFT 	1
2-1	4	224558-009	OIL PUMP	1			103011-001	 BOLT-CRANKSHAFT PULLEY 	4
2-1	5	104071-001	FILTER-OIL	1	2-1	12	104067-001	 HEATER-ENGINE 	1
2.1	6	104073-001	• THERMOSTAT	1			104068-001	◆ CABLE-ENGINE HEATER	1
_		104074-001	 GASKET-THERMOSTAT 	1	2-1	13	98678-001	SWITCH-PRESSURE SIN POLE 9 PSI	1
2.1	7	220171-001	ALTERNATOR-MODIFIED 42 AMP	1	2-1	14	61656-001	NUT-10MX1.50 PITCH 934 DIN	1
		5902-001	ALTERNATOR FAN	1	2-1	15	61655-001	NUT-5M X .80 PITCH 934 DIN	1
		220162-039	■ SHEAVE-ALTERNATOR	1					
		220681-019	 ALTERNATOR BRACKET-LOWER 	1			•	ITEMS WARRANTED BY AUTHORIZED	
		220681-017	 ALTERNATOR BRACKET-UPPER 	1				CUMMINS DEALER	

(PAGE 2-2) D40X40/NAVTEC NAVIGATOR

ENGINE COMPONENTS

Figure 2-2

Revised February 1999 due to update of fan pulley. Changed part marked with *.

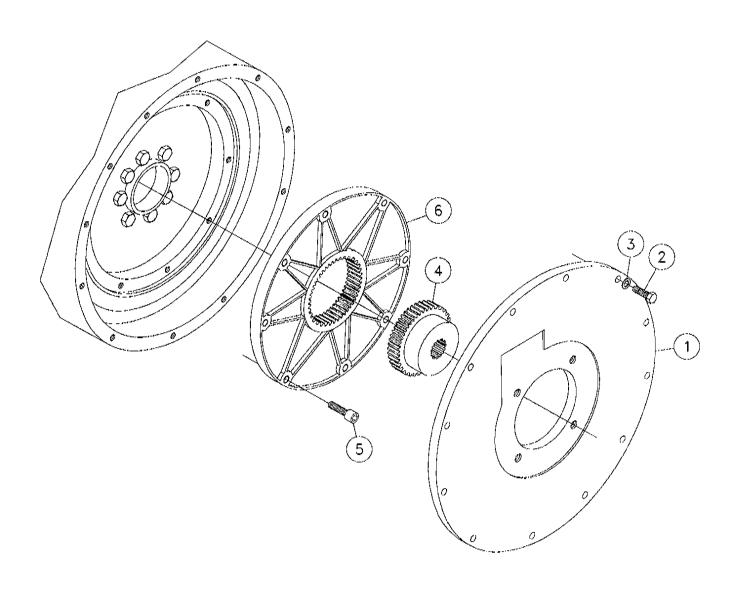


REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	<u>DESCRIPTION</u>	QTY.
2-2	1	103007-001	◆ VALVE CHECK	1	2-2	11	104063-001	• FLYWHEEL	1
2.2	2	103006-001	* COUPLING	1			103027-001	BOL1-FLYWHEEL	8
2-2	3	103005-001	* BUSHING	1	2-2	12	*103019-001	■ PULLEY-FAN	1
2-2	4	11981-001	 SENDER-8992016 WATER TEMP 	1	2-2	13	234218-027	FAN SPACER - 1 ½	1
2-2	5	234218-013	 PUMP-FUEL INJECTION 	1			234218-029	◆ FAN SPACER-2"	1
. –		234218-015	■ GASKET-INJECTION PUMP	1	2-2	14	64111-001	BOLT-M10X110 GR8.8	4
		234218-017	■ INJECTOR-FUEL	4	2-2	15	224953-001	FAN-26" 9 BLADE PUSHER	1
2-2	6	220162-025	FILTER-SECONDARY FUEL	1	2.2	16	22/965-001	SWITCH-TEMPERATURE (220F)	1
2-2	7	220162-023	. FILTER-PRIMARY FUEL W/SEPARATR	. 1	2-2	17	100351-001	ELBOW-10M JICX18-1.5MX90MFTRIC	1
2-2	8	234218-019	■ PUMP-FUEL LIFT	1	2-2	18	53842-281	HOSE-5/8X40 10FS JIC ST/ST (1500)	1
		220681-013	■ FUEL PUMP GASKET	1	2-2	19	77735-001	FITTING-10M JIC BULKHEAD 90 DEG.	1
2-2	9	234218-021	DIPSTICK	1	2-2	20	78062-001	FITTING-10F JIC CAP NUT	1
	•	234218-023	 DIPSTICK TUBE -MIDDLE 	1					
2-2	10	102996-001	CAP-OIL FILL	1			•	ITEMS WARRANTED BY AUTHORIZED CUMMINS DEALER	

D40X40/NAVTEC NAVIGATOR (PAGE 2-3)

PUMP DRIVE ASSEMBLY

Figure 2-3

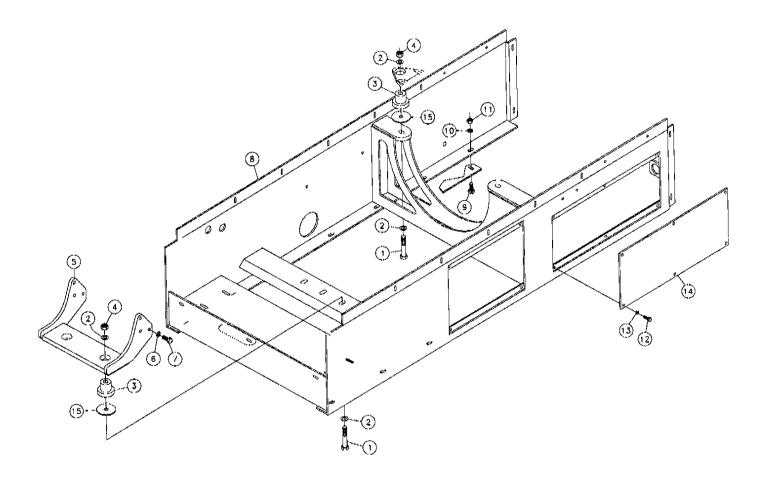


REF. NO. PART NO.		PART NO.	DESCRIPTION	QTY.
2-3	1	249786-001	PLATE-PUMP MOUNT	1
2-3	2	250518-001	BOLT-10MM X 35 MM GR.8 Y/ZINC	12
2-3	3	250519-001	10MM HARD WASHER Y/ZINC	12
2.3	4	224297-001	HUB-FLE65 SERIES 23T SPLINE	1
2.3	5	4478-014	CAPSCHEW-3/8-16X1 1/2 SOCHD G8	8
2.3	6	220075-001	FLANGE-65 FLE-PA 10"FLYWHEEL	1

(PAGE 2-4) D40X40/NAVTEC NAVIGATOR

ENGINE BASE ASSEMBLY

Figure 2-4

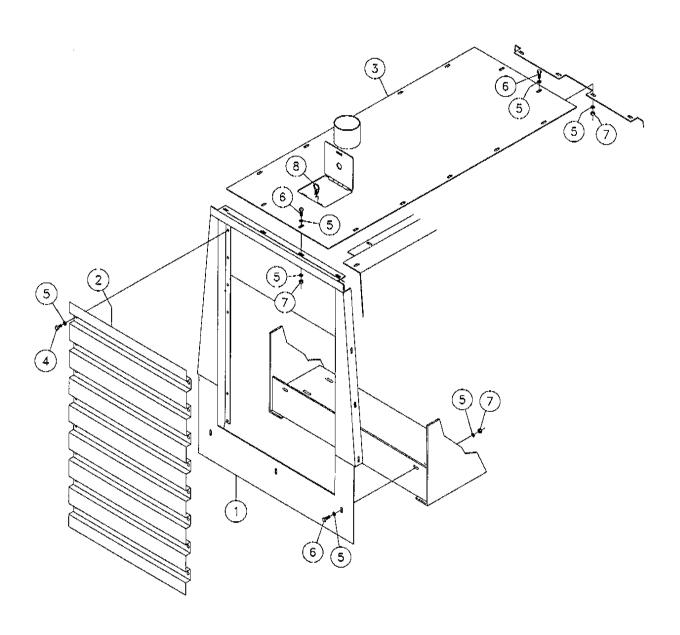


REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
2-4	1	238208-001	BOLT-5/8-11X3 1/2 GR8 HEX ZYC	4
2-4	2	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	8
2-4	3	220165-001	MOUNT-M500-50-NR RUBBER	4
2.4	4	250513-001	NUT-5/8-NC GR8 TOP LOCK Y/Z!NC	4
2.4	5	234238-001	MOUNT-FRONT ENGINE	1
2-4	6	238249-001	12 MM HARD WASHER Y/ZINC	6
2-4	7	250516-001	BOLT-12M X 35M GR.8 Y/ZINC	6
2-4	8	244369-001	BASE-ENGINE	1
2.4	9	377-012	BOLT-1/2-13X1 1/4"GD#5CARRIAGE	14
2.4	10	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	14
2-4	11	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	14
2-4	12	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	6
2-4	13	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	6
2-4	14	244371-001	PLATE-ENGINE ACCESS COVER	1
2-4	15	220203-001	SLUG-ENGINE MOUNT	4

FRONT & TOP ENGINE SHIELD ASSEMBLY

Figure 2-5

Revised July 1999 due to update in illustration & parts list.



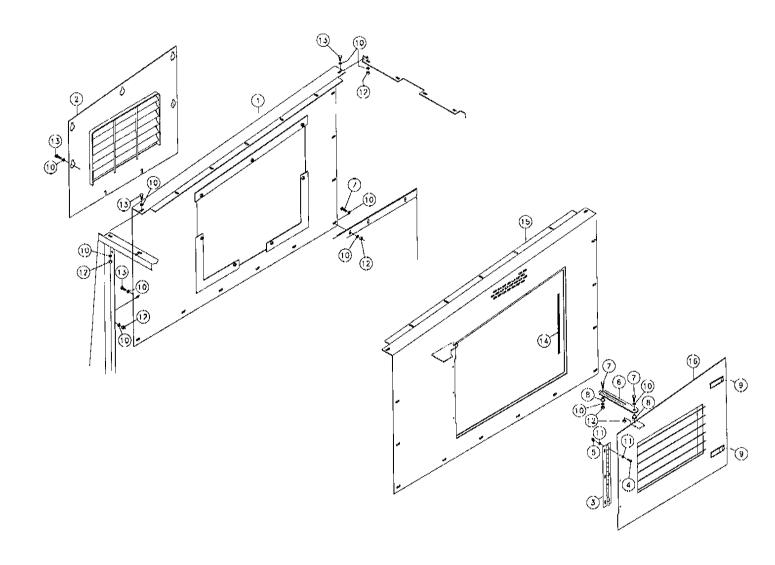
REF. NO. PART NO.		PART NO.	DESCRIPTION	QTY.
2-5	1	235283-001	GRILLE-FRONT	1
2.5	2	235287-001	SCREEN-RADIATOR	1
2-5	3	251358-001	SHIELD-ENGINE TOP	1
2-5	4	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	16
2-5	5	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	50
2.5	6	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	17
2-5	7	235725-001	NUT-3/8-16 GR8 ZINC PLTD	17
2-5	8	86113-001	FASTENER-1/4 TURN	1

(PAGE 2-6) D40X40/NAVTEC NAVIGATOR

SIDE ENGINE SHIELDS ASSEMBLY

Figure 2-6

Revised February 1999 due to update of engine shield door & latch qty. Changed parts marked with *.

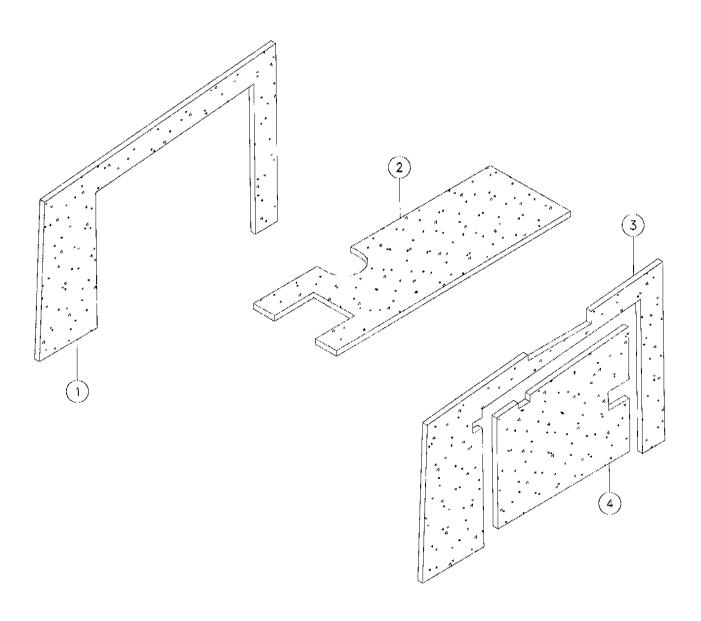


REF.	NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
2-6	1	251360-001	SHIELD-RIGHT SIDE ENGINE	1	2-6	9	*110479-001	LATCH-SEALED LEVER (INC. KEY)	2
2.6	2	251362-001	()OOR-RIGHT ENGINE	1			*97874-003	KEYS	2
2.6	3	225282-001	HINGE-DOOR	1	2-6	10	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	56
2-6	4	235734-001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	6	2.6	11	235716-001	WASHER-1/4 SAE HARD ZING PLTD	12
2-6	5	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	6	2.6	12	235725-001	NUT-3/8-16 GR8 ZINC PLTD	28
		235732-001	NUT-1/4-20 GR8 ZINC PLTD	6	2.6	13	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	19
2-6	6	234152-001	STAY-SHIELD DOOR	1	2-6	14	98436-001	SEAL-SELF ADHESIVE 1/16X1/2	
2-6	7	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	14				(SPECIFY LENGTH)	A/R
2-6	8	96424-001	BOSS-HINGE	2	2.6	15	251359-001	SHIELD-LEFT SIDE ENGINE	1
					2.6	16	251361-001	DOOR-LEFT ENGINE SHIELD	1

D40X40/NAVTEC NAVIGATOR (PAGE 2-7)

SOUND PACKAGE ASSEMBLY

Figure 2-7



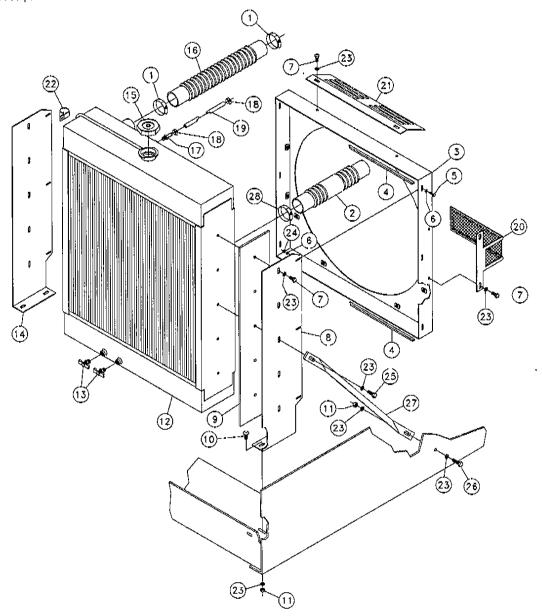
REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	QTY,
2-7	1	251067-001	FOAM - RIGHT SHIELD	1
2-7	2	251066-001	FOAM - TOP SHIELD	1
2.7	3	251069-001	FOAM-LEFT SHIELD	1
2.7	4	251068-001	FOAM - LEFT DOOR	1

(PAGE 2-8) D40X40/NAVTEC NAVIGATOR

RADIATOR ASSEMBLY

Figure 2-8

Revised July 1999 due to change in hose clamps. Added part marked with *.



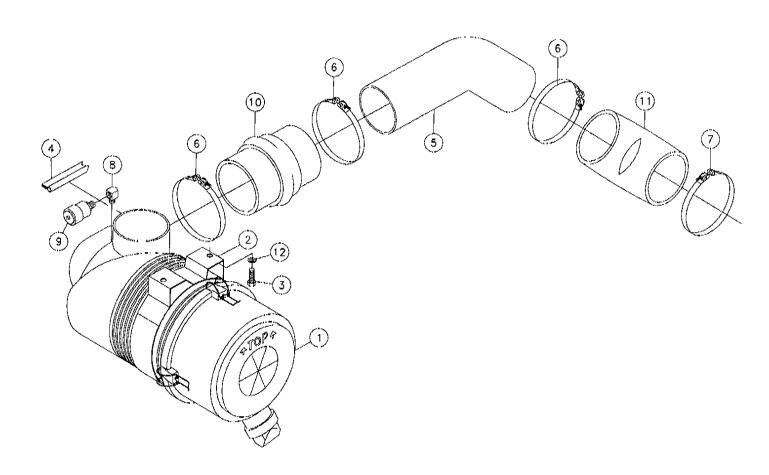
REF	. <u>NO.</u>	PART NO.	DESCRIPTION_	<u>QTY.</u>	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
2-8	1	1580-011	HOSE CLAMP - 2"	4	2-8	15	68125-001	CAP-RADIATOR TR102 (7 PSI)	1
2-8	2	246430-001	HOSE - 2 1/4 X 19 FLEX	1	2-8	16	224849-001	HOSE-1 3/4ID X 19* COOLANT	1
2-8	3	251394-001	SHROUD-FAN	1	2-8	17	102118-001	FITTING-1/4NPT X 3/8 HOSE BARB	1
2-8	4	97456-001	SEAL-BULB EDGE 1/8" STYLE		2-8	18	1580-001	HOSE CLAMP - 3/8"	2
			(SPECIFY LENGTH)	2	2-8	19	57706-001	HOSE-3/8" 200PSI 1 PLY BLACK	
2-8	5	235734-001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	6				(SPECIFY LENGTH)	1
2-8	6	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	12	2-8	20	251401-001	GUARD-FAN	2
2-8	7	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	11	2-8	21	251400-001	SHIELD-FAN	1
2-8	8	238601-001	PLATE-RADIATOR MOUNTING	1	2-8	22	2595-001	HOSE CLAMP - T\$7FR 1/2"	2
2-8	9	238640-001	FOAM - RADIATOR	2	2-8	23	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	18
2-8	10	375-010	BOLT-3/8"-16X1"GD#5 CARRIAGE	4	2-8	24	235732-001	NUT-1/4-20 GR8 ZINC PLTD	6
2-8	11	235725-001	NUT-3/8-16 GR8 ZINC PLTD	5	2-8	25	235727-001	BOLT-3/8-16X1" GR 8 HEX ZINC	1
2-8	12	238636-001	RADIATOR-(13-6272611-3)	1	2-8	26	235736-001	BOLT-3/8-16X1 1/4" GR 8 HEX ZINC	1
2-8	13	225532-005	DRAIN COCK-1/4"	2	2-8	27	251407-001	SUPPORT-RADIATOR	1
2-8	14	238600-001	PLATE-RADIATOR MOUNTING	1	2-8	28	*1580-013	HOSE-CLAMP 2 1/2"	2

D40X40/NAVTEC NAVIGATOR (PAGE 2-9)

AIR CLEANER ASSEMBLY

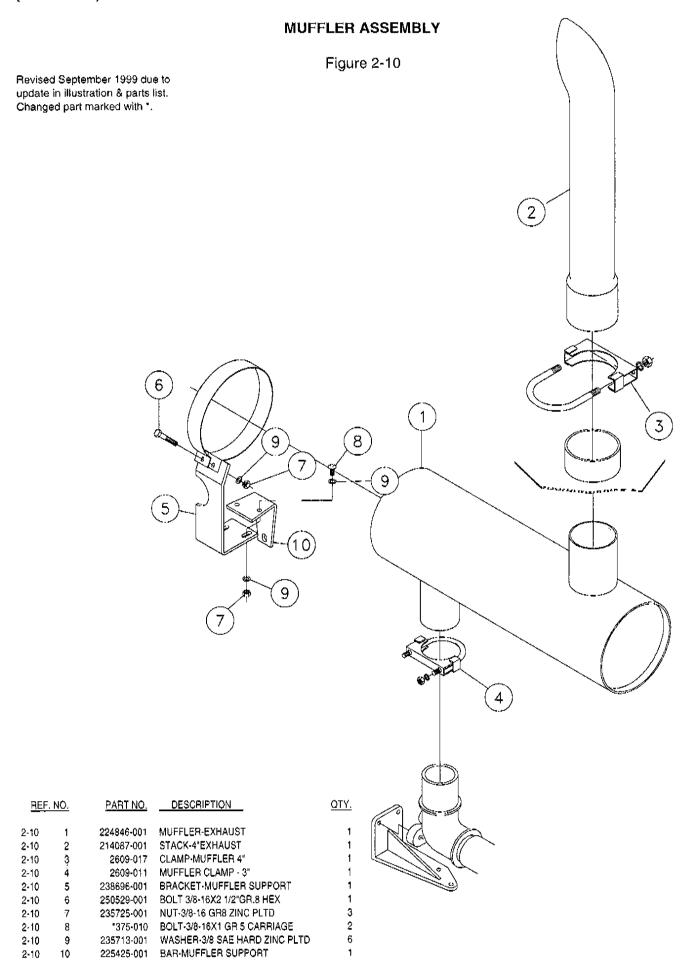
Figure 2-9

Revised February 1999 due to update in parts list. Changed part marked with *.



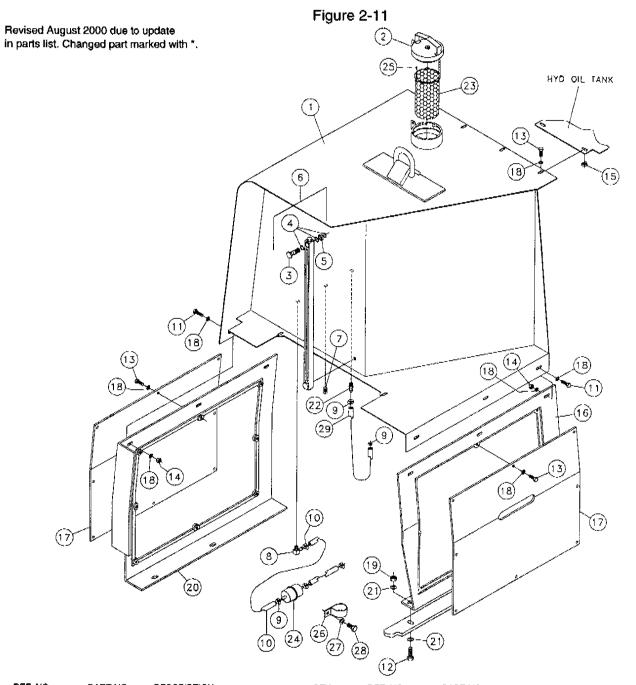
BEF	<u>NQ.</u>	<u>PART NO.</u>	NO. DESCRIPTION	
2.9	1	224847-001	AIR CLEANER (BREAKDOWN FIG. 2-12)	1
2-9	2	220167-001	CLAMP-AIR CLEANER H00-2023	1
2-9	3	235742-001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	2
2.9	4	97456-001	SEAL-BULB EDGE 1/8" STYLE	
			(SPECIFY LENGTH)	A/R
2-9	5	238728-001	TUBE-AIR INTAKE	1
2-9	6	100488-001	CLAMP-AIR CLEANER T-BOLT 4"	3
2-9	7	96072-001	CLAMP-3 1/2" T-BOLT	1
2-9	8	4017-001	FITTING-3400X2 WTHR-HD	1
2-9	9	2165-001	INDICATOR - RAX00-2352	1
2.9	10	238732-001	ADAPTER-3 1/2" ST HOSE HUMP	1
2.9	11	106640-001	ELBOW-3"X3.5" 90 DEG. RUBBER	1
2-9	12	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	2

(PAGE 2-10) D40X40/NAVTEC NAVIGATOR



D40X40/NAVTEC NAVIGATOR (PAGE 2-11)

FUEL TANK ASSEMBLY

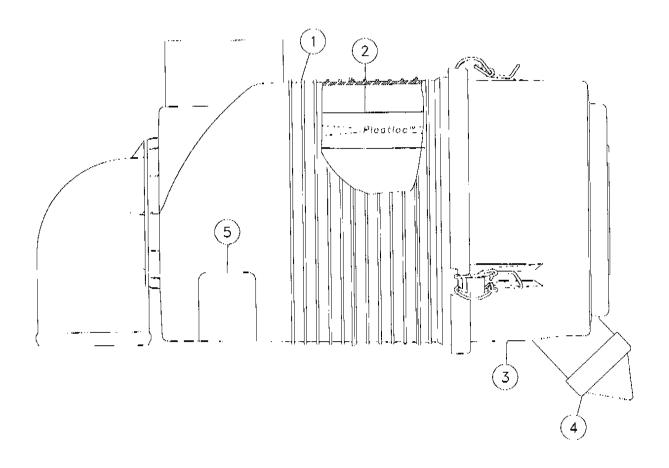


REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
2-11	1	*227841-003	TANK-FUEL	1	2-11	16	227859-001	MOUNT-ENGINE BAY DOOR	1
2-11	2	224985-001	CAP-VENTED FUEL TANK	1	2-11	17	227759-001	LID-ENGINE BAY	2
2-11	3	234349-003	BOLT-12M (SIGHT GAUGE)	2	2-11	18	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	32
2-11	4	227757-003	O-RING	6	2-11	19	235731-001	NUT-1/2-13 GR8 ZINC PLTD	4
2-11	5	227757-005	SPACER	2	2-11	20	227861-001	EXTENSION-ENGINE BOX	1
2-11	6	234349-001	GAUGE-23" SIGHT (BREAKDOWN FIG	G. 2-13) 1	2-11	21	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	4
2-11	7	732-007	1/2" PIPE PLUG BLACK STEEL	1	2-11	22	78171-001	FITTING-1/8MNPTX5/16BARB STR.	1
2-11	8	11384-001	FITTING-1557 WTHR-HD	1	2-11	23	99998-001	STRAINER-6",030 STEEL	1
2-11	9	1578-001	HOSE CLAMP - 1/4"	4	2-11	24	102995-001	STRAINER	1
2-11	10	620-029	HOSE-5/16 FUEL LINE-50"	1	2-11	25	66695-001	SCREW-MACH, 6-32 X 3/8" MACHI	3
2-11	11	235723-001	BOLT-3/8-16X1 1/2 GR8 ZINC PLT	6	2-11	26	230965-001	CLAMP-1 3/4" W/17/32 HOLE	1
2-11	12	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	2-11	27	238249-001	12 MM HARD WASHER Y/ZINC	1
2-11	13	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	20	2-11	28	250501-001	BOLT 12MM X 25MM GR10,9 HEX Y/	1
2-11	14	235725-001	NUT-3/8-16 GR8 ZINC PLTD	6	2-11	29	620-105	FUEL LINE HOSE 5/16 X 62,00	1
2-11	15	415-001	NUT-3/8 NC HEX NUT CLIP	4					

(PAGE 2-12) D40X40/NAVTEC NAVIGATOR

AIR CLEANER COMPONENTS

Figure 2-12

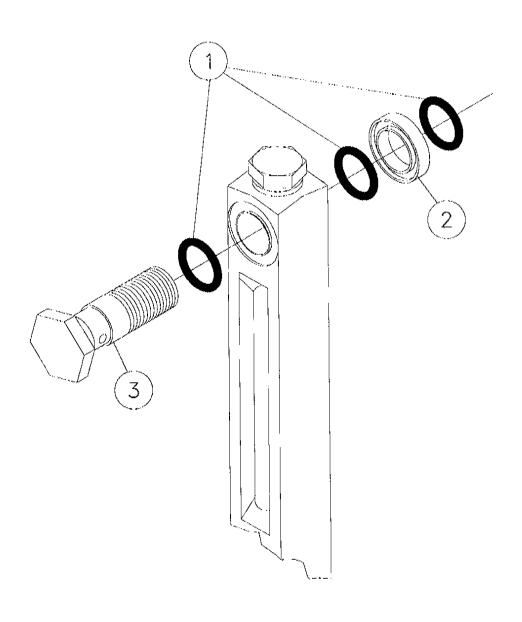


REF.	NO.	<u>PART NO.</u>	DESCRIPTION	<u>OTY.</u>
2-12	1	224847-003	BODY ASSEMBLY	1
2-12	2	220166-005	ELEMENT ASSEMBLY	1
2-12	3	220166-007	COVER ASSEMBLY	1
2-12	4	220166-009	VALVE	1
2-12	5	224847-005	DECAL-INSTRUCTION	1

224847-001 AIR CLEANER (INC. REF. 1-5)

SIGHT GAUGE COMPONENTS

Figure 2-13

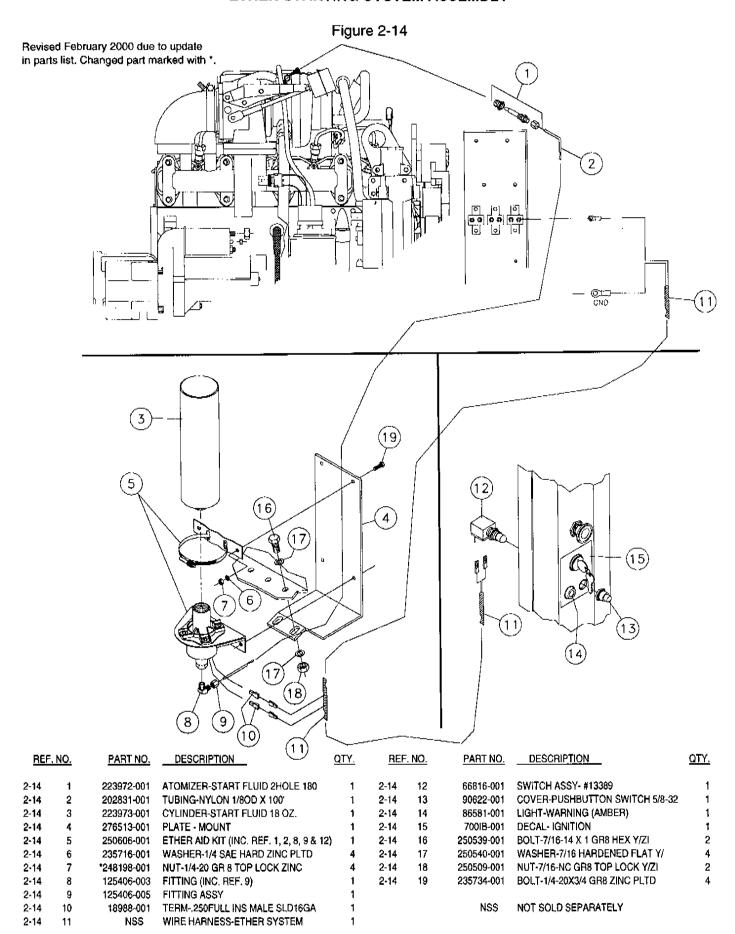


REF.	NO.	PART NO.	DESCRIPTION	QTY.
2·13	1	227757-005	O-RING	6
2·13	2		SPACER	?
2·13	3		BOLT-12M (SIGHT GAUGE)	2

234349-001 GAUGE-23" SIGHT (INC. GAUGE & 1-3)

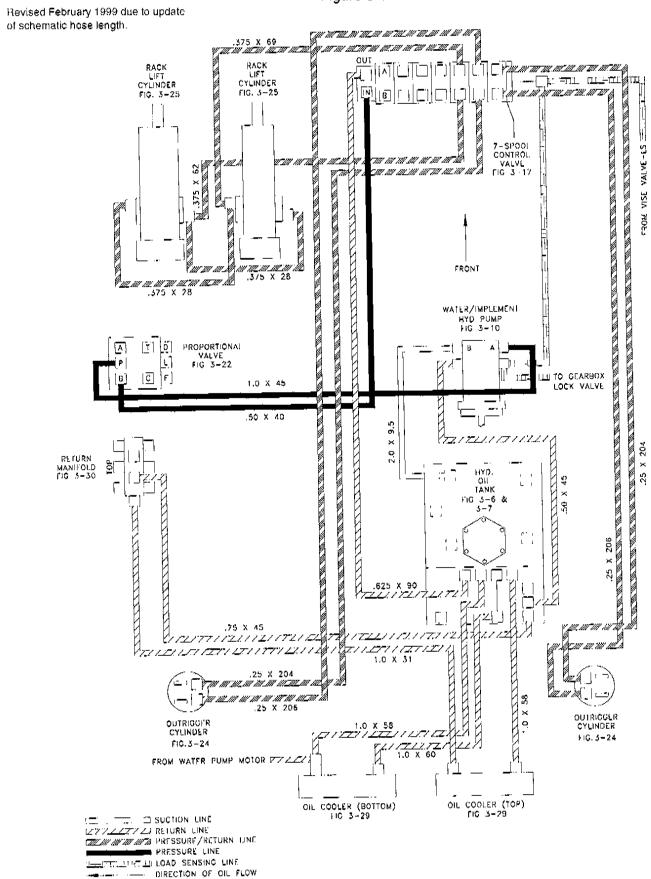
(PAGE 2-14) D40X40/NAVTEC NAVIGATOR

ETHER STARTING SYSTEM ASSEMBLY

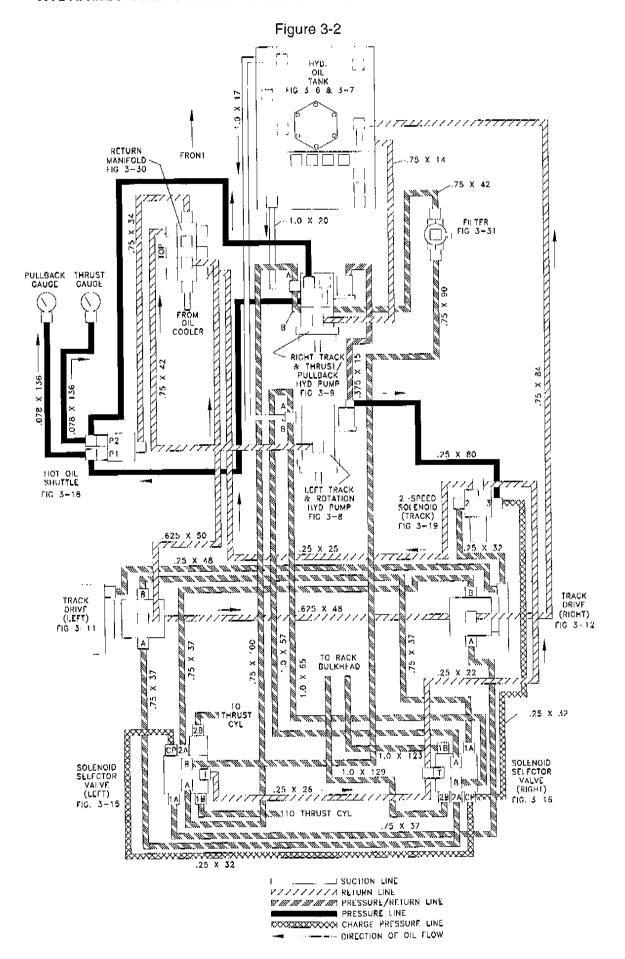


HYDRAULIC COMPONENTS LOCATION DIAGRAM - IMPLEMENT SYSTEM

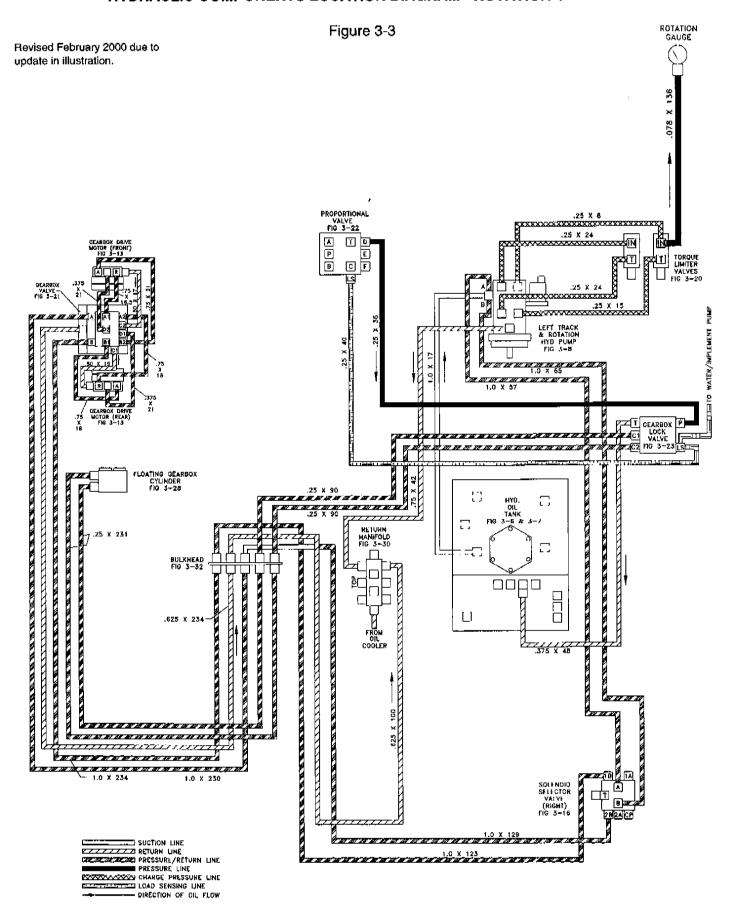
Figure 3-1



HYDRAULIC COMPONENTS LOCATION DIAGRAM - GROUND DRIVE SYSTEM



HYDRAULIC COMPONENTS LOCATION DIAGRAM - ROTATION SYSTEM

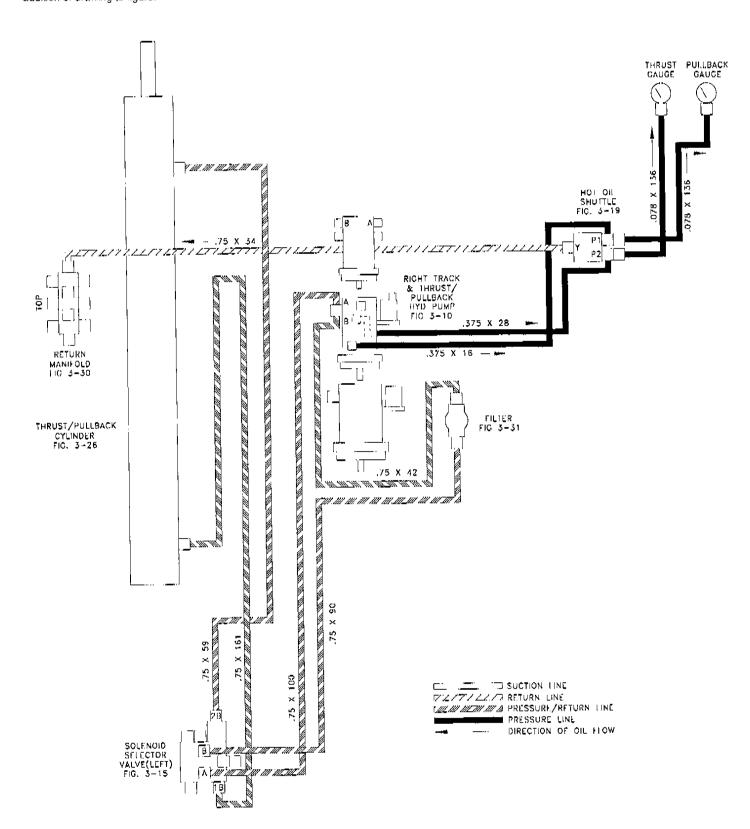


(PAGE 3-4) D40X40/NAVTEC NAVIGATOR

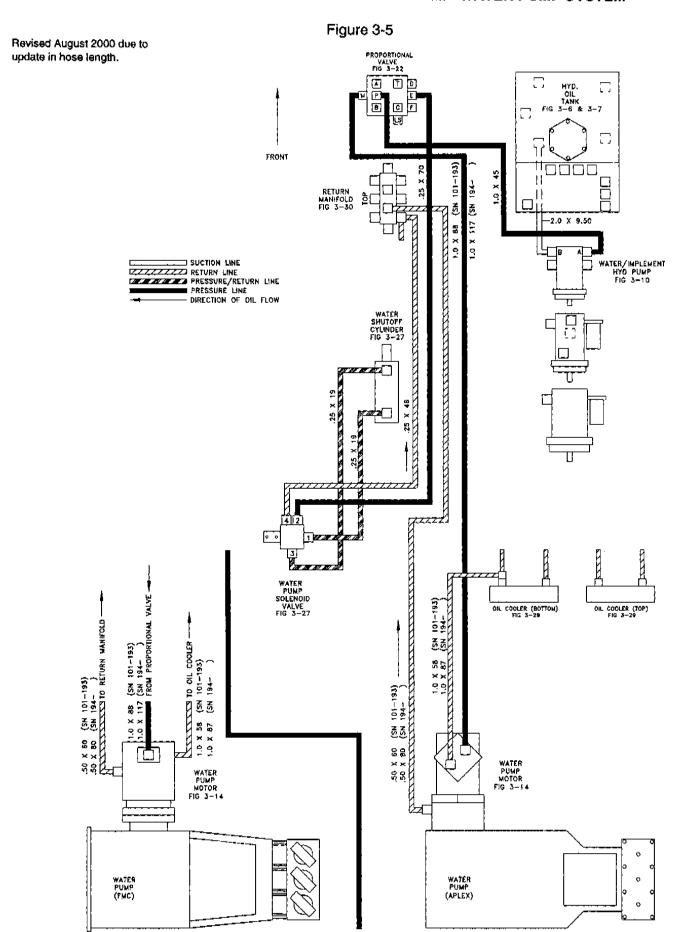
HYDRAULIC COMONENTS LOCATION DIAGRAM - THRUST/PULLBACK SYSTEM

Figure 3-4

Revised Fobruary 1999 due to addition of drawing to figure.



HYDRAULIC COMPONENTS LOCATION DIAGRAM - WATER PUMP SYSTEM



(PAGE 3-6) D40X40/NAVTEC NAVIGATOR

OIL TANK ASSEMBLY

Figure 3-6

Revised August 2000 due to update in illustration & parts list. Changed parts marked with *.

REF. NO.

2

3

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3-6

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3-6

3-6

3-6

PART NO.

244486-001

235726-001

235725-001

98681-001

81590-001

235808-001

1802-006

480-001

78544-001

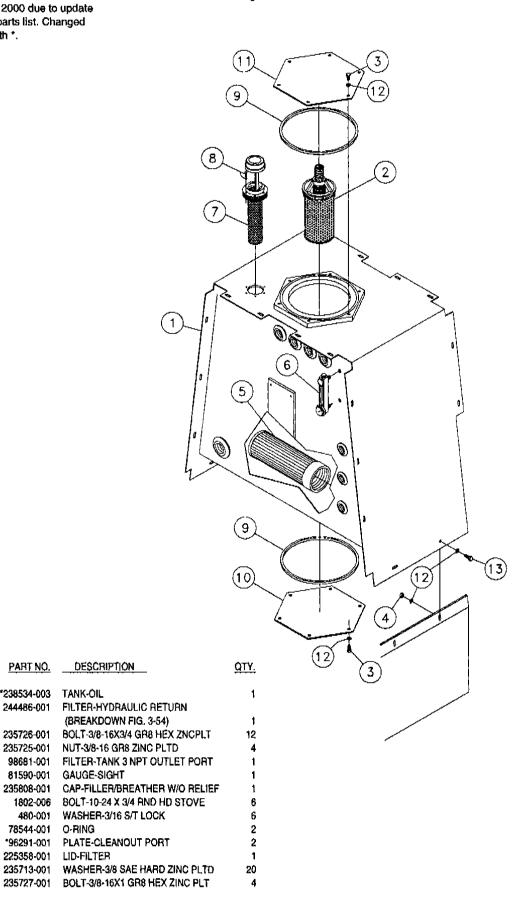
*96291-001

*238534-003 TANK-OIL

GAUGE-SIGHT

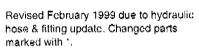
O-RING

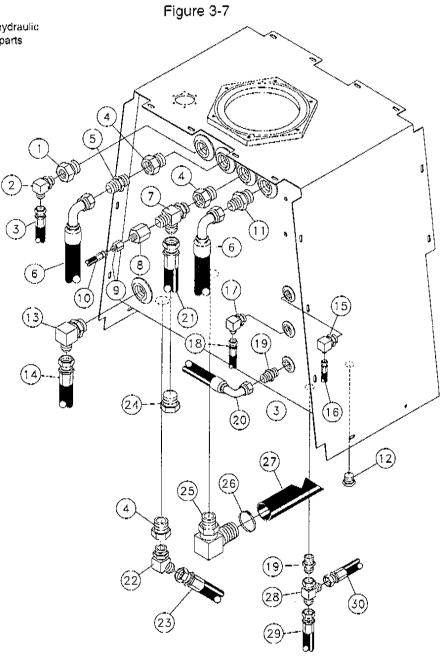
225358-001 LID-FILTER



D40X40/NAVTEC NAVIGATOR (PAGE 3-7)

OIL TANK PLUMBING ASSEMBLY





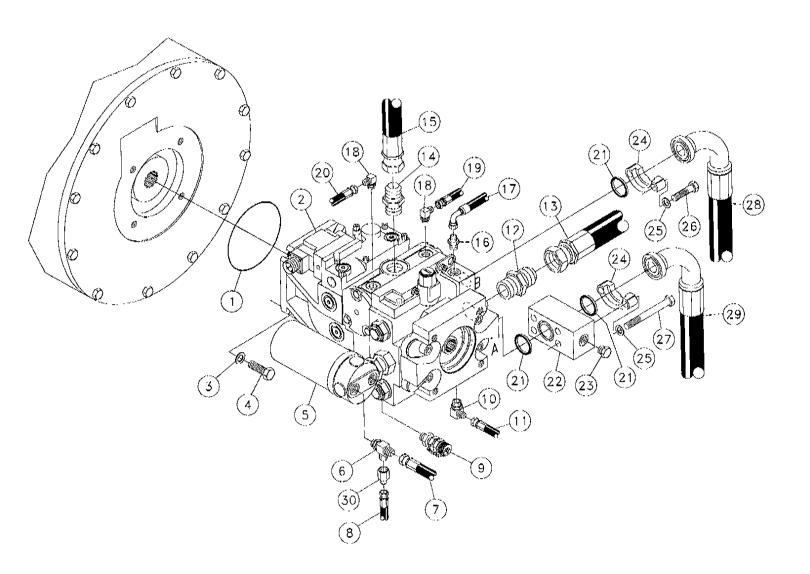
BE	. NO.	<u>PART NO.</u>	DESCRIPTION	OTY.	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-7	1	86669-001	FITTING-20M ORINGX12F ORING ST	2	3-7	16	57940-467	HOSE-3/8X60 6FS JIC 3000 PSI	1
3-7	2	70029-001	REPLACED BY 59409-001-1	1	3.7	1/	57949-001	FITTING-12MX8M JIC 90 DFG. EL.	1
3-7	3	53842-089	HQ\$E-5/8X90 10F\$ JIC 2750 P\$I	1	3.7	18	251015-001	HOSE-1/2 X 45 8 FSJIC ST/90	1
3-7	4	79498-001	FITTING-20MX16F ST. REDUCER	2	3.7	19	244464-001	VALVE-CHECK (30 PSI CRACK)	2
3.7	5	*246431-001	VALVE-CHECK 30 PSI	1	3-7	20	251013-001	HOSE-3/4X45 12FSJIC \$1/90 3000	1
3-7	6	*246427-001	HOSE-1X58" 16FS JIC St/90 100R4	2	3-7	21	53846-019	HOSE-1X60 16FS JIC (100R4)	1
3.7	7	94565-001	TEE-16MJICX16MOR RUNX16MJIC	1	3-7	22	53835-001	#16M O-RING-#16M JIC 45 DEG.	1
3-7	8	81581-001	FITTING-8MX16F REDUCER	1	3-7	23	53846-223	HOSE-1X17 16FS JIC 250 PSI	1
3-7	9	61500-001	8 JIC F X 6 JIC M STR.	1	3-7	24	81704-001	FITTING-20M PLUG	1
3-7	10	57940-747	HOSE-3/8X48 6FS JIC 3000 PSI	1	3-7	25	244475-001	FITTING-20 MORING X 2"HS BD 90	1
3-7	11	85657-001	FITTING-20M X 16M JIC STR.	1	3.7	26	224938-001	CLAMP-2" T-BOLT	1
3-7	12	*67570-001	PLUG-12M	1	3.7	27	244057-001	HOSE-2" ID X 9.5"	1
3-7	13	85661-001	FITTING-20MORINGX16MJIC 90 DEG	1	3.7	28	59417-001	12 JIC SW RUN TEE	1
3-7	14	53846-001	HOSE-1X20 16F\$ JIC (100R4)	1	3.7	29	53845-007	HOSE-3/4X84 12FS JIC (100R4)	1
3.7	15	102115-001	FITTING-12M X 6M JIC 90 DEG.	1	3.7	30	53845-38 9	HOSE-3/4X14 12FS JIC 300 PSI	1

(PAGE 3-8) D40X40/NAVTEC NAVIGATOR

HYDRAULIC PUMP ASSEMBLY (LEFT TRACK/ROTATION)

Figure 3-8

Revised February 1999 due to change in bolt length. Changed part marked with *.



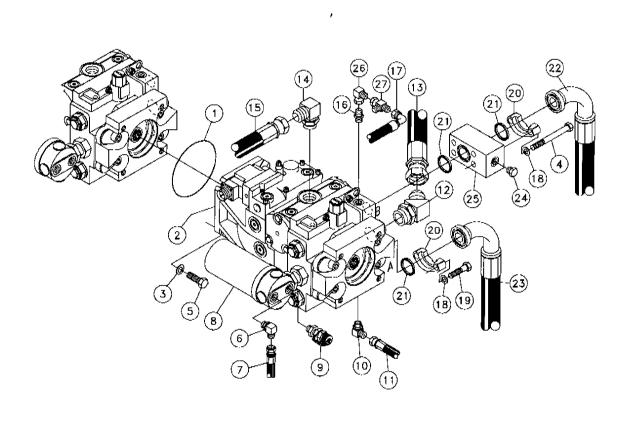
REF	<u>NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u> </u>	REF	. NO.	PART NO.	<u>DESCRIPT</u> ION	QTY.
3-8	1	85642-163	O-RING	1	3-8	16	57968-001	6M O-RING 4M JIC STRAIGHT	1
38	2	251034-001	PUMP-90 SERIES 55 CC EDC	1	3-8	17	251008-001	HOSE-1/4 X24 4FSJIC ST/90 6000	1
3-8	3	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	4	3-8	18	59423-001	FIT-4M JICX4M ADJ.90 DFG.ELBOW	2
3-8	4	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	3-8	19	251009-001	HOSE-1/4 X 24 4 FSJIC 6000	1
3.8	5	81902-001	FILTER-OIL	1	3-8	20	251010-001	HOSE-1/4 X 15 4 F\$JIC 6000	1
3.8	6	68774-001	FITTING-6MX6M JIC (RUN)X6M JIC	1	3-8	21	72895-001	Q RING-SQ. #16 FLANGE	3
3.8	7	251016-001	HOSE-3/8 X 15 6 FSJIC 3000	1	3-8	22	234780-001	BLOCK-CODE 62	1
3-8	8	53843-237	HQSE-1/4X80 4FS JIC 3000 PSI	1	3-8	23	83635-001	PLUG-#6 JIC MALE	1
3-8	9	72056-001	COUPLER-DIAG, TCM-20 9/16NF	1	3-8	24	67745-001	SPLIT FLANGE HALF CODE 62/16	4
3-8	10	57950-001	FITTING-6M X 4 JIC 90 DEG.	1	3-8	25	250540-001	WASHER-7/16 HARDENED FLAT Y/	8
3-8	11	251011-001	HOSE 1/4 X 8 4 FSJIC 6000	1	3.8	26	250507-001	BOLT 7/16-14 X 1 3/4"GR8 HEX Y	4
3-8	12	60907-001	FITTING-16M JICX16M STR ADAPT	1	3-8	27	*246438-001	BOLT-7/16-14X3 3/4 GR 8 HEX ZINC	4
3-8	13	53846-001	HOSE-1X20 16FS JIC (100R4)	1	3-8	28	251053-001	HOSE-1X65 16/62/90 16FSJICG000	1
3-8	14	53828-001	#12M O-RING-#12M JIC ST.	1	3-8	29	251052-001	HOSE-1X57 16/62/90 16FSJICG000	1
3-8	15	53845-083	HOSE-3/4X42 12FS JIC (100R4)	1	3-8	30	59928-001	6F JICX4M JIC ST REDUCER	1

D40X40/NAVTEC NAVIGATOR (PAGE 3-9)

HYDRAULIC PUMP ASSEMBLY (RIGHT TRACK/THRUST-PULLBACK)

Figure 3-9

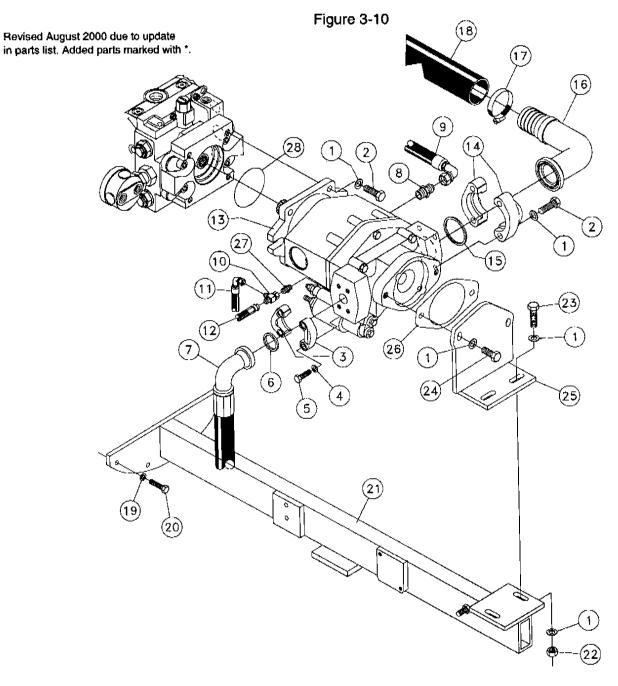
Revised February 2000 due to update in illustration & parts list. Added parts marked with *.



REF	. NO.	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	. N <u>O.</u>	PART NO.	DESCRIPTION	QTY.
3-9	1	85642-163	O-RING	1	3-9	15	53845-389	HQSE-3/4X14 12FS JIC 300 PSI	1
3-9	2	251035-001	PUMP-90 SERIES 55CC EDC	1	3-9	16	65565-001	FITTING-6M X 6M JIC ST.	1
3-9	3	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	4	3-9	17	57940-501	HOSE-3/8X28 6FS JIC ST/6FSJC90	1
3-9	4	246438-001	BOLT-7/16-14X3 3/4" GR 8 HEX ZINC	4	3-9	18	250540-001	WASHER-7/16 HARDENED FLAT Y/	8
3-9	5	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	3-9	19	250507-001	BOLT 7/16-14 X 1 3/4"GR8 HEX Y	4
3-9	6	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	1	3-9	20	67745-001	SPLIT FLANGE HALF CODE 62/16	4
3-9	7	251016-001	HOSE-3/8 X 15 6 FSJIC 3000	1	3-9	21	72895-001	O RING-SQ, #16 FLANGE	3
3-9	8	81902-001	FILTER-OIL	1	3-9	22	53845-791	HOSE 3/4X42 12JIC16/62/90 5000	1
3-9	9	72056-001	COUPLER-DIAG, TCM-20 9/16NF	1	3-9	23	250618-001	HOSE-3/4X100 12FSJICST16/62/90	1
3-9	10	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	1	3-9	24	83635-001	PLUG-#6 JIC MALE	1
3-9	11	57940-375	HOSE-3/8X16 6FS JIC SAE-100R2	1	3-9	25	234780-001	BLOCK-CODE 62	1
3-9	12	53835-001	#16M O-RING-#16M JIC 45 DEG.	1	3-9	26	*60851-001	FITTING-6M JIC X 6FS JIC 90 EL (SN176-)) 1
3-9	13	53846-223	HOSE-1X17 16FS JIC 250 PSI	1	3-9	27	*59427-001	TEE-6M JIC BCH 6FS JIC 6M JIC (SN176-) 1
3-9	14	59410-001	12M JICX12M ADJ, 90 DEG,ELBOW	1				·	

(PAGE 3-10) D40X40/NAVTEC NAVIGATOR

HYDRAULIC PUMP ASSEMBLY - WATER/IMPLEMENT

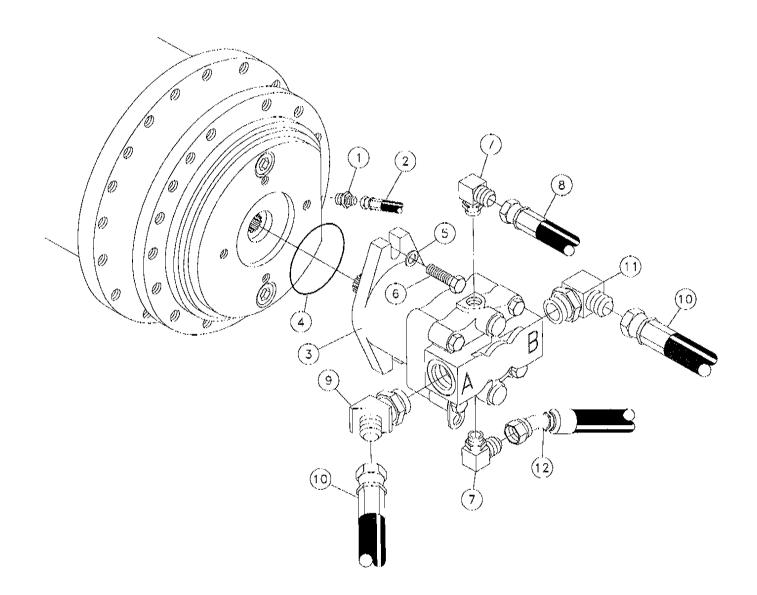


REF	. NO.	PART NO.	DESCRIPTION	OTY.	REF	. NQ.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-10	1	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	8	3-10	14	73114-001	FITTING-CODE 61,#32 FLANGE	2
3-10	2	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	8	3-10	15	72898-001	O RING-SQ. #32 FLANGE	1
3-10	3	249155-001	FLANGE-SPLIT (HALF) CODE 61/16	2	3-10	16	244477-001	FITTING-2* CODE61X2* HOSE BD90	1
3-10	4	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	3-10	17	224938-001	CLAMP-2" T-BOLT	1
3-10	5	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	4	3-10	18	244057-001	HOSE-2" ID X 9.5"	1
3-10	6	72895-001	O RING-SQ. #16 FLANGE	1	3-10	19	240061-001	WASHER-10MM HARDENED FLAT ZNC	4
3-10	7	251014-001	HOSE-1 X 45 16 FSJIC ST/16/61/	1	3-10	20	250574-001	BOLT-10M X 50M 10.9 HEX Y/ZINC	4
3-10	8	53824-001	FITTING-#8M O-RING-#8M JIC ST.	1	3-10	21	224430-001	SUPPORT-PUMP	1
3-10	9	251015-001	HOSE-1/2 X 45 B FSJIC ST/90	1	3-10	22	235731-001	NUT-1/2-13 GR8 ZINC PLTD	2
3-10	10	60248-001	TEE-4M JIC X 4M JIC X 4FS JIC	1	3-10	23	240334-001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	2
3-10	11	53843-659	HOSE-1/4X35 4FS JIC 3000 PSI	1	3-10	24	235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	2
3-10	12	53843-145	HOSE-1/4X30 4FS JIC (100R2)	1	3-10	25	249805-001	SUPPORT-PUMP	1
3-10	13	240860-001	PUMP-PFC 4,21 CID LS	1	3-10	26	103032-001	GASKET	1
		*240860-007	COMPENSATOR-PRESSURE FLOW		3-10	27	60908-001	FITTNG-4M X 4M JIC ST ADAPT	1
		*240860-005	SEAL KIT-PUMP/COMPENSATOR		3-10	28	85642-163	O-RING	

TRACK DRIVE MOTOR ASSEMBLY (LEFT)

Figure 3-11

Revised February 1999 due to bolt length change. Changed part marked with *.



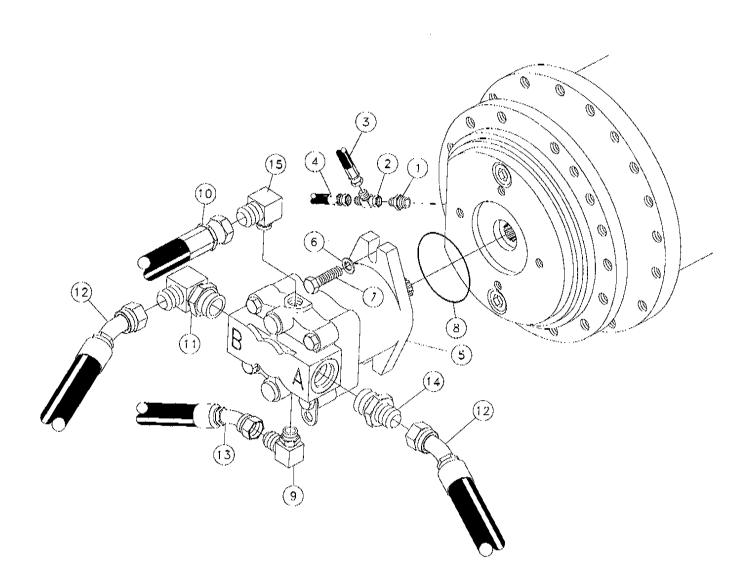
REF.	REF, NO. PART, NO.		DESCRIPTION	<u>QTY.</u>
3-11	1	103058 001	FITTING-M12X1,5X4M JIC STA,	1
3-11	2	53843-709	HOSE-1/4X48 4FS JIC 3000 PSI	1
3.11	3	200873-001	MQTOR-MDT46	1
3-11	4	903382-001	O-RING	1
3-11	5	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	2
3-11	6	*235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2
3-11	7	53823-001	#8M O-RING-#10M JIC 90 DEG.	2
3-11	8	53842-047	HOSE-5/8X50 10FS JIC (100R2)	1
3-11	9	81212-001	FITTING-16MX12M JIC 45 ELBOW	1
3-11	10	53845-615	HOSE-3/4X37 12FSJICST/45D5000#	2
3-11	11	78057-001	FITTING-16MX12M JIC 90 DEG	1
3-11	12	232127-025	HOSE-5/8X48 10F\$JIC45/10FSJC45	1

(PAGE 3-12) D40X40/NAVTEC NAVIGATOR

TRACK DRIVE MOTOR ASSEMBLY (RIGHT)

Figure 3-12

Revised February 1999 due to bolt longth change. Changed part marked with *.



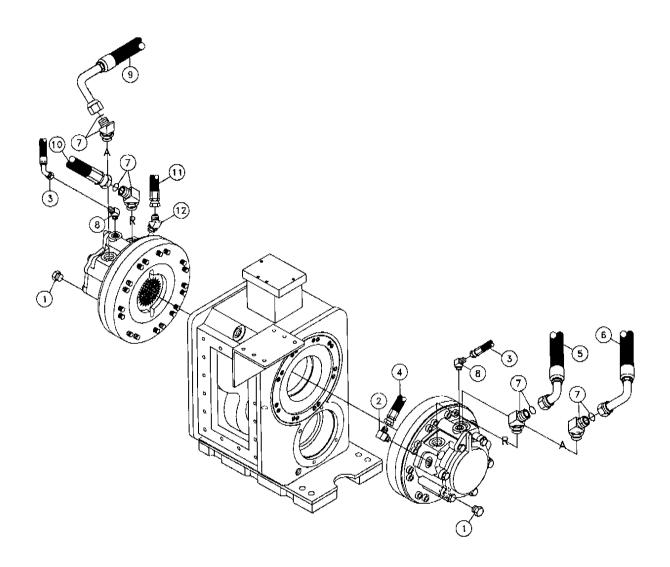
REF	<u>, NQ.</u>	<u>PART NÔ.</u>	DESCRIPTION	<u>QTY.</u>
3-12	1	103058-001	FITTING-M12X1.5X4M JIC STR.	1
3-12	2	60248-001	TEE-4M JICX4M JICX4FS JIC	1
3-12	3	53843-253	HOSE-1/4X32 4FS JIC 2750 PSI	1
3-12	4	53843-709	HOSE-1/4X48 4FS JIC 3000 PSI	1
3.12	5	200873-001	MQ(QR-MDT46	1
3-12	6	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	2.
3-12	7	1235721-001	BOLT-1/2-13X1 1/2 GR8 HEX ZINC	2
3-12	8	903382-001	O-RING AS-155	1
3-12	9	53823-001	#8M O-RING-#10M JIC 90 DEG.	1
3-12	10	53845-007	HOSE-3/4X84 12F\$ JIC (100R4)	1
3-12	11	78057-001	FITTING-16MX12M JIC 90 DEG	1
3-12	12	53845-615	HOSE-3/4X37 12FSJICST/45D5000#	2
3-12	13	232127-025	HOSE-5/8X48 10FSJIC45/10FSJC45	1
3-12	14	70008-001	FITTING-16M X 12M JIC STR.	1
3-12	15	59411-001	12M JICX8M ADJ, 90 DEG.ELBOW	1

D40X40/NAVTEC NAVIGATOR (PAGE 3-13)

ROTATION DRIVE MOTOR HYDRAULICS ASSEMBLY

Figure 3-13

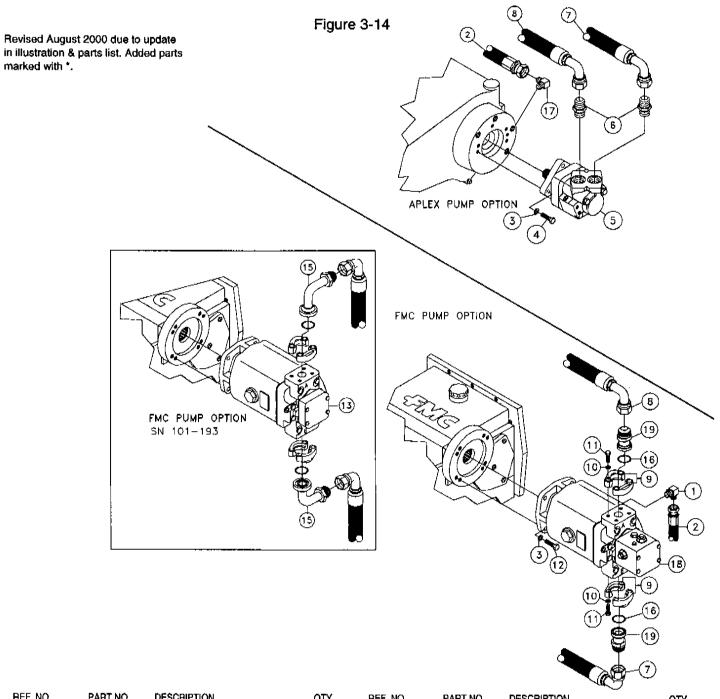
Revised August 2000 due to update in illustration.



REF	EF. NO. PART NO.		DESCRIPTION	<u>QTY.</u>
3-13	1	56218-001	PLUG-#8M	2
3-13	2	53837-001	FITTING-8M O-RING X 8M JIC 90 DEG	1
3-13	3	279794-001	HOSE-3/8X21 10FS JIC ST/90 M3K	2
3-13	4	279793-001	HOSE-1/2X19 8FS JIC ST/ST M3CK	1
3-13	5	279789-001	HOSE-3/4X18 12FFORX 90S/90L G6K	1
3-13	6	279790-001	HOSE-3/4X18 12FFORX 90L/90L G6K	1
3-13	7	279782-001	FITTING-FLTF-45D-12MORSX12M	4
3-13	8	65563-001	FITTING-6M O-RING X 6M JIC 45 DEG	2
3-13	9	279791-001	HOSE-3/4X21 12FFORX 90L/90/ G6K	1
3-13	10	279788-001	HOSE-3/4X16.25 12FFORX 90S/ST G6K	1
3-13	11	279792-001	HOSE-1/2X17 8F\$ JIC ST/90	1
3-13	12	53834-001	#8M O-RING #8M JIC 45 DEG	1

(PAGE 3-14) D40X40/NAVTEC NAVIGATOR

WATER PUMP DRIVE MOTOR ASSEMBLY



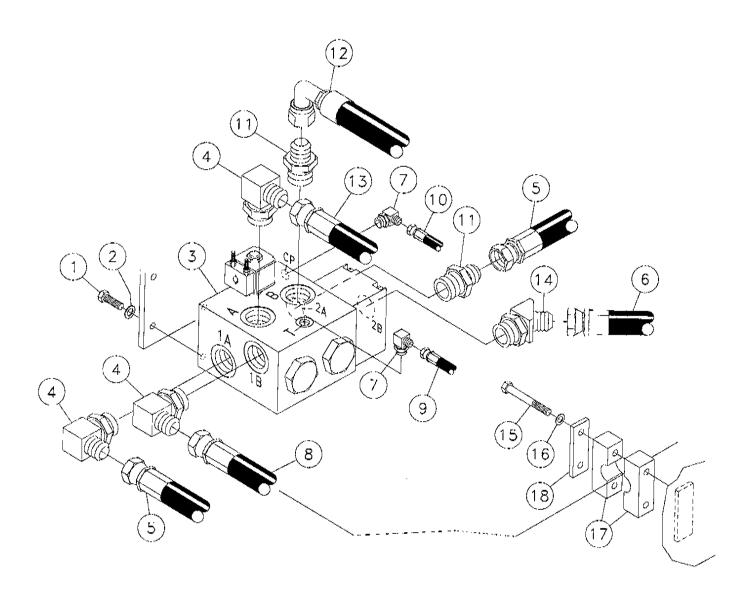
HE	NO.	PART NO.	DESCRIPTION	<u> 2TY.</u>	REF.	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	
3-14	1	57949-001	12M X 8M JIC 90 DEG.	1	3-14	9	249155-001	FLANGE-SPLIT (HALF) CODE 61/16	4	
3-14	2	53844-131	HOSE-1/2X60 8F\$ JIC (100R1) (\$N101-193	3) 1	3-14	10	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	8	
		*53844-127	HOSE-1/2X80 8FS JIC (100R1) (SN194-)	1	3-14	11	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	8	
3-14	3	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	8	3-14	12	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	
3-14	4	240334-001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	4	3-14	13	276518-001	MOTOR - 6.4 CLEMC WATER PUMP	·	
3-14	5	244461-001	MOTOR-6000 SERIES 19 CID	1				(SN101-193)	1	
3-14	6	60907-001	FITTING-16M JIC X 16M STR ADAPT	2	3-14	14	72895-001	O RING-SQ, #16 FLANGE	2	
3-14	7	246427-001	HOSE-1X58 16F\$ JIC ST/90 100R4		3-14	15	249051-001	FITTING-SPLIT FLANGE 16 90 DEG	_	
			(SN101-193)	1				(SN101-193)	2	
		*287084-001	HOSE-1X87 16FS JIC ST/90 2000 PSI		3-14	16	72895-001	O-RING SQ #16 FLANGE	2	
			(SN194-)	1	3-14	17	53832-001	1/2" PIPE - #8M JIC 90 DEG.	- 1	
3-14	8	251093-001	HOSE-1X88 16 FSJIC ST/90 3000		3-14	18	*283615-001	MOTOR-HYD, 6.4 AXIAL PISTON THD	-	
			(SN101-193)	1				HPRV (SN194-)	1	
		*287083-001	HOSE-1X117 16FS JIC ST/90 3000 PSI		3-14	19	*287089-001	ADAPTER-CODE 61 SPLIT FLANGE 16 ST	r	
			(SN194-)	1		• •		(SN194-)	2	

D40X40/NAVTEC NAVIGATOR (PAGE 3-15)

SELECTOR VALVE ASSEMBLY (LEFT)

Figure 3-15

Revised February 1999 due to update of control valve & addition of breakdown to manual. Changed part marked with *.



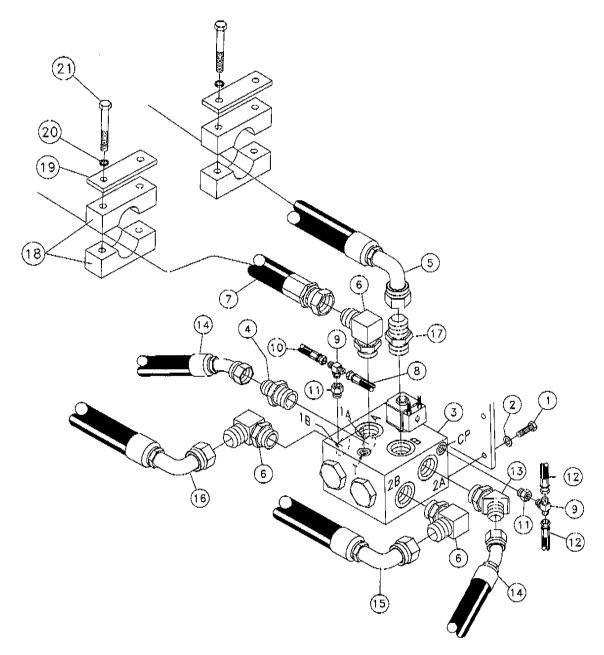
REF	<u>, NO.</u>	<u>PART NÖ.</u>	DESCRIPTION	<u>QTY.</u>	HEF	<u>. NO.</u>	PART NO.	DESCRIPTION	QIY.
3-15	1	250539-001	BOLT-7/16-14 X 1 GR8 HEX Y/ZI	4	3-15	10	53843-253	HOSE-1/4X32 4FS JIC 2750 PSI	1
3-15	2	250540-001	WASHER-7/16 HARDENED FLAT Y/	4	3.15	11	70008-001	FITTING-16M X 12M JIC STR.	2
3-15	3	*251061-001	VALVE-SOLENOID SELECT W/CHECK		3-15	12	251051-001	HQSE-3/4X90 12F\$JIC ST/90 5000	1
			(BREAKDOWN FIG. 3-33)	1	3-15	13	250618-001	HOSE-3/4X100 12FSJICST16/62/90	1
3-15	4	7 8057-001	FITTING-16MX12M JIC 90 DEG	3	3.15	14	81212-001	FITTING-16MX12M JIC 45 ELBOW	1
3-15	5	53845-615	HOSE-3/4X37 12FSJICST/45D5000#	2	3-15	15	235743-001	BOLT-3/8-16X3 GR8 HEX ZNC PLTD	2
3-15	6	53845-773	HOSE-3/4X59 12FSJICST/90 5000#	1	3-15	16	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	2
3-15	7	600118-001	FITTING-6MORINGX4MJIC90PARKER	2	3-15	17	217034-003	CLAMP HALF-PLASTIC 1 1/4" ID	2
3-15	8	53845-779	HOSE-3/4X161 12FSJICST/90 5000	1	3-15	18	71220-007	PLATE-HOSE CLAMP TOP	1
3-15	9	53843-239	HOSE-1/4X26 4FS JIC 3000 PSI	1					

(PAGE 3-16) D40X40/NAVTEC NAVIGATOR

SELECTOR VALVE ASSEMBLY (RIGHT)

Figure 3-16

Revised July 1999 due to addition of hose clamps. Added parts marked with *.

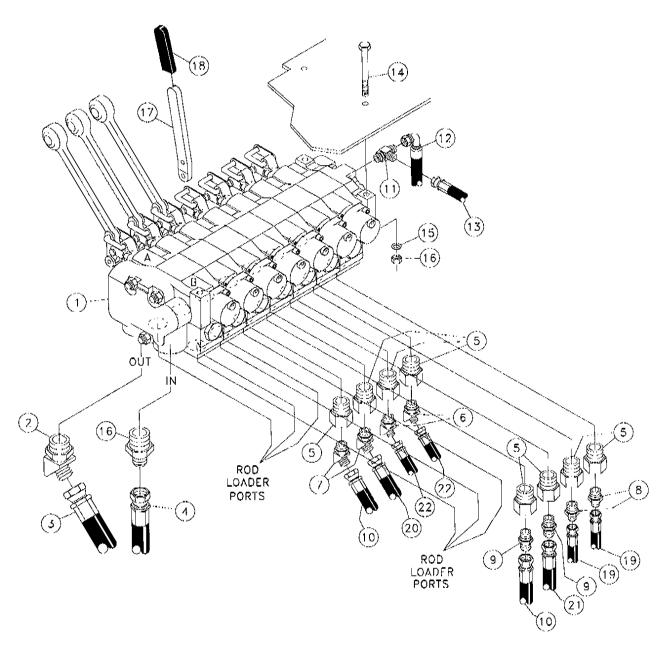


REF.	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	. <u>NO.</u>	PART NO.	DESCRIPTION	QTY.
3-16	1	250539-001	BOLT-7/16-14 X 1 GR8 HEX Y/ZI	4	3-16	11	67291-001	6MX4F SOLID REDUCER	2
3-16	2	250540-001	WASHER-7/16 HARDENED FLAT Y/	4	3-16	12	53843-253	HQSE-1/4X32 4FS JIC 2750 PSI	2
3-16	3	251062-001	VALVE-SOLENOID SELECTOR		3-16	13	81212-001	FITTING-16MX12M JIC 45 ELBOW	1
	-		(BREAKDOWN FIG. 3-34)	1	3-16	14	53845-615	HOSE-3/4X37 12FSJICST/45D5000#	2
3-16	4	70008-001	FITTING-16M X 12M JIC STR.	1	3-16	15	244478-001	HOSE-1X129 16FSJICST/90 6000	1
3-16	5	251053-001	HOSE-1X65 16/62/90 16FSJICG000	1	3-16	16	244473-001	HOSE-1X123 16FSJICST/90 6000	1
3-16	6	61703-001	16M X 16M JIC 90	3	3-16	17	60907-001	FITTING-16M JICX16M STR ADAPT	1
3-16	7	251052-001	HOSE-1X57 16/62/90 16FSJICG000	1	3-16	18	*71220-005	CLAMP-PLASTIC INSIDE (PAIR)	2
3-16	8	53843-239	HOSE-1/4X26 4FS JIC 3000 PSI	1	3-16	19	*71220-007	PLATE-HOSE CLAMP TOP	2
3-16	9	81343-001	4M (BCH)X4M JICX4M JIC TEE	2	3-16	20	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4
3-16	10	53843-057	HOSE-1/4X22 4FS JIC (100R1)	1	3-16	21	*235743-001	BOLT-3/8-16X3 GR 8 HEX ZINC PLTD	4

CONTROL VALVE ASSEMBLY - 7 SPOOL

Figure 3-17

Revised February 1999 due to update of hose length & addition of breakdown note. Changed part marked with *.

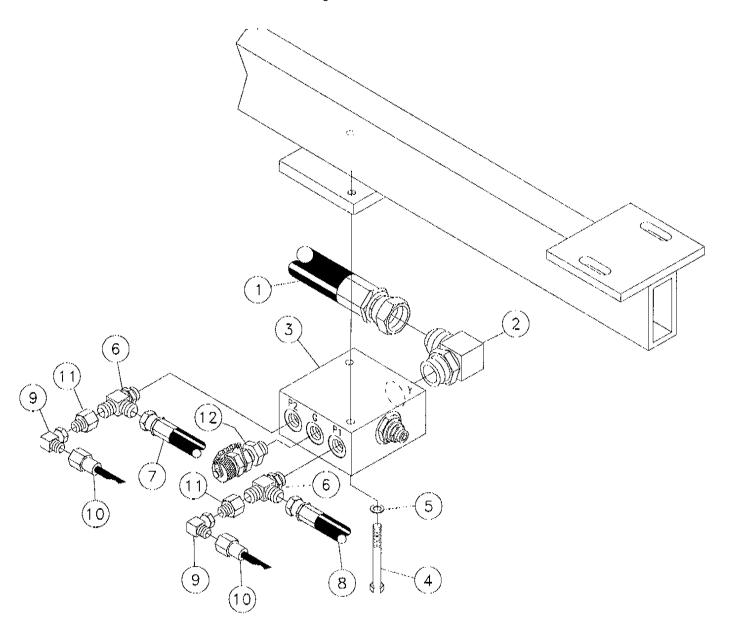


RE	F. NO.	PART NO.	<u>DESCRIPTION</u>	OTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>Q1Y.</u>
3-17	1	244728-001	VALVE-7 SECT L.S. (BRKDWN FIG. 3-35)	1	3-17	12	53843-691	HOSE-1/4X90 4FSJIC-4FSJIC 90	1
3-17	2	88659-001	FIT FING-12M ORINGX10MJIC 45DEG	1	3 17	13	53843-145	HOSE-1/4X30 4FS JIC (100R2)	1
3-17	3	53842-089	HOSE-5/8X90 10FS JIC 2750 PSI	1	3-17	14	238212-001	BOLT-5/16-18 X 3" GR8 HEX YZI	3
3-17	4	*53844-151	HOSE-1/2X40 8FS JIC 3000 PSI	1	3-17	15	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	3
3-17	5	57967-001	10M-6F O-RING BUSHING	8	3-17	16	235741-001	NUT-5/16-18 GR8 ZINC PLTD	3
3-17	6	82931-001	FITTING-6MX4M JIC 45DEG.ELBOW	2	3-17	17	234364-001	PLATE-VALVE HANDLE	4
3-17	7	65563-001	6M X 6M JIC 45 DEGREE	2	3-17	18	201482-001	HANDLE-BLACK PLASTIC 2 1/2"	1
3-17	8	57968-001	6M O-RING 4M JIC STRAIGHT	2	3-17	19	53843-539	HOSE-1/4X204 4FS JIC 2750 PSI	2
3-17	9	65565-001	FITTING-6M X 6M JIC ST.	2	3-17	20	57940-665	HOSE-3/8X69 6FSJICST/90 3000#	1
3-17	10	57940-451	HOSE-3/8 X 190 6FS JIC 4000PSI	2	3-17	21	57940-663	HOSE-3/8X62 6FSJICST/90 3000#	1
3-17	11	81342-001	4MX4M JIC(BCH)X4M JIC TEE	1	3-17	22	53843-721	HOSE-1/4X206 4FSJICST 3000PSI	2

(PAGE 3-18) D40X40/NAVTEC NAVIGATOR

HOT OIL SHUTTLE ASSEMBLY

Figure 3-18



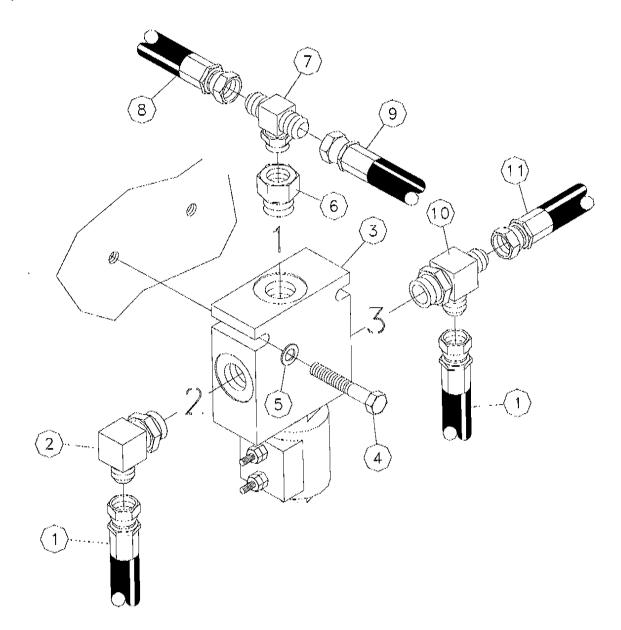
REF. NO. PART NO.		PART NO.	DESCRIPTION	<u>QTY.</u>
3-18	1	53845-041	HQSE-3/4X34 12FS JIC (100R2)	1
3-18	2	59410-001	12M JICX12M ADJ, 90 DEG,ELBOW	1
3-18	3	902012-001	VALVE-SHUTTLE	1
3-18	4	250502-001	BOLT 5/16-18 X 2 3/4"GR8 HEX Y	3
3-18	5	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	3
3-18	6	68774-001	FITTING-6MX6M JIC (RUN)X6M JIC	2
3-18	7	5794 0-5 01	HOSE-3/8X28 6FS JIC ST/6FSJC90	1
3-18	8	57940-375	HOSE-3/8X16 6FS JIC SAE-100R2	1
3-18	9	53658-001	FITTING-4M JICX4 FS JIC 90 DEG	2
3-18	10	244520-001	HOSE078X136 4FS JIC ST	2
3-18	11	59928-001	6F JICX4M JIC ST REDUCER	2
3-18	12	72056-001	COUPLER-DIAG, TCM-20 9/16NF	1

D40X40/NAVTEC NAVIGATOR (PAGE 3-19)

SOLENOID VALVE ASSEMBLY (TRACK)

Figure 3-19

Revised February 1999 due to update of control valve & addition of breakdown note. Changed part marked with *.



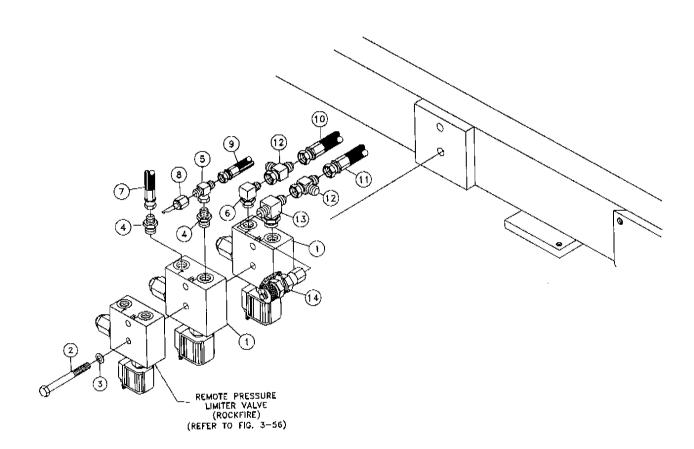
<u>REF. NO. PAR</u>		<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-19	1	53843-253	HOSE-1/4X32 4FS JIC 2750 PSI	2
3-19	2	600118-001	FITTING-6MORINGX4MJIC90PARKER	1
3-19	3	1244491-001	VALVE-2 POS, 3 WAY (BREAKDOWN	
			FIG. 3-42)	1
3-19	4	238210-001	BOLT-1/4-20X1 1/2 GR8 HEX ZYC	2
3-19	5	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	2
3-19	6	67291-001	6MX4F SOLID REDUCER	1
3-19	7	81343-001	4M (BCH)X4M JICX4M JIC TEE	1
3-19	8	53843-325	HQ\$E-1/4X25 4FS JIC 3000 P\$I	1
3-19	9	53843-057	HOSE-1/4X22 4FS JIC (100R1)	1
3-19	10	82930-001	FIT-6MX4M JICX4M JIC (BCH) TEE	1
3-19	11	53843-237	HOSE-1/4X80 4FS JIC 3000 PSI	1

(PAGE 3-20) D40X40/NAVTEC NAVIGATOR

TORQUE LIMITER VALVE ASSEMBLY

Figure 3-20

Revised August 2000 due to update in illustration.



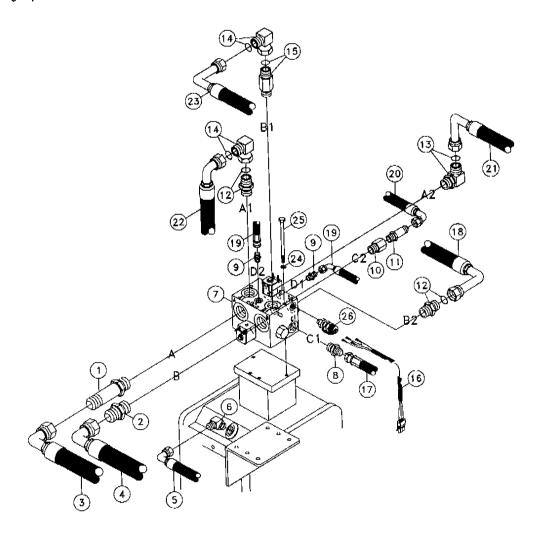
<u>REF. NO.</u>		<u>PART NO.</u>	DESCRIPTION	QTY.
3-20	1	251063-001	VALVE-REMOTE PRESSURE LIMITER (BREAKDOWN FIG. 3-43)	2
3-20	2	16114-034	BOLT-3/8-16X3 1/2 HEX HD. GR8 (SN101-175)	2
		275231-001	BOLT-3/8-16X5 GR 8 HEX ZINC PL (SN176-)	2
3-20	3	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	2
3-20	4	57968-001	6M O-RING 4M JIC STRAIGHT	2
3-20	5	66996-001	TEE-4FS JIC BCHX4M JICX4M JIC	1
3-20	6	600118-001	FITTING-6MORINGX4MJIC90PARKER	1
3-20	7	251010-001	HOSE-1/4 X 15 4 FSJIC 6000	1
3-20	8	244520-001	HOSE078X136 4FS JIC ST	1
3-20	9	251011-001	HOSE-1/4 X 8 4 FSJIC 6000	1
3-20	10	251009-001	HOSE-1/4 X 24 4 FSJIC 6000	1
3-20	11	251008-001	HOSE-1/4 X24 4FSJIC ST/90 6000	1
3-20	12	60248-001	TEE-4M JIC X 4M JIC X 4F\$ JIC (\$N176-)	2
3-20	13	66996-001	TEE-4FS X BCH X 4M JIC X 4M JIC	1
3-20	14	83015-001	FITTING-4F JIC DIAGNOSTIC	1

D40X40/NAVTEC NAVIGATOR (PAGE 3-21)

LOOP FLUSH VALVE ASSEMBLY

Figure 3-21

Revised August 2000 due to update in parts list. Changed part marked with *.



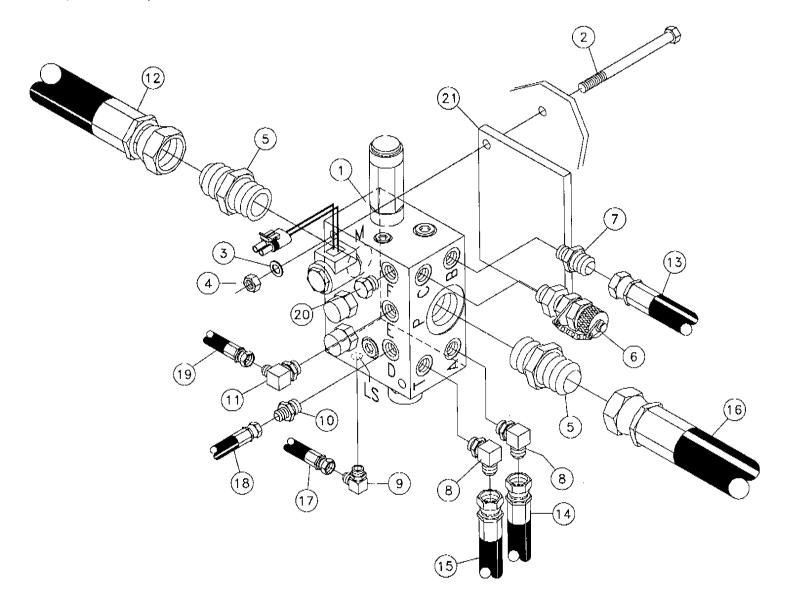
REF. NO.		PART NO.	DESCRIPTION	QTY. REF. NO.		PART NO.	DESCRIPTION	OTY.	
3-21	1	94161-001	FITTING-16M JIC X 16M O-RING LONG	1	3-21	13	279787-001	FITTING-FLTF 90D 12MORS X 12M	1
3-21	2	60907-001	FITTING-16M JIC X 16M STR ADAPT	1	3-21	14	72423-001	FITTING-FLTF 90 D 12FORS X 12M	2
3-21	3	244472-001	HOSE-1X230 16FS JIC ST/90 6000	1	3-21	15	279786-001	FITTING-FLTF L 12MORS X 12M	1
3-21	4	53846-465	HOSE-1X234 16FS JIC ST.90 D 6000#	1	3-21	16	251374-001	HARNESS-3 SPEED WIRE	1
3-21	5	251092-001	HOSE-5/8X234 10FS JIC ST/90 3000	1	3-21	17	279793-001	HOSE-1/2X19 8FS JIC ST/ST M3K	1
3-21	6	68287-001	FITTING-8M X 10M JIC 45	1	3-21	18	279791-001	HOSE-3/4X21 12FFORX 90L/90'G6K	1
3-21	7	277838-001	VALVE-3 SPEED SHUTTLE		3-21	19	279794-001	HOSE-3/8X21 10FS JIC ST/90 M3K	2
			(BREAKDOWN FIG. 3-44)	1	3-21	20	279792-001	HOSE-1/2X17 8FS JIC ST/90	1
3-21	8	53826-001	#10M O-RING #8M JIC ST.	1	3-21	21	279789-001	HOSE-3/4X18 12FFORX 90S/90L G6K	1
3-21	9	65565-001	FITTING-6M O-RING X 6M JIC ST.	1	3-21	22	279788-001	HOSE-3/4X16.25 12FFORX 90S/ST G6K	1
3-21	10	60930-001	10M X 8F ST SOLID REDUCER	1	3-21	23	279790-001	HOSE-3/4X18 12FFORX 90L/90L G6K	1
3-21	11	100850-001	FITTING-8M X 8M JIC LONG STR.	1	3-21	24	253714-001	WASHER-5/16 SAE HARD ZINC PLTD	4
3-21	12	*114392-001	FITTING-12MOR X 12MOR FF ST		3-21	25	248069-001	BOLT-5/16-18X5 GR 8 ZINC PLTD	4
			(REPLACE\$ 279784-001)	2	3-21	26	72056-001	COUPLER-DIAG. TCM-20 9/16 NF (\$N167-) 1

(PAGE 3-22) D40X40/NAVTEC NAVIGATOR

PROPORTIONAL VALVE ASSEMBLY

Figure 3-22

Revised August 2000 due to update in parts list. Added part marked with *.

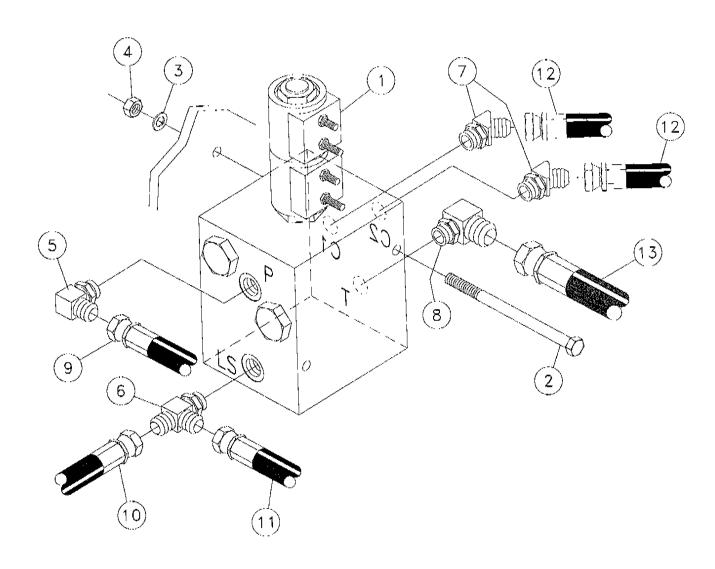


<u>R</u> EF.	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	<u>DESCRIPTION</u>	<u>QTY.</u>
3-22	1	246435-001	VALVE-WATER CONTROL (BREAKDOW FIG. 3-45)	'N 1	3-22	12	251093-001	HOSE-1X88 16 FSJIC ST/90 3000 (SN101-193)	1
3-22	2	238246-001	BOLT-3/8-16 X 4 1/2" GR8 HEX Y/ZI	2			*287083-001	HOSE-1X117 16FS JIC ST/90 3000 PSI	·
3-22	3	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	2				(SN194-)	1
3-22	4	235725-001	NUT-3/8-16 GR8 ZINC PLTD	2	3-22	13	53844-151	HOSE-1/2X40 8FS JIC 3000 PSI	1
3-22	5	60907-001	FITTING-16M JICX16M STR ADAPT	2	3-22	14	57940-289	HOSE-3/8X50 6FS JIC 3000 PSI	1
3-22	6	72056-001	COUPLER-DIAG, TCM-20 9/16NF	1	3-22	15	57940-467	HOSE-3/8X60 6FS JIC 3000 PSI	1
3-22	7	86235-001	6M ORING X 8M JIC STR.	1	3-22	16	251014-001	HOSE-1 X 45 16 FSJIC ST/16/61/	1
3-22	8	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	2	3-22	17	53843-031	HOSE-1/4X40 4FS JIC (100R1)	1
3-22	9	59423-001	FIT-4M JICX4M ADJ.90 DEG,ELBOW	1	3-22	18	53843-003	HOSE-1/4X36 4FS JIC (100R1)	1
3-22	10	57968-001	6M O-RING 4M JIC STRAIGHT	1	3-22	19	53843-689	HOSE-1/4X70 4FS JIC 3000 PSI	1
3-22	11	57950-001	FITTING-6M X 4 JIC 90 DEG.	1	3-22	20	5553-001	PLUG-#6M	1
					3-22	21	251065-001	PLATE-VALVE SPACER	1

D40X40/NAVTEC NAVIGATOR (PAGE 3-23)

GEARBOX LOCK VALVE ASSEMBLY

Figure 3-23

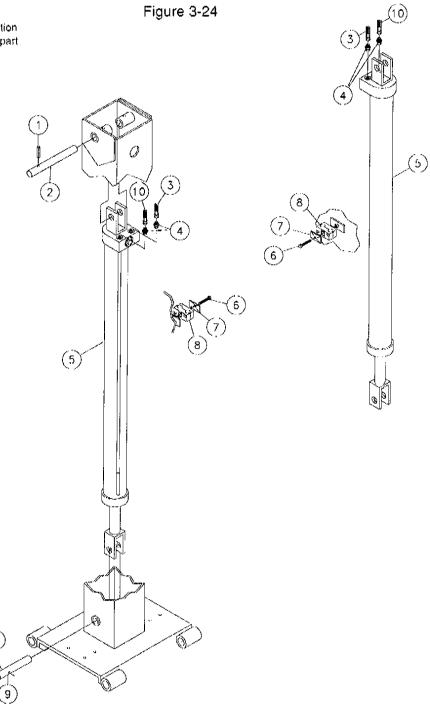


REC	<u>NO.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.
3-23	1	244480-001	VALVE-3 POS. 4 WAY	1
3-23	2	238243-001	BOLT 1/4"-20 X 4" GR8 HEX Y/Z	2
3-23	3	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	2
3.23	4	235732-001	NUT-1/4-20 GR8 ZINC PLTD	2
3-23	5	59423-001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1
3.23	6	81342-001	4MX4M JIC(BCH)X4M JIC TEE	1
3.23	7	58295-001	FITTING-4M OR X 4M JIC 45 DEG.	2
3-23	8	60906-001	4MX6M JIC 90 DEG ELBOW	1
3-23	9	53843-003	HOSE-1/4X36 4FS JIC (100R1)	1
3-23	10	53843-031	HOSE-1/4X40 4FS JIC (100R1)	1
3-23	11	53843-659	HOSE-1/4X35 4FS JIC 3000 PSI	1
3-23	12	53843-257	HOSE-1/4X90 4F\$ JIC 3000 PSI	2
3-23	13	57940 -747	HOSE-3/8X48 6FS JIC 3000 PSI	1

(PAGE 3-24) D40X40/NAVTEC NAVIGATOR

OUTRIGGER CYLINDER ASSEMBLY

Revised February 1999 due to addition of breakdown to manual. Changed part marked with *.



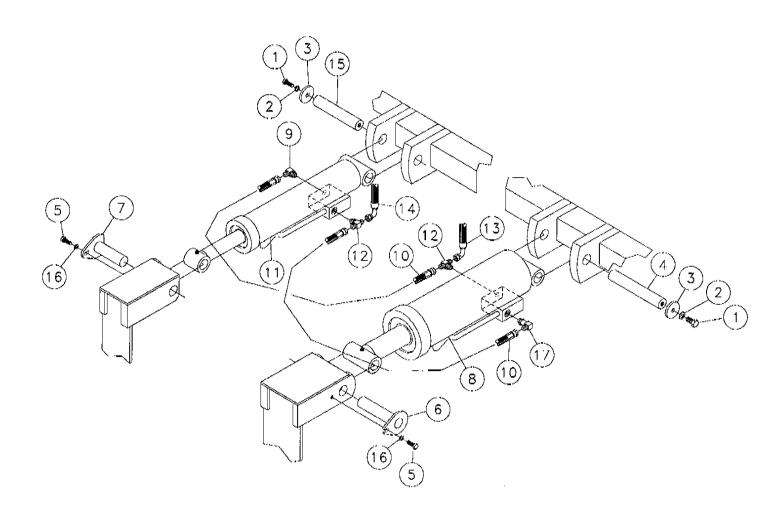
HEF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	QTY.
3-24	1	1788-033	PIN-EXP.3/8X2 1/4	4
3-24	2	216681-001	PIN-OUTRIGGER CYLINDER	2
3-24	3	53843-539	HOSE-1/4X204 4FS JIC 2750 PSI	2
3-24	4	57968-001	6M O-RING 4M JIC STRAIGH F	4
3-24	5	*224278-001	CYL 3"X40" W/ CB VALVE	
			(BREAKDOWN FIG. 3-46)	2
3.24	6	351-012	BOLT-5/16"-18X1 1/4"GR5 HEX	4
3-24	7	67846-003	PLATE-TWIN COVER	4
3-24	8	900035-005	CLAMP-3/8"DOUBLE HOSE	4
3-24	9	216682-001	PIN-OUTRIGGER CYLINDER	2
3-24	10	53843-721	HOSE-1/4X206 4FSJICST 3000PSI	2

D40X40/NAVTEC NAVIGATOR (PAGE 3-25)

RACK LIFT CYLINDER ASSEMBLY

Figure 3-25

Revised July 1999 due to update in parts list. Changed part marked with *.



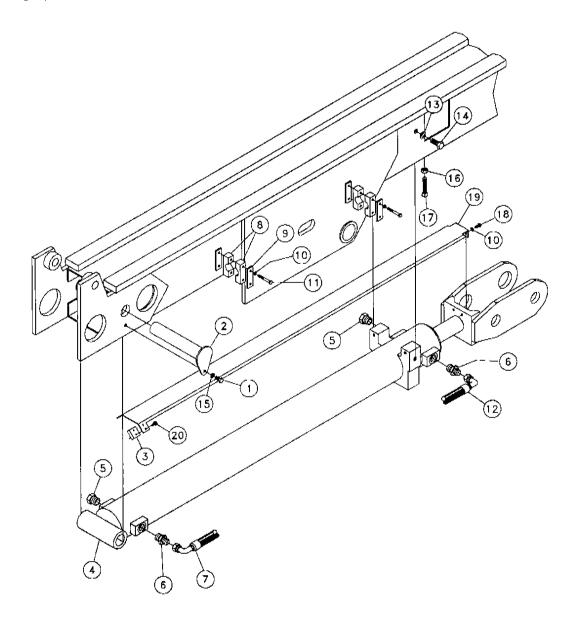
REE.	<u>.NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-25	1	235729-001	BOLT-1/2-13X1 GR8 HEX ZINC PLT	4
3-25	2	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	4
3-25	3	18150-001	SLUG-2 DIA1/4"	4
3-25	4	216722-001	PIN-RACK PIVOT CYLINDER	1
3-25	5	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	2
3-25	6	227854-001	PIN-LEFT RACK CYLINDER	1
3-25	7	227852-001	PIN-RIGHT RACK CYLINDER	1
3-25	8	*216695-001	CYLINDER-4 1/2"X12"	
			(BREAKDOWN FIG. 3-48)	1
3-25	9	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	1
3-25	10	68209-023	HOSE-3/8X28 6FS JIC (M2T)	2
3-25	11	224445-001	CYLINDER-3X12 HYD.	
			(BREAKDOWN FIG. 3-47)	1
3-25	12	68787-001	FITTING-6M (BCH)X6M JICX6M JIC	2
3-25	13	57940-663	HOSE-3/8X62 6FSJICST/90 3000#	1
3-25	14	57940-665	HQSE-3/8X69 6FSJICST/90 3000#	1
3-25	15	216724-001	PIN-RACK PIVOT CYLINDER	1
3-25	16	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	2
3-25	17	65570-001	6M X 6M JIC 90 DEGREE LONG	1

(PAGE 3-26) D40X40/NAVTEC NAVIGATOR

THRUST CYLINDER ASSEMBLY

Figure 3-26

Revised August 2000 due to update in parts list. Changed part marked with *.



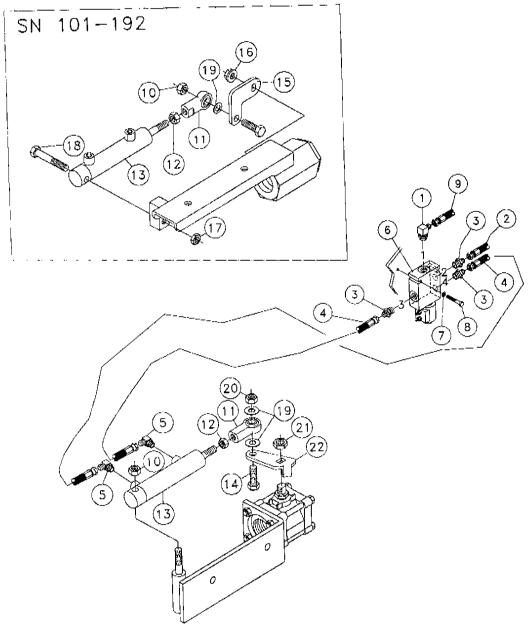
REF.	NO.	PART NO.	<u>DESCRIPTION</u>	<u> YTC</u>	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
3-26	1	235729-001	BOLT-1/2-13X1 GR8 HEX ZINC PLT	1	3-26	11	250640-001	BOLT-3/8-16X2 3/4" GR 8 HEX ZINC	6
3-26	2	224268-001	PIN-THRUST CYLINDER	1	3-26	12	53845-773	HOSE-3/4X59 12FSJICST/90 5000#	1
3-26	3	227986-001	WEARSTRIP-CYLINDER GUARD	2	3-26	13	235717-001	WASHER-3/4 SAE HARD ZING PLTD	2
3-26	4	224478-001	CYLINDER-5X96 (BREAKDOWN FIG. 3-49)	1	3-26	14	243905-001	BOLT - 3/4-10X1 3/4 GR8 HEX ZP	2
3-26	5	83638-001	PLUG-#16 JIC MALE	2	3-26	15	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	1
3-26	6	70008-001	FITTING-16M X 12M JIC STR.	2	3-26	16	429-001	NUT-5/8 NC HEX JAM	2
3-26	7	53845-779	HOSE-3/4X161 12FSJICST/90 5000	1	3-26	17	601697-030	SQ HSS-5/8-11X3 ZINC PLT	2
3-26	8	217034-003	CLAMP HALF-PLASTIC 1 1/4" ID	6	3-26	18	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	2
3-26	9	71220-007	PLATE-HOSE CLAMP TOP	3	3-26	19	227985-001	GUARD-CYLINDER	1
3-26	10	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	8	3-26	20	*283873-001	BOLT-1/4-20X1/2 SL HWH T/K2P	

D40X40/NAVTEC NAVIGATOR (PAGE 3-27)

WATER PUMP ON/OFF CYLINDER ASSEMBLY

Figure 3-27

Revised August 2000 due to update in illustration & parts list. Added parts marked with *.



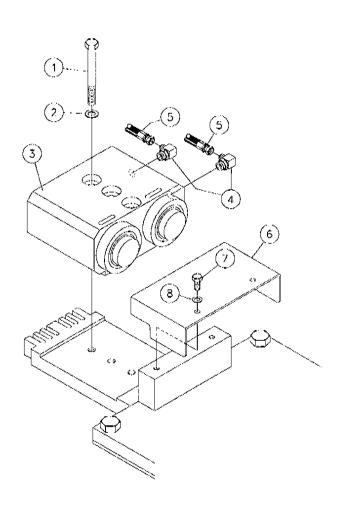
REF	<u>NO.</u>	<u>PART NÓ.</u>	DESCRIPTION	QTY,	REF	<u>. NÓ.</u>	PART NO.	DESCRIPTION	QTY.
3-27	1	600118-001	FITTING-6MORINGX4MJIC90PARKER	1	3-27	13	234359-001	CYLINDER-1X3 1/2 (VRM-0596-05)	
3-27	2	53843-689	HOSE-1/4X70 4FS JIC 3000 PSI	1				(BREAKDOWN FIG. 3-50)	1
3-27	3	57968-001	6M O-RING 4M JIC STRAIGHT	3	3-27	14	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	1
3-27	4	53843-251	HOSE-1/4X19 4FS JIC 2750 PSI	2	3-27	15	244692-001	LINKAGE -BALL VALVE (\$N101-192)	1
3-27	5	59423-001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	2	3-27	16	234421-003	NUT-7/16-20NF FLANGE WHIZ (SN101-19	(2) 1
3-27	6	244725-001	VALVE-2 POS 4 WAY (BREAKDOWN		3-27	17	235722-001	NUT-1/2-13 GR 8 JAM ZINC PLTD	·
			FIG. 3-51)	1				(\$N101-192)	1
3-27	7	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	2	3-27	18	235724-001	BOLT-1/2-13 X 3 GR 8 HEX ZINC PLTD	
3-27	8	250624-001	BOLT-1/4-20X1 3/4 GR8 HEX ZYC	2				(SN101-192)	1
3-27	9	53843-395	HOSE-1/4X45 4FSJICST-4FSJIC 90	1	3-27	19	*485-025	WASHER-1/2 FLAT HARDENED ZINC	2
3-27	10	250512-001	NUT-1/2-NC GR8 TOP LOCK Y/ZINC	1	3-27	20	*423-001	NUT-1/2 NC SLTL UTB (SN193-)	1
3-27	11	224291-001	BALL JOINT-1/2-20 FEMALE THOS.	1	3-27	21	*250514-001	NUT-5/8 NC JAM Y/ZINC (SN193-)	1
3-27	12	250525-001	NUT 1/2-20 NF HEX Y/ZINC	1	3-27	22	*278224-001	LOWER BALE VALVE (SN193-)	1

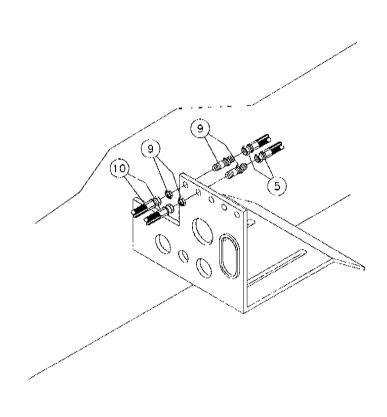
(PAGE 3-28) D40X40/NAVTEC NAVIGATOR

FLOATING GEARBOX CYLINDER ASSEMBLY

Figure 3-28

Revised February 1999 due to change to NF bolts & addition of breakdown to manual. Changed parts marked with *.





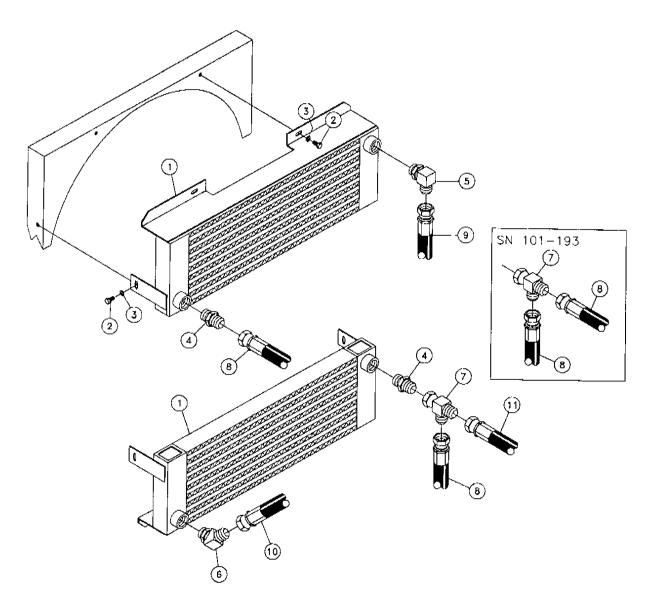
REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	<u>ΩΤΥ.</u>
3-28	1	*276526-001	BOLT-1/2-20 X4 1/2 GR8 HEX Y/Z	3
3-28	2	485-025	WASHER-1/2 FLAT HARDENED-ZINC	3
3-28	3	1234498-001	CYLINDER-DUAL 3X2 ROD -2	
			(BREAKDOWN FIG. 3-52)	1
3-28	4	57950-001	FITTING-6M X 4 JIC 90 DEG.	2
3-28	5	53843-615	HOSF-1/4X231 4FS JIC 3000 PSI	2
3-28	6	244531-001	SHIELD-CYLINDER	1
3-28	7	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	2
3-28	8	235713-001	WASHER-3/8 SAF HARD ZINC PLTD	2
3-28	9	65564-001	FITTING - 4M JIC BULKHEAD ST.	2
3-28	10	53843-257	HOSE-1/4X90 4FS JIC 3000 PSI	2

D40X40/NAVTEC NAVIGATOR (PAGE 3-29)

OIL COOLER ASSEMBLY

Figure 3-29

Revised August 2000 due to update in illustration & parts list. Added parts marked with *.



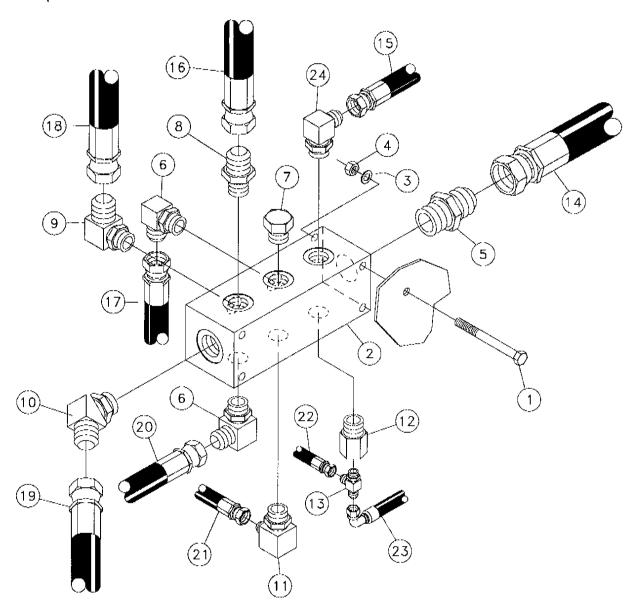
REF. NO. PART NO.		PART NO.	DESCRIPTION	<u>QTY.</u>
3-29	1	246429-001	COOLER - OIL	2
3-29	2	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	8
3-29	3	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	8
3-29	4	60907-001	FITTING-16M JICX16M STR ADAPT	2
3-29	5	61703-001	16M X 16M JIC 90	1
3-29	6	53835-001	#16M O-RING-#16M JIC 45 DEG.	1
3-29	7	77155-001	FITTING-16M JICX16FS JIC RUN T	1
3-29	8	246427-001	HOSE-1X58 16 FSJIC ST/90 100R4 (SN101-193)	3
		*246427-001	HOSE-1X58 16FS JIC ST/90 100R4 (SN194-)	2
3-29	9	53846-079	HOSE-1X31 16FS JIC (100R1)	1
3-29	10	53846-019	HOSE-1X60 16FS JIC (100R4)	1
3-29	11	*287084-001	HOSE-1X87 16FS JIC ST/90 200 PSI (SN194-)	1

(PAGE 3-30) D40X40/NAVTEC NAVIGATOR

RETURN MANIFOLD ASSEMBLY

Figure 3-30

Revised August 2000 due to update in parts list. Added parts marked with *.



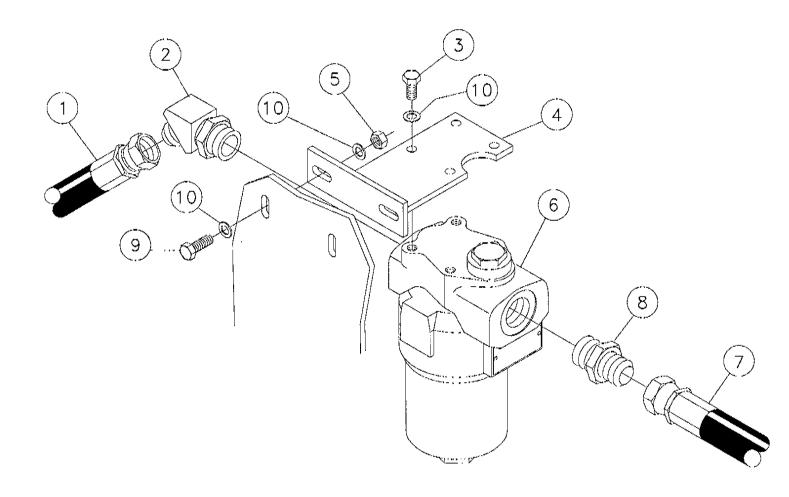
REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
3-30	1	250583-001	3/8-16X3 3/4 GR8 HEX BOLT PLTD	4	3-30	13	81342-001	4MX4M JIC(BCH)X4M JIC TEE	1
3-30	2	239445-001	MANIFOLD-RETURN	1	3-30	14	53846-079	HOSE-1X31 16FS JIC (100R1)	1
3-30	3	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	3-30	15	53844-131	HOSE-1/2X60 8FS JIC (100R1) (SN101-193	3) 1
3-30	4	235725-001	NUT-3/8-16 GR8 ZINC PLTD	4			*53844-127	HOSE-1/2X80 8FS JIC (100R1) (SN194-)	1
3-30	5	60907-001	FITTING-16M JICX16M STR ADAPT	1	3-30	16	53845-083	HOSE-3/4X42 12FS JIC (100R4)	1
3-30	6	53829-001	#10M O-RING-#10M JIC 90 DEG.	2	3-30	17	53842-047	HOSE-5/8X50 10FS JIC (100R2)	1
3-30	7	4235-001	10 M PLUG	1	3-30	18	251013-001	HOSE-3/4X45 12FSJIC ST/90 3000	1
3-30	8	60910-001	10MX12M JIC ST.ADAPTER	1	3-30	19	53845-041	HOSE-3/4X34 12FS JIC (100R2)	1
3-30	9	53871-001	#10M Q-RING X 12M JIC 90	1	3-30	20	53842-021	HOSE-5/8X100 10FS JIC (100R2)	1
3-30	10	60718-001	12M JICX12M ADJ.45 DEG.EL	1	3-30	21	57940-057	HOSE-3/8X90 6FS JIC (100R1)	1
3-30	11	59401-001	6M JICX10M ADJ, 90 DEG,ELBOW	1	3-30	22	53843-325	HOSE-1/4X25 4FS JIC 3000 PSI	1
3-30	12	108484-001	FITTING-4FX10M STR. ADAPTER	1	3-30	23	53843-395	HOSE-1/4X45 4FSJICST-4FSJIC 90	1
					3-30	24	59407-001	8M JICX10M ADJ, 90 DEG,ELBOW	1

D40X40/NAVTEC NAVIGATOR (PAGE 3-31)

OIL FILTER ASSEMBLY

Figure 3-31

Revised February 1999 due to update of filter & hydraulic fittings. Changed parts marked with *.



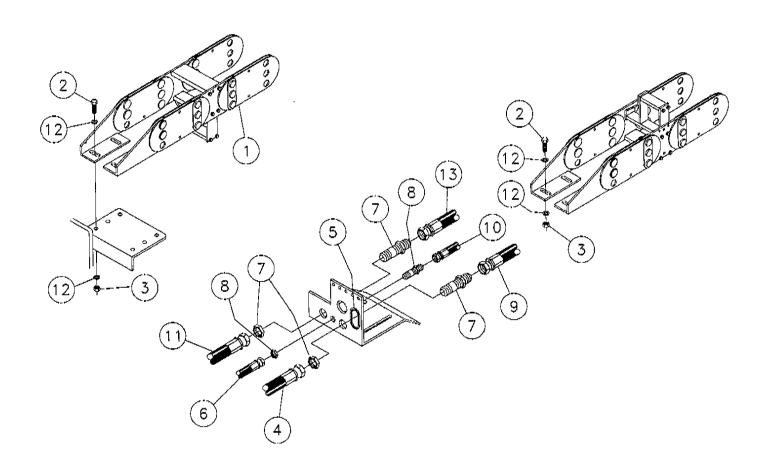
<u>REF. NO. PART NO.</u>		PART NO.	<u>DESCRIPTION</u>	QTY.
3-31	1	251051-001	HOSE-3/4X90 12FSJIC ST/90 5000	1
3-31	2	*81212-001	FITTNG-16M X 12M JIC 45 EL	1
3-31	3	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNOPLT	4
3-31	4	224404-001	MOUNT-FILTER	1
3-31	5	235725-001	NUT-3/8-16 GR8 ZINC PLTD	2
3-31	6	*244560-001	FILTER-HIGH PRESSURE	
			(BREAKDOWN FIG. 3-53)	1
3-31	7	53845-791	HOSE 3/4X42 12JIC16/62/90 5000	1
3-31	8	*70008-001	FITTING-16MX12M JIC ST ADAPT	1
3-31	9	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	2
3-31	10	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	8

(PAGE 3-32) D40X40/NAVTEC NAVIGATOR

HOSE CARRIER/BULKHEAD ASSEMBLY

Figure 3-32

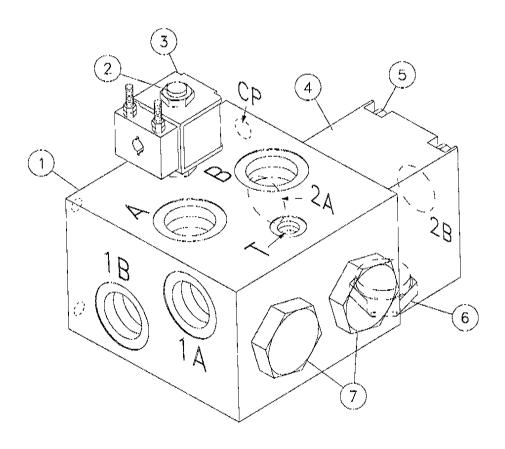
Revised July 1999 due to update to new hose carrier. Changed parts marked with *.



REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	OTY.
3-32	1	*278101-001	CARRIER-15.0 X 5.0 HOSE	
			(BREAKDOWN FIG. 3-55)	1
3-32	2	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	8
3-32	3	235725-001	NUT-3/8-16 GR8 ZINC PLTD	8
3-32	4	244473-001	HOSE-1X123 16FSJICST/90 6000	1
3-32	5	1865-055	GROMMET-1 1/2 IDX1 3/4 OD 1/4G	1
3-32	6	*53842-021	HOSE-5/8X100 10FS JIC (100R2)	1
3-32	7	81698-001	FITTING-16MJIC BULKHEAD STR.	2
3-32	8	77734-001	FITTING-10M JIC BULKHEAD STR.	1
3-32	9	53846-465	HOSE-1X234 16FS JIC ST/90 6000	1
3-32	10	51092-001	HOSE-5/8X234 10FSJICST/90 3000	1
3-32	11	244478-001	HOSE-1X129 16FSJICST/90 6000	1
3-32	12	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	16
3-32	13	244472-001	HOSE-1X230 16FSJICST/90D6000#	1

SOLENOID SELECTOR VALVE COMPONENTS

Figure 3-33

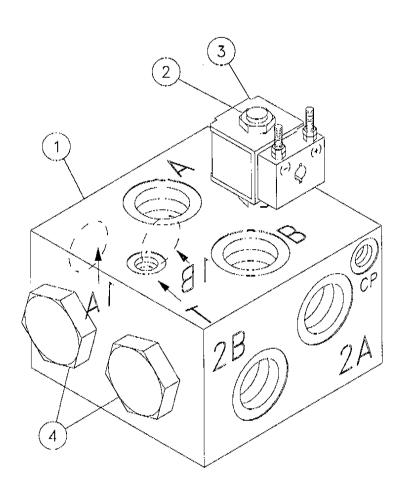


HEF.	NO.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-33	1	224292-003	BODY	1
3-33	2	207418-007	SOLENOID VALVE	1
3-33	3	251061-003	SOLENOID VALVE COIL - 2 POST	1
3-33	4	224292-005	BODY	1
3-33	5	4478-024	3/8-16X2 1/2 SOCK HD.	4
3-33	6	224292-007	CHECK VALVE	1
		231770-001	SEAL KIT	0
3-33	7	224292-009	DIVERTER VALVE	2
		231771-001	SEAL KIT	0
		251061-001	VALVE-SQLENOID SELECT (INC. REF. 1-7)	

(PAGE 3-34) D40X40/NAVTEC NAVIGATOR

SOLENOID SELECTOR VALVE COMPONENTS

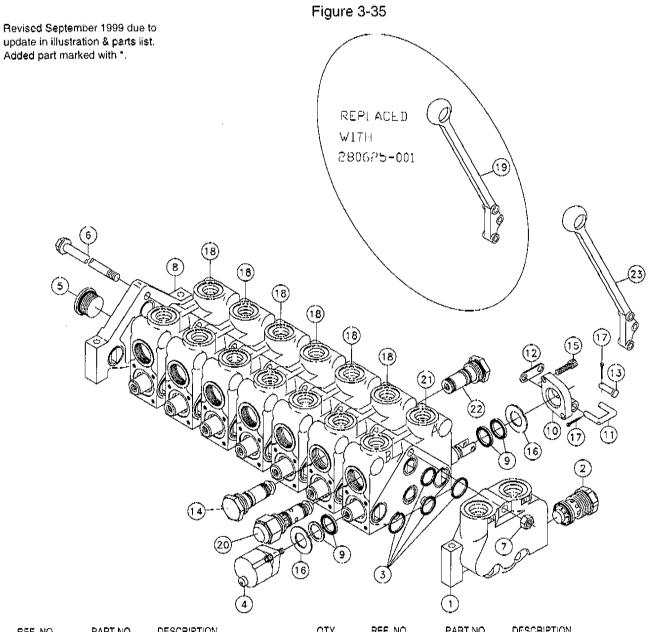
Figure 3-34



<u>RE</u> F.	N <u>Ö.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-34	1	224292-003	BODY	1
3-34	2	207418-007	SOLENOID VALVVE	1
		20748-009	REPAIR KIT-SOLENOID VALVE	
3-34	3	251061-003	SOLENOID VALVE COIL - 2 POST	1
3-34	4	224292-009	DIVERTER VALVE	2
		231771-001	SFAL KIT	
		251062-001	VALVE - SOLENOID SELECTOR (INC. REF. 1-4)	

CONTROL VALVE COMPONENTS



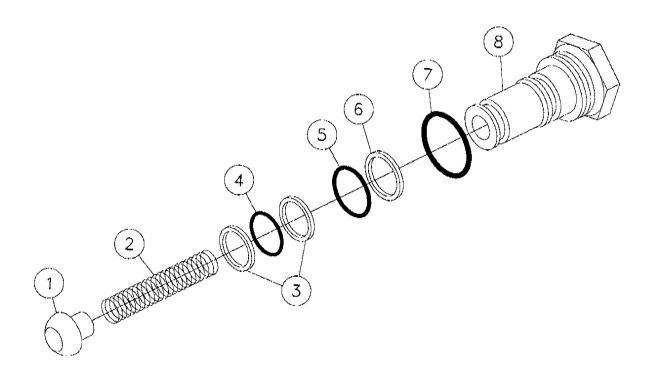


REF.	NQ.	<u>PART NO.</u>	<u>DESCRIPTION</u> <u>Q</u>	<u>TY.</u>	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u> 1 Y .</u>
3-35	1	*228113-003	LEFT COVER PLATE COMP (INC. REF. 2)	1	3-35	16	3147-081	RETAIN-PLT WASH	14
3-35	2	*228113-005	WH MAIN RELIEF (3500 PSI)		3-35	17	510-035	PIN-3/32 X 1/2 COTTER	21
			(BREAKDOWN FIG. 3-38)	1	3-35	18	244519-003	BODY ASSY-CENTER SECTION	
3-35	3	3147-079	REPAIR KIT-OP VALVE	8				(INC. ONE OF REF. 3, 4, 9-13, 14 & 22,	
3-35	4	6149-005	POSITIONER-STD. (BREAKDOWN FIG. 3-3)	7) 7				TWO OF REF. 15 & 16 & THREE OF	
3-35	5	98108-011	PLUG-1 15/16-12 UNF SOCKHD	1				REF. 17)	6
		3152-013	\$EAL-O-RING	1	3-35	19	3147-039	HANDLE - CP VALVE (REPLACED BY	
3-35	6	68386-001	STUD KIT- 7 SPOOL (INC. REF. 7)	1				280625-001)	3
3-35	7	446-001	NUT-3/8 NF HEX	3	3-35	20	89275-007	RC PORT RELIEF (BREAKDOWN FIG. 3-39) 1
3-35	8	219120-011	RIGHT COVER PLATE (INC. ONE OF		3-35	21	244519-005	BODY ASSY-CENTER SECTION (INC.	
			REF. 3 & 5)	1				ONE OF REF. 3, 4, 9-13, 20 & 22, TWO	
3-35	9	3147-077	REPAIR KIT	7				OF REF. 15 & 16 & THREE OF REF. 17)	1
3-35	10	3147-029	BRACKET	7	3-35	22	238196-001	CARTRIDGE-ANTI-DRIFT (BREAKDOWN	
3-35	11	4333-003	LINK	7				FIG. 3-40)	7
3-35	12	4333-005	PLATE-LINK	7	3-35	23	1280625-001	HANDLE W/ZINC PLATE & BLACK	
3-35	13	2110-003	PIN-CLÉVIS 1/4X7/8 - 47/64 UL	7				PLASTIC COAT	
3-35	14	3147-035	PLUG-LOAD CHECK STEEL						
			(BREAKDOWN FIG. 3-36)	6			244728-001	VALVE-7 SECT L.S. V20 L.S.	
3-35	15	79704-001	SCREW-1/4-20X7/8 SOC HD SELFLK	14				(INC, ALL ITEMS IN FIGURE)	

(PAGE 3-36) D40X40/NAVTEC NAVIGATOR

LOAD CHECK PLUG COMPONENTS

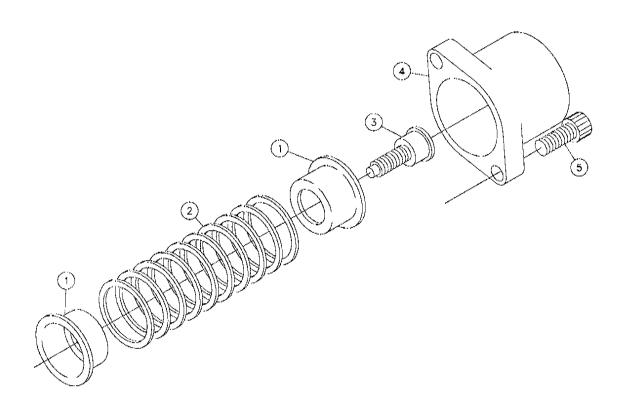
Figure 3-36



<u>REF.</u>	NO.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
3-36	1	3128-009	POPPET-CHECK	1
3-36	2	3147-041	SPRING-CHECK	1
3-36	3	NSS	WASHER-BACKUP (INNEH)	2
3-36	4	NSS	Q-RING	1
3 36	5	NSS	O-RING (OUTER)	1
3-36	6	NSS	WASHER-BACKUP (OUTER)	1
3-36	7	NSS	O-RING	1
3-36	8	3147-043	PLUG-LIFT CHECK	1
		3147-035 3147-037	PLUG-LOAD CHECK STEEL (INC. REF. 1-6 REPAIR KIT (INC. REF. 3-7)	3)

STANDARD SPOOL POSITIONER COMPONENTS

Figure 3-37



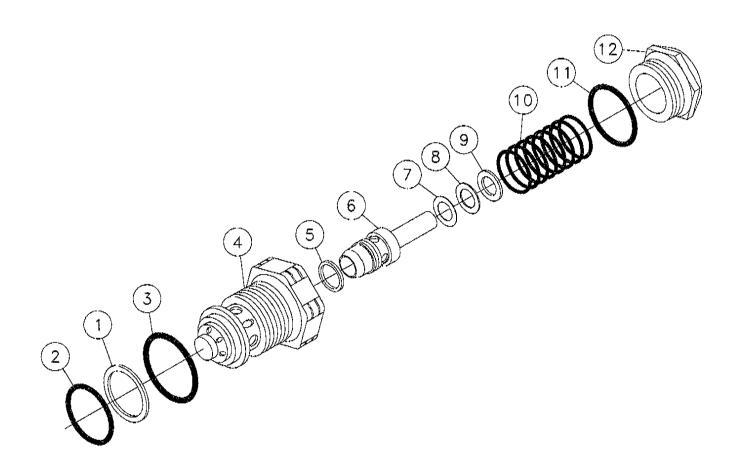
<u>ref.</u>	NO.	<u>PART NO.</u>	DESCRIPTION	QTY.
3-37	1	3149-005	COLLAR-SPRING GRESEN 1809-001	2
3-37	2	6149-057	SPRING-RETURN 7433-001	1
3-37	3	3149-013	COLLAR-SPOOL	1
3-37	4	6149-043	BONNET	1
3-37	5	/9704-001	SCREW-1/4-20X7/8 SOC HD SELFLK	2
		6149-005	POSITIONER-STD. (INC. REF. 1-7)	

(PAGE 3-38) D40X40/NAVTEC NAVIGATOR

WH MAIN RELIEF COMPONENTS

Figure 3-38

Revised July 1999 due to addition of pressure relief. Figure is new

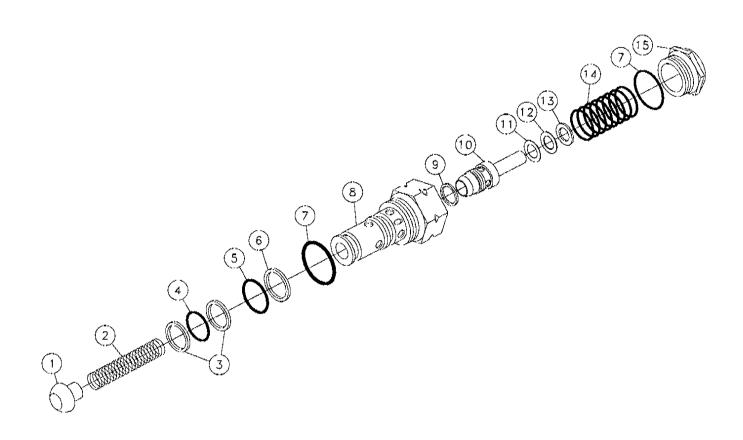


REF. NO. PART NO.		PART NO.	DESCRIPTION	QTY.
3-38	1	NSS	RING-BACKUP	1
3-38	2	NSS	SEAL-O-RING	1
3-38	3	NSS	SEAL-O-RING	1
3-38	4	15844-009	BODY-WH RELIEF	1
3-38	5	N\$\$	RING-PISTON	1
3-38	6	NSS	POPPET	1
3-38	7	208-019	SHIM010	A/R
3-38	8	208-017	SHIM020	A/R
3-38	9	208-015	SHIM040	A/R
3-38	10	228113-007	SPRING (3000-3500 PSI)	1
3-38	11	NSS	SEAL-O-RING	1
3-38	12	3147-027	CAP	1
		3147-011	SERVICE KIT (INC. REF. 5 & 6)	
		15844-007	REPAIR KIT (INC. REF. 1, 3 & 11)	
		228113-005	WH MAIN RELIEF (3500 PSI) (INC. REF	·. 1-12)

D40X40/NAVTEC NAVIGAATOR (PAGE 3-39)

RC PORT RELIEF COMPONENTS

Figure 3-39

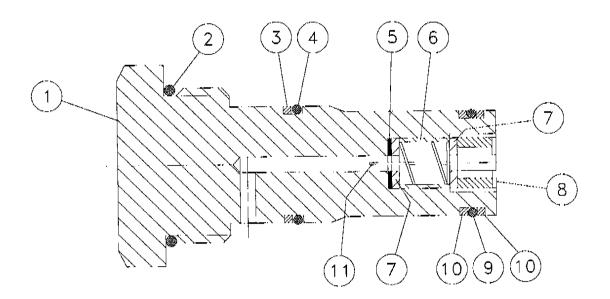


REF	. NO.	PART NO.	DESCRIPTION	<u>QTY.</u>
3-39	1	3128-009	POPPET-CHECK	1
3-39	2	3147-041	SPRING-CHECK	1
3-39	3	NSS	WASHER BACKUP	2
3-39	4	NSS	O-RING	1
3.39	5	NSS	Q-RING	1
3-39	6	NSS	WASHER-BACKUP	1
3-39	7	NSS	O-RING	2
3-39	8	3159-007	BODY-RELIEF	1
3-39	11	208-019	SHIM010	Α/R
3-39	12	208-017	SHIM020	A/R
3-39	13	208-015	SHIM040	A/R
3-39	14	3147 023	SPRING-YELLOW	1
		86323-005	SPRING-SS 2000-3000 PSI	1
3-39	15	3147-027	CAP	1
		3147-011	SERVICE KIT (INC, REF. 9 & 10)	
		3159-005	REPAIH KIT (INC. HEF. 3-7)	
		89275-007	RO PORT RELIEF (INC. ALL ITEMS IN THIS FIGURE)	
		NSS	NOT SOLD SEPARATELY	

(PAGE 3-40) D40X40/NAVTEC NAVIGATOR

ANTI-DRIFT CARTRIDGE COMPONENTS

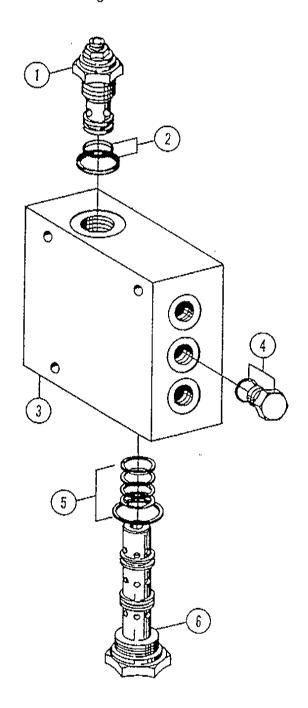
Figure 3-40



<u>REF</u>	<u>NÖ.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.
3-40	1	238196-003	PLUG-BLEED OFF	1
3-40	2	N\$\$	SFAL-O-RING	1
3-40	3	NSS	RNIG-BACKUP	1
3-40	4	NSS	SEAL-O-RING	1
3-40	5	238196-005	WASHER-BLEED OFF	1
3-40	6	238196-007	SPACER	1
3-40	7	238196-009	WASHER-BACK UP	2
3-40	8	238196-011	\$CREW-LOCKING	1
3-40	9	NSS	SEAL-O-RING	1
3.40	10	NSS	RING-BACKUP-CUT	2
3-40	11	238196-013	SPRING	1
		238196-001	CARTRIDGE-ANTI-DRIFT (INC. ALL ITEMS IN FIGURE)	
		3147-037	REPAIR KIT (INC. REF. 2-4, 9 & 10)	

SHUTTLE VALVE COMPONENTS

Figure 3-41

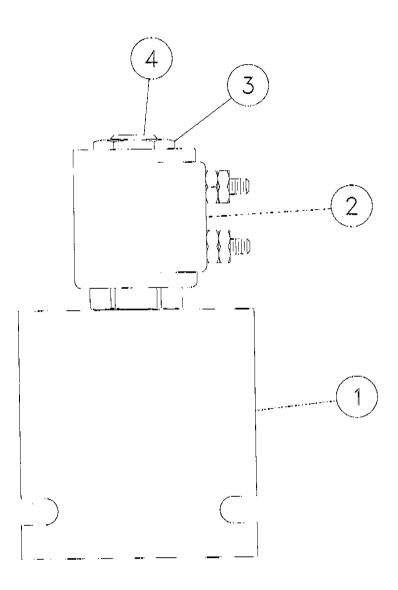


<u>REΓ</u>	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.
3-41	1	902012 003	VALVE-RELIEF	1
3-41	2	202731-001	REPAIR KIT-RELIEF VALVE	1
3-41	3	902012-005	BODY-VALVE	1
3-41	4	901562-015	PLUG-9/16"-18 UNF	1
3-41	5	204954-001	REPAIR KIT-SHUTTLE VALVE	1
3-41	6	901562-011	VALVE-SHUTTLE	1
		902012-001	VALVE-SHUTTLE (INC. ALL ITEMS IN THIS FIGURE)	

(PAGE 3-42) D40X40/NAVTEC NAVIGATOR

SOLENOID VALVE COMPONENTS

Figure 3-42

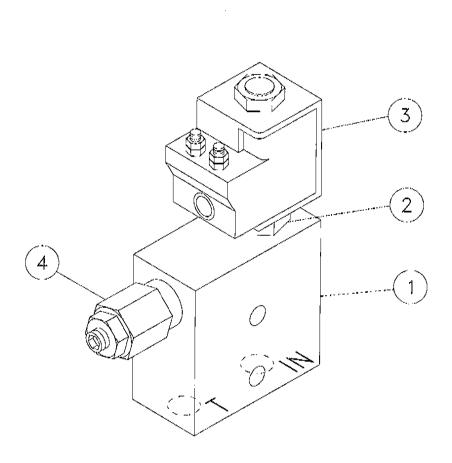


<u>REF.</u>	NÖ.	PART NO.	DESCRIPTION	<u> </u>
3-42	1	239443-003	BODY-VALVE	1
3-42	2	244725-005	COIL	1
3-42	3	244725-007	NUT - COIL	1
3-42	4	228124-017	CARTRIDGE-SOLENOID	1
		110467-003	SEAL KIT	1
		244491-001	VALVE-2 POS, 3 WAY (INC. ALL. ITEMS IN THIS FIGURE)	

PRESSURE LIMITER VALVE COMPONENTS

Figure 3-43

Revised Fobruary 1999 due to addition of figure to manual.



<u>RFF.</u>	NO.	PART NO.	DESCRIPTION	<u>QTY.</u>
3-43	1	228114-003	BODY-MANIFOLD	1
3-43	2	228114-005	CARTRIDGE	1
		228114-007	SEAL KIT	1
3-43	3	251063-003	COIL	1
3-43	4	228114-011	VALVE RELIEF	1
		85647-025	REPAIR KIT	1
		251063-001	VALVE-REMOTE PRESSURE LIMITER	

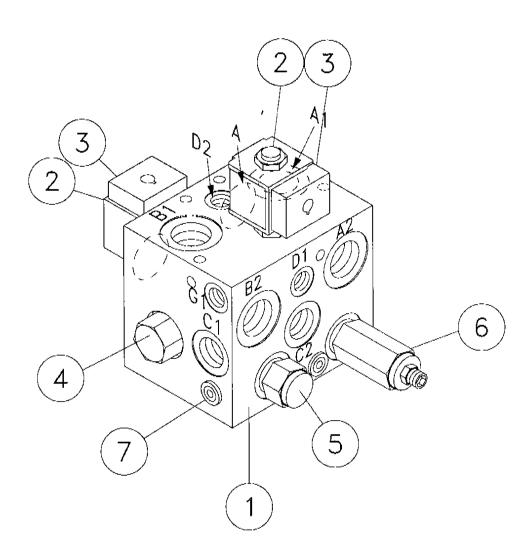
1063-001 VALVE-REMOTE PRESSURE LIMITER (INC. ALL ITEMS IN THIS FIGURE)

(PAGE 3-44) D40X40/NAVTEC NAVIGATOR

SHUTTLE VALVE COMPONENTS - 3 SPEED

Figure 3-44

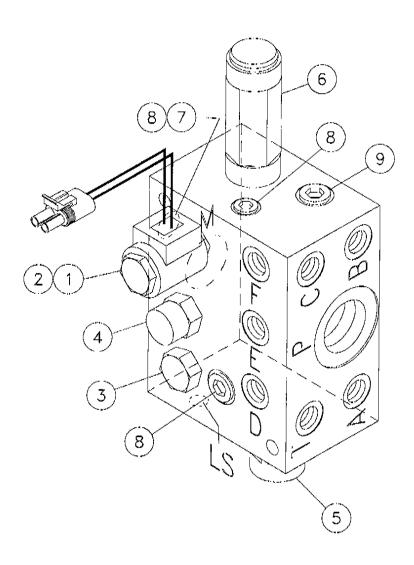
Revised February 2000 due to update in illustration.



REF.	<u>NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
3-44	1	NSS	VALVE BODY	1
3-44	2	224476-005	CARTRIDGE VALVE	2
3-44	3	251061-003	SOLENOID VALVE COIL-2 POST	2
		207418-009	REPAIR KIT-SQLENOID VALVE	
3-44	4	277838-003	SHUTTLE VALVE	1
		277838-005	REPAIR KIT-SHUTTLE VALVE	
3-44	5	277838-007	PRESSURE FLOW CONTROL VALVE	1
		277838-009	REPAIR KIT-PRESSURE FLOW	
			CONTROL VALVE	
3-44	6	277838-011	RELIEF VALVE	1
		277838-013	REPAIR KIT-RELIEF VALVE	
3-44	7	277838-015	#2 EPCO PLUG	6
		277838-001	VALVE-3 SPEED SHUTTLE (INC. ALL ITEMS IN THIS FIGURE)	

VALVE COMPONENTS - PROPORTIONAL

Figure 3-45

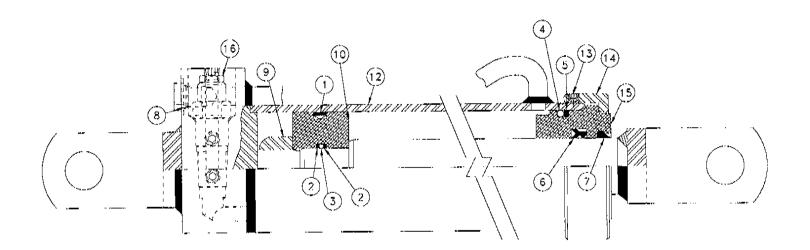


REF.	N <u>O.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.
3-45	1	246435 003	VALVE-PROPORTIONAL REDCNG/HLVN	1
		224858-005	SEAL KIT	1
3 45	2	246435-005	COIL	1
3-45	3	500659-003	VALVE CHECK, CARTRIDGE	1
		228128-009	SEAL KIT	1
3-45	4	246435 007	REGULATOR-PRESSURE COMPENSATE) 1
		246435-009	SEAL KIT	1
3-45	5	246435-011	SPOOL - PILOTED Z-WAY	1
		228124-005	SEAL KIT	1
3-45	6	246435-013	VALVE-PRESSURE REDCNG/RELIEVIG	1
		236316-005	SEAL KIT	1
3-45	7	246435-015	PLUG - ORIFICE	1
3-45	8	240324-011	PLUG-SAE	4
		240324-013	SEAL KIT	1
3-45	9	500659-021	SAE PLUG	1
		228128-015	SEAL KIT	1
		246435-001	VALVE - WATER CONTROL (INC. ALL ITEMS IN THIS FIGURE)	

(PAGE 3-46) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 3" X 40"

Figure 3-46

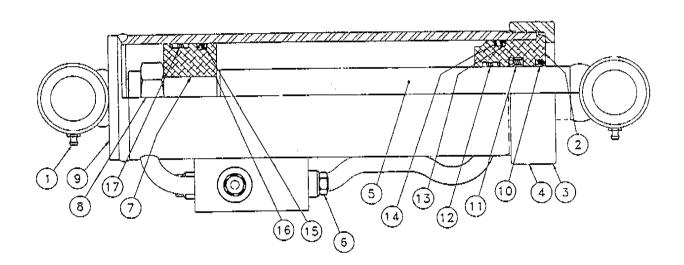


REF	<u>. NO.</u>	<u>PART NÖ.</u>	<u>UESCRIPTION</u>	QTY.
3-46	1	200780-001	UNI-RING	1
3-46	2	208331-001	RING-BACK UP	2
3-46	3	208332-001	O-RING	1
3-46	4	218021-011	O-RING	1
3.46	5	209057-001	WASHER-BACK UP	1
3-46	6	209058-001	U CUP-DOUBLE LIP	1
3-46	7	200808-001	WIPER	1
3-46	8	223998-003	O-RING	2
3-46	9	218496-007	LOCK NUT	1
3-46	10	209060-001	PISTON	1
3-4 6	11	224278-003	BARREL ASSEMBLY	1
3-46	12	224278-005	ROD ASSEMBLY	1
3-46	13	219125-011	NT SHISFT SCREW	1
3-46	14	218496-013	THREADED CAP	1
3-46	15	207403-005	CAP HEAD-THREAD	1
3-46	16	202529-001	VALVE CART CNTR BALANCE	1
		58035-007	REPAIR KIT	1
		224278-001	CYL 3"X40" W/ CB VALVE (INC. REF. 1-16))
		207403-009	SEAL KIT (INC. REF. 1-7)	

HYDRAULIC CYLINDER COMPONENTS - 3" X 12"

Figure 3-47

Revised February 1999 due to addition of figure to manual.



HEF.	NO.	PART NO.	DESCRIPTION	<u>QTY.</u>
3-47	1	224445-007	GREASE FITTING	2
3-47	2	224445-009	HFAD GLAND	1
3-47	3	99859-005	SCREW-LG SET .313-18 X .25	1
3-47	4	224445-011	HEAD GLAND CAP	1
3-47	5	224445-003	ROD WELDMENT	1
3-47	6	94488-033	VALVE-CHECK	2
3-47	7	224445-013	PISTON	1
3-47	৪	110188-007	LOCKNUT-1,125-12	1
3-47	9	224445-005	TUBE WELDMENT	1
3 47	10	99541-019	ROD WIPER	1
3-47	11	99541-015	POLYPACK	1
3-47	12	224445-015	WEAR BAND	1
3-47	13	215657-023	BACKUP RING	1
3-47	14	215657-019	O-RING	1
3-47	15	221729-007	T-SEAL	1
3-47	16	110188-013	O-RING	1
3-47	17	215657-009	WEAR BANI)	1
		224445-001	CYLINDER-3X12 HYD, COMPLETE	

224445-001 CYLINDER-3X12 HYD, COMPLETE (INC. REF. 1-17)

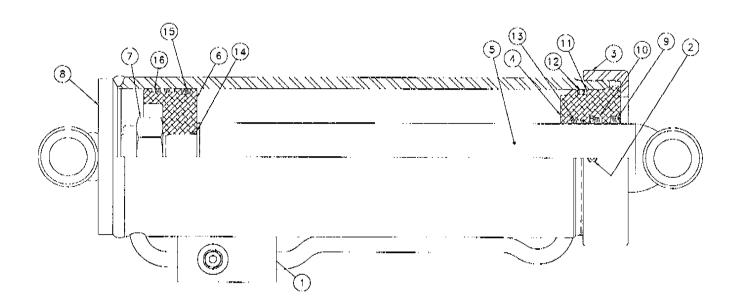
224445-017 SEAL KIT (INC. REF. 10-17)

(PAGE 3-48) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 4 1/2" X 12"

Figure 3-48

Revised February 1999 due to addition of figure to manual.



<u>RE</u> F	<u>NÖ.</u>	PART NO.	DESCRIPTION	QTY.
3 48	1	216695-007	P.O. CHECK VALVE	2
3-48	2	99859-005	\$CREW-LG \$ET .313-18 X .25	1
3-48	3	216695-009	HEAD GLAND CAP	1
3-48	4	216695-011	HEAD GLAND	1
3-48	5	216695-003	ROD WELDMENT	1
3-48	6	216695-013	PISTON	1
3-48	7	85777-031	NUT-1 1/2" 12 LOCK	1
3-48	8	216695-005	TUBE WELDMENT	1
3-48	9	215799-015	ROD WIPER	1
3.48	10	215799-013	POLYPAK	1
3-48	11	212568 019	BACKUP RING	1
3-48	12	212568-017	O-RING	1
3 48	13	215799-011	WEAR BAND	1
3-48	14	85923-023	O-RING	1
3-48	15	216695-015	T-SEAL	1
3-48	16	212568-009	WEAR BAND	1
		216695-001	CYLINDER-4 1/2"X12" COMPLETE	

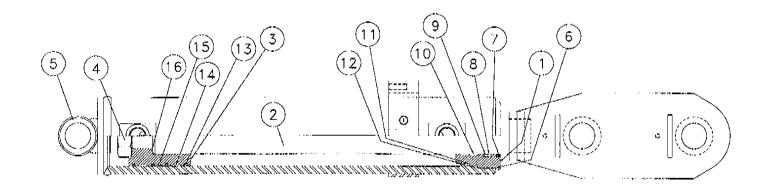
(INC. REF. 1-16) 216695-017 SEAL KIT (INC. REF 9-16)

D40X40/NAVTEC NAVIGATOR (PAGE 3-49)

HYDRAULIC CYLINDER COMPONENTS - 5" X 96" W/ 3" ROD

Figure 3-49

Revised February 1999 due to addition of figure to manual.

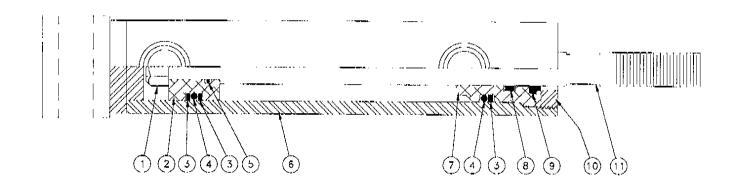


REF	. NÓ	PA <u>RT NO.</u>	DESCRIPTION	QTY.
3-49	1	224478-027	HEAD GLAND	1
3.49	2	224478-003	ROD WELDMENT	1
3-49	3	224478-007	PISTON	1
3-49	4	114215-007	LOCKNUT-2"-12	1
3-49	5	224478-005	TUBE WELDMENT	1
3-49	6	224478-009	O-RING	1
3-49	7	224478-011	CANNED ROD WIPER	1
3-49	8	224478-013	MODULAR BACKUP	1
3-49	9	224478-015	POLY PAK	1
3-49	10	224478-017	WEAR BAND	2
3-49	11	89540-011	WASHER-BACKUP	1
3-49	12	85777-019	O-RING	1
3-49	13	224478-019	CAST IRON RING	4
3-49	14	85777-029	WEARBAND	2
3-49	15	224478-021	PSP SFAL	1
3-49	16	224478-023	O-RING	1
		224478-001	CYLINDER-5X96 COMPLETE (INC, REF. 1-16)	
		224478-025	SEAL KIT (INC. REF. 6-16)	

(PAGE 3-50) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 1" X 3 1/2"

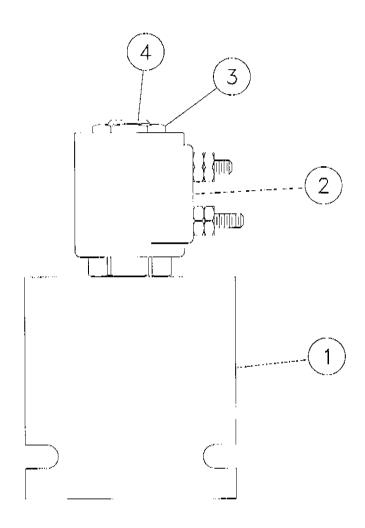
Figure 3-50



REF	<u>NÖ.</u>	PA <u>RT NO.</u>	DESCRIPTION	QTY.
3-50	1	234359-003	NUT	1
3-50	2	234359-005	PISTON	1
3-50	3	68094-057	WASHER-BACK-UP	3
3-50	4	68094-055	O-RING	1
3-50	5	1749-025	SEAL-O RING 15007 (90D)	1
3-50	6	234359-017	BARREL (W/CLEVIS AND PORTS)	1
3-50	7	234359-007	HEAD	1
3-50	8	234359-009	SEAL-ROD	1
3-50	9	234359-011	SEAL-DUST	1
3-50	10	234359-013	COLLAR	1
3-50	11	234359-015	SHAFT	1
		234359-019	REPAIR KIT (INC. REF. 3, 4, 5, 8 & 9)	
		234359-001	CYLINDER-1X3 ½ (INC. REF. 1-11)	

SOLENOID VALVE COMPONENTS

Figure 3-51

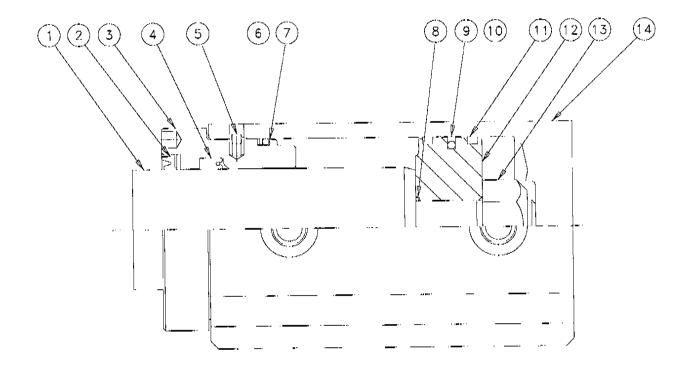


REF.	<u>NÖ.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	QTY.
3-51	1	244725-003	BODY - VALVE	1
3.51	2	244725-005	COIL	1
3-51	3	244725-007	NUT - COIL	1
3-51	4	244725-009	CARTRIDGE - SOLENOID	1
		244725-011	SEAL KIT	1
		244725-001	VALVE-2 POS 4 WAY (INC. ALL ITEMS IN THIS FIGURE)	

(PAGE 3-52) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - DUAL

Figure 3-52



HEH	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
3-52	1	234498-003	SHAFT	2
3-52	2	234498-005	WIPER	2
3-52	3	234498-007	HEAD	2
3-52	4	234498-009	U-CUP	2
3-52	5	234498-011	RETAINER WIRE	2
3-52	6	234498-013	BACK-UP WASHER	2
3.52	7	234498-015	O-RING	2
3-52	8	234498-017	O-RING	2
3-52	9	234498-019	PISTON SFAI	2
3-52	10	234498-021	O-RING	2
3-52	11	234498-023	WEAR RING	4
3-52	12	234498-025	PISTÓN	2
3.52	13	234498-027	LOCKNUT	2
3-52	14	234498-029	CASE	1

234498-031 SFAL KIT (INC. REF. 2, 4-11)

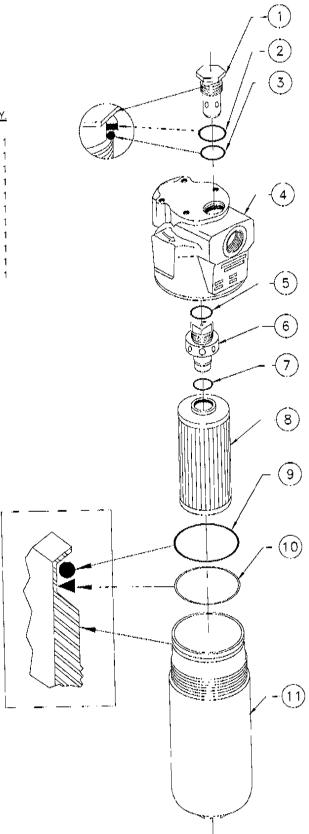
234498-001 CYLINDER-DUAL HYD. (INC. REF. 1-14)

D40X40/NAVTEC NAVIGATOR (PAGE 3-53)

OIL FILTER COMPONENTS

Figure 3-53

REF.	<u>NÖ.</u>	<u>PART NO.</u>	DESCRIPTION	OTY.	<u></u>
3-53 3-53 3-53 3-53 3-53 3-53 3-53 3-53	1 2 3 4 5 6 7 8 9 10	244560-003 244560-005 75353-003 244560-007 75353-013 244560-011 244560-013 244560-015 224400-005 244560-017	RING - BY-PASS BACKUP SEAL-HEAD/BY-PASS HOUSING HEAD SEAL-HEAD/MANIFOLD VALVE - REVERSE FLOW SEAL - ELEMENT TO ADAPTER ELEMENT - FILTER SEAL - HEAD/BOWL RING-HEAD TO BOWL BOWL	1 1 1 1 1 1 1 1	
		244560-001	FILTER-HIGH PRESSURE (INC. ALL ITEMS IN THIS FIGURE)		



(PAGE 3-54) D40X40/NAVTEC NAVIGATOR

HYDRAULIC FILTER COMPONENTS

Figure 3-54

Revised February 2000 due to update in parts list. Changed parts marked with *.

REF. NO.

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PART NO.

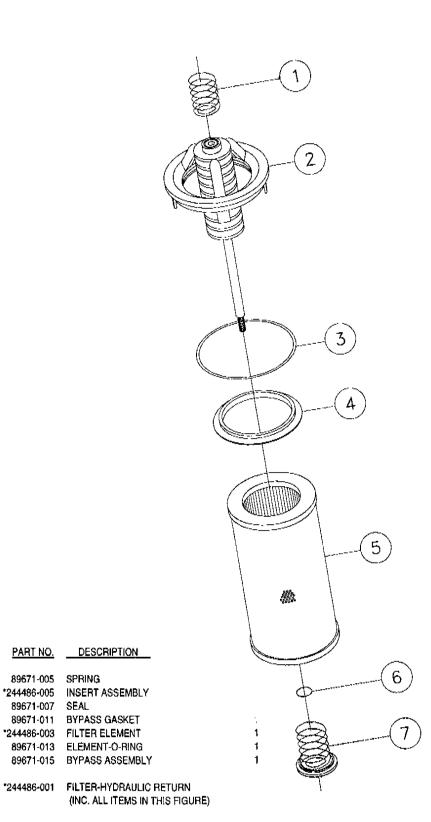
89671-007

89671-013

*244486-001

89671-005 SPRING

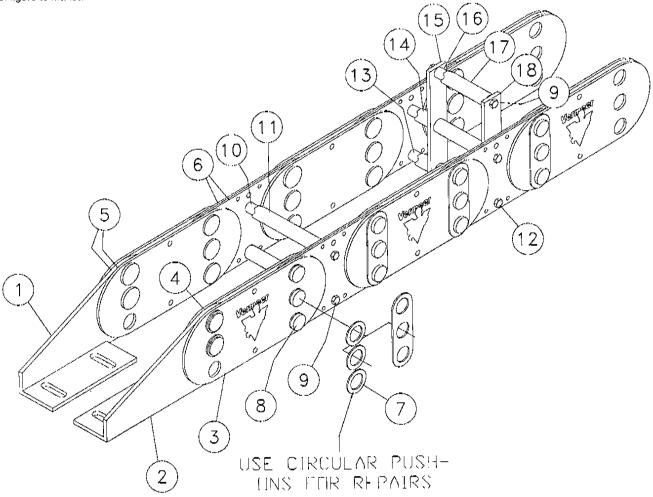
SEAL



D40X40/NAVTEC NAVIGATOR (PAGE 3-55)

HOSE CARRIER COMPONENTS

Figure 3-55

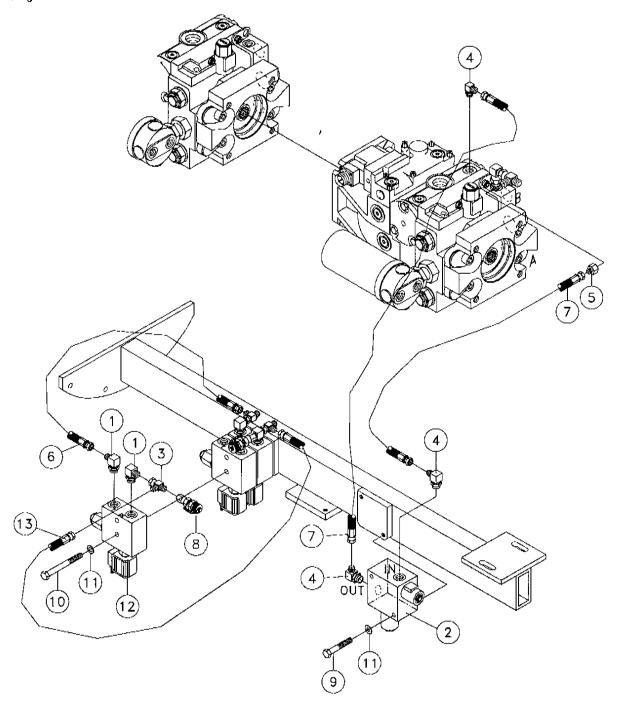


<u>REF. NO.</u>		PART NO.	DESCRIPTION	<u>QTY.</u>
3-55	1	234256-003	PT45E MOUNTING BRACKET ASSY (L	2
3-55	2	234256-005	PT45E MOUNTING BRACKET ASSY(R)	2
3-55	3	234256-007	PT45F OUTER LINK W/VERMEERLOGO	44
3-55	4	234256-009	PT45F OUTER LINK	44
3 55	5	234256-011	PT45E ANTI-FRICTION DISC	176
3-55	6	234256-013	PT45E INNER LINK 15.08 VERMEER	84
3-55	7	234256-015	PT45E CIRCULAR PUSH-ON	252
3-55	8	234256-017	PT45E HINGE PIN-PUCH ON FASTNR	252
3-55	9	234256-019	BOLT-WHIZ LOCK .250-20 X .620	84
3-55	10	234256-021	CARRIER ROD PT35E/45E 5.288	2
3-55	11	234256-023	NYLON SLEEVE PT\$5E/45E 5.163	2
3-55	12	234256-025	BOLT-WHIZ LOCK ,250-20X.88	4 2
3-55	13	234256-027	PT35E/45E CARRIER ROD 5.098	21
3-55	14	234256-029	PT35E/45E NYLON SLEEVE 1,829	42
3.55	15	234256-031	CARRIER PLATE WELDMENT	21
3-55	16	234256-033	PT35E/45E CARRIER ROD 2.954	21
3-55	17	234256-035	PT35E/45E NYLON SLEEVE 2.829	63
3-55	18	234256-037	CARRIER SIDE PLATE	21
		234256-001	CARRIER KIT (COMPLETE) (INC. ALL ITEMS LISTED IN THIS FIGUR	E)
		234256-039	HOSE CARRIER (INC. ONE OF REF. 15.8 TWO OF REF. 9 & 14, THREE OF REF. 11.4 & FOUR OF REF. 12)	

(PAGE 3-56) D40X40/NAVTEC NAVIGATOR

ROCKFIRE VALVE ASSEMBLY - SN176-

Figure 3-56

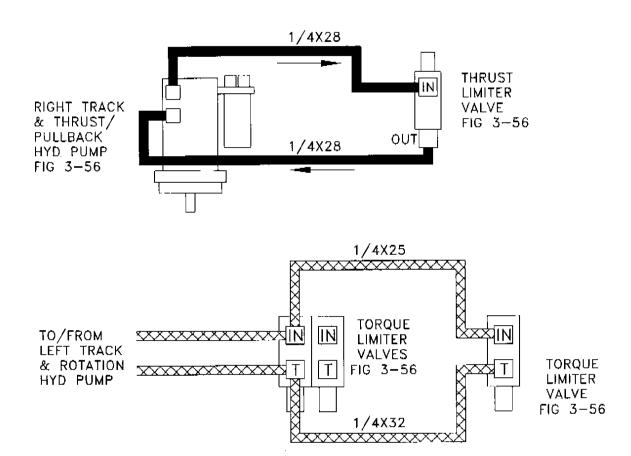


REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>OTY.</u>
3-56	t	57950-001	FITTING-6M X 4JIC 90 DEG	2	3-56	8	83015-001	FITTING-4F JIC DIAGNOSTIC	1
3-56	2	250131-001	VALVE-THRUST LIMITER		3-56	9	244147-001	BOLT-5/16-18X2 1/4 GR 8 ZINC PL	2
			(BŘEAKĎÓWN FIG. 3-58)	1	3-56	10	275231-001	BOLT-3/8-16X5 GR 8 HEX ZINC PLT	2
3-56	3	60248-001	TEE-4M JIC X 4M JIC X 4FS JIC	1	3-56	11	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	4
3-56	4	59423-001	FIT-4M JIC X 4M ADJ, 90 DEG ELBOW	3	3-56	12	250120-001	VALVE-REMOTE PRESS, LIMITER	
3-56	5	59928-001	6F JIC X 4M JIC ST REDUCER	1				(BREAKDOWN FIG. 3-59)	1
3-56	6	23843-559	HOSE-1/4X32 4FS JIC 3000 PSI	1	3-56	13	53843-325	HOSE-1/4X25 4FS JIC 3000 PSI	1
3-56	7	53843-181	HOSE-1/4X28 4FS JIC 3000 PSI	2					

HYDRAULIC COMPONENTS LOCATION DIAGRAM - ROCKFIRE

Figure 3-57

Revised February 2000 due to addition of figure to manual.

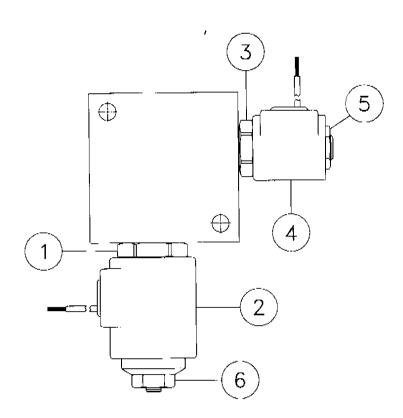


(PAGE 3-58) D40X40/NAVTEC NAVIGATOR

THRUST LIMITER VALVE COMPONENTS - ROCKFIRE

Figure 3-58

Revised February 2000 due to addition of figure to manual.



REF.	REF. NO. PART NO. DESCRIPTION		<u>DESCRIPTION</u> Q	<u>TY.</u>
3-58	1	2501310-003	CARTRIDGE-RELIEF W/ PILOTED SPOOL	1
		151954-001	SEAL KIT	1
3-58	2	251112-005	COIL-10 DL 12V/SPL	1
3-58	3	250131-005	CARTRIDGE-2 WAY NCHP	1
		278950-003	SEAL KIT	1
3-58	4	251117-009	COIL-#8	1
3-58	5	244725-007	NUT-COIL	1
3-58	6	250131-007	NUT-COIL	1

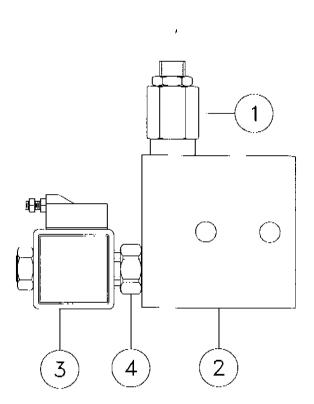
250131-001 VALVE-THRUST LIMITER (INC. ALL ITEMS IN FIGURE)

D40X40/NAVTEC NAVIGATOR (PAGE 3-59)

PRESSURE LIMITER VALVE COMPONENTS - ROCKFIRE

Figure 3-59

Revised February 2000 due to addition of figure to manual.



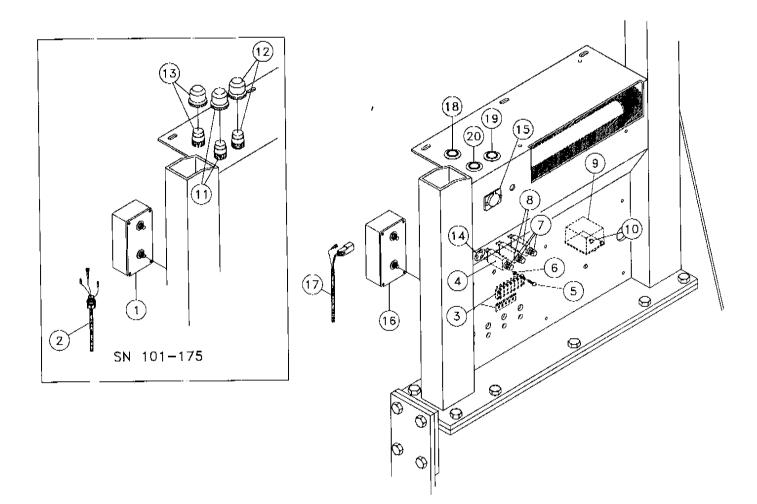
REF.	REF. NO. PART NO. DESCRIPTION		DESCRIPTION	QTY.
3-59	1	250120-003	VALVE-RELIEF	1
		122618-001	SEAL-KIT SOLENOID VALVE	1
3-59	2	NSS	BODY-VALVE	1
3-59	3	251063-003	COIL	1
3-59	4	250120-005	VALVE-SOLENOID	1
		228114-007	SEAL KIT	1
		250120-001	VALVE-PRESSURE LIMITER (INC. ALL ITEMS IN FIGURE)	

D40X40/NAVTEC NAVIGATOR (PAGE 4-1)

ROPS CONTROL PANEL ASSEMBLY

Figure 4-1

Revised February 2000 due to update in illustration & parts list. Added parts marked with *.



REF.	. NQ.	PART NO.	DESCRIPTION	QTY.	REF.	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.
4-1	1	217231-001	ZAP ALERT-CURRENT SENSE (\$N101-	175) 1	4-1	13	226209-001	BUTTON ASSY-CURRENT TEST	
4-1	2	224922-001	COIL-CURRENT(W/17'COAX CABLE)					(SN101-175)	1
			(SN101-175)	1			215993-001	BOOT-GREEN RUBBER	1
4-1	3	251991-001	TERMINAL - 6 POLE W/ JUMPER	1			904423-001	CONTACT BLOCK	1
4-1	4	72082-001	BREAKER-45-70-514-DD 22 AMP	1			215992-001	BUTTON-GREEN FLUSH CONTACT	1
4-1	5	1802-010	BOLT - 3/16" X 1" NC STOVE	2	4-1	14	904346-001	BUZZER	1
4-1	6	400-001	NUT-3/16 NC HEX	2			905001-001	BOLT-8-32 X 2 STOVE	2
4-1	7	89597-001	COVER-BREAKER SWITCH	3			904995-001	WASHER-8 INTERNAL STAR	2
4-1	8	78107-001	BREAKER-10 AMP	2			399-001	NUT-8-32 HEX	2
4-1	9	98937-001	SWITCH-MURPHY 12V/30 SEALED	1	4-1	15	236473-001	OUTLET-12 V STAINLESS	1
4-1	10	1802-006	BOLT-10-24 X 3/4 RND HD STOVE	2			57200-001	SCREW-#8-32X1/2 RND.HD.MACH.	2
4-1	11	215991-001	STRIKE ALERT TEST BUTTON ASSY				69759-001	LOCK NUT-#8-32 NYLON INSERT PL	2
			(SN101-175)	1	4-1	16	*281523-001	ZAP ALERT-CURRENT SENSE (SN176-)	1
		215993-001	BOOT-GREEN RUBBER	1	4-1	17	*276856-001	COIL-CURRENT W/ 17' COAX CABLE	
		215994-001	BLOCK-N.O. CONTACT	1				(SN176-)	1
		215992-001	BUTTON-GREEN FLUSH CONTACT	1	4-1	18	*277697-001	SWITCH-PUSH BUTTON ZAP ALERT	
4-1	12	215995-001	STRIKE ALERT RESET BUTTON ASSY					CURRENT TEST (SN176-)	1
			(SN101-175)	1	4-1	19	*277695-001	SWITCH-PUSH BUTTON ZAP ALERT	
		215996-001	BUTTON-BLACK EXTENDED CONTACT	1	, ,	•		RESET (\$N176-)	1
		215997-001	BOOT-BLACK RUBBER	1	4-1	20	*277696-001	SWITCH-PUSH BUTTON ZAP ALERT	•
		215998-001	BLOCK-N.C. CONTACT	1	• •			VOLTAGE TEST (SN176-)	1

(PAGE 4-2) D40X40/NAVTEC NAVIGATOR

DESCRIPTION

BULB, #112-1418

NUT-3/16 NC HEX

BREAKER-10 AMP

SWITCH ASSY

E-STOP LENS CONTACT BLOCK

BREAKER-5 AMP

(SN101-175)

(SN176-)

PART NO.

*27148-001

70889-001

89597-001

400-001

1802-010

231248-001

251672-001

78107-001

77964-001

66816-001

72079-001

86575-001 904563-001

904423-001

63579-001

66462-001

234343-001

97389-009

ROPS CONTROL PANEL (CONTINUED)

Figure 4-2

Revised August 2000 due to update in illustration & parts list. Changed parts marked with *.

REF. NO.

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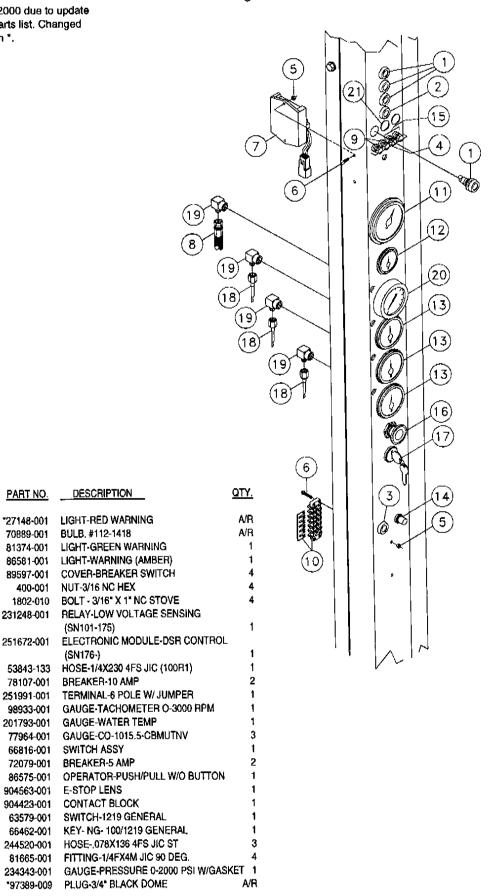
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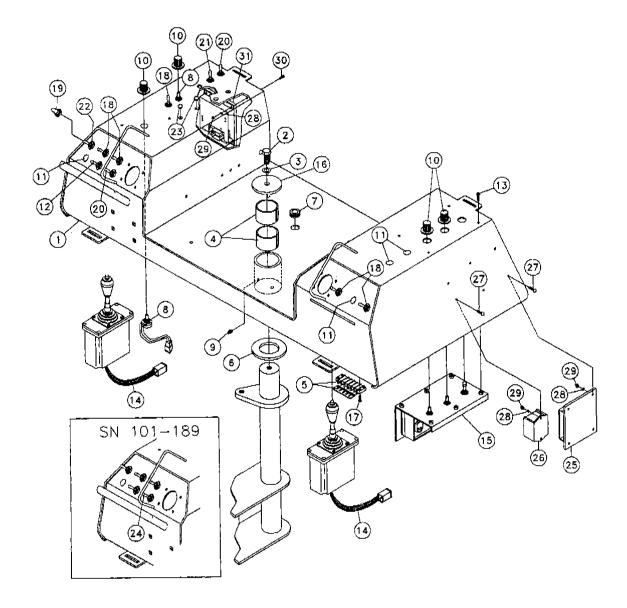
4-2



Revised August 2000 due to update in illustration & parts list. Changed part marked with *.

CONTROL PANEL ASSEMBLY

Figure 4-3



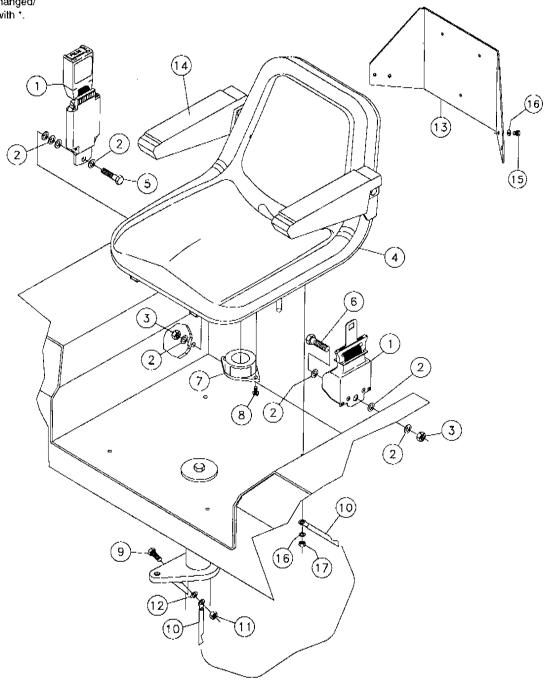
REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
4-3	1	216741-003	OPERATORS STATION ASSY		4-3	16	53276-001	WASHER-JACKSHAFT END	1
			(INC. REF. 4 & 9)	1	4-3	17	1802-006	BOLT-10-24 X 3/4 RND HD STOVE	2
4-3	2	235729-001	BOLT-1/2-13X1 GR8 HEX ZINC PLT	1	4-3	18	67292-001	SWITCH-TOGGLE 8500K9 SEALED	
4-3	3	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	1				(SN101-175 QTY WAS 1)	5
4-3	4	85790-003	BUSHING-SPRING 2 1/4X2 X 1 1/2	2	4-3	19	5537-001	COVER-TOGGLE SWITCH	11
4-3	5	251991-001	TERMINAL-6 POLE W/ JUMPER	1	4-3	20	*78104-001	SWITCH-DPDT MOMENTARY	2
4-3	6	215200-001	WASHER-THRUST	1	4-3	21	86579-001	SWITCH-4 POLE ON-ON-ON	1
4-3	7	1865-015	GROMMET-BLACK/5/8ID-3/16 GR.	1	4-3	22	248035-001	SWITCH-TOGGLE ON/ON 4 POLE	2
4-3	8	244485-001	POTENTIOMETER-10K W/PLUG		4-3	23	79942-001	PLUG-15/32 BUTTON	2
			(SN101-175 QTY WAS 1)	2	4-3	24	903389-001	SWITCH-TOGGLE #8510K1 (SN101-189)	1
4-3	9	598-001	ZERK-1/4" NF ST GREASE	1	4-3	25	251043-001	CONTROLLER-PWM VALVE DRIVER	1
4-3	10	78114-001	CONTROL KNOB #409D2K1	4	4-3	26	231385-001	TIMER-5 SECOND DELAY	1
4-3	11	97389-007	PLUG-9/16*BLACK DOME	4	4-3	27	1802-010	BOLT - 3/16" X 1" NC STOVE	6
4-3	12	210082-001	SWITCH-3 POSITION TOGGLE	1	4-3	28	480-001	WASHER-3/16 S/T LOCK	10
4-3	13	103202-001	SCREW-1/4-20X1/2 STH MACHINE	6	4-3	29	400-001	NUT-3/16 NC HEX	10
4-3	14	234876-001	HANDLE-CONTROL (BRKDWN FIG. 4-13) 2	4-3	30	1802-010	BOLT-3/16X1 NC STOVE (SN176-)	4
4-3	15	277806-001	BOX-DRILL/TRANSPORT	1	4-3	31	251043-001	CONTROLLER-PWM VALVE DRIVE (SN1)	76-) 1

(PAGE 4-4) D40X40/NAVTEC NAVIGATOR

SEAT ASSEMBLY

Figure 4-4

Revised February 1999 due to hardware updates. Changed/ added parts marked with *.

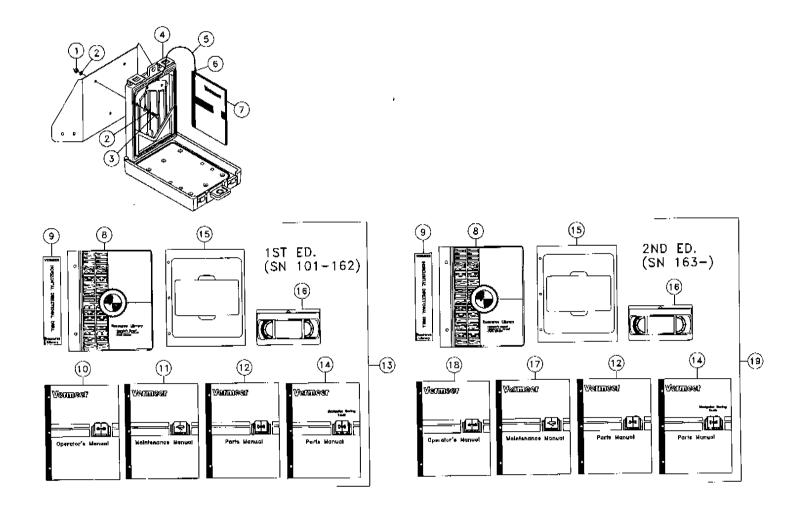


REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	. NO <u>.</u>	<u>PART NO.</u>	DESCRIPTION	<u>OTY.</u>
4-4	1	203254-001	2"SEAT BELT F08015	1	4-4	10	219380-001	STRAP-GROUND 4 GA.X12" E-E	1
4-4	2	*250540-001	WASHER-7/16 HARDENED FLAT Y/	8	4-4	11	235725-001	NUT-3/8-16 GR8 ZINC PLTD	1
4-4	3	250509-001	NUT-7/16-NC GR8 TOP LOCK Y/ZI	2	4-4	12	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	1
4-4	4	219186-001	SEAT (DOES NOT INC. ARM REST KIT)	1	4.4	13	235683-001	MOUNT-MANUAL BOX	1
4-4	5	*250507-001	BOLT-7/16-14X1 3/4" GR 8 HEX Z/P	1	4-4	14	220238-001	KIT-ARM REST (OPT.) (INC. MOUNTING	
4.4	6	*250584-001	7/16-14X1 1/4 GR5 HEX BOLT PL	1				HARDWARE)	1
4-4	7	219186-003	SWITCH-SAFETY	1	4-4	15	235740-001	BOLT-5X16-18X1/2 GR8 ZINC PLT	4
4-4	8	4474-004	5/16-18X1/2 FLG WHIZ BOLT	2	4-4	16	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	8
4-4	9	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	4-4	17	235741-001	NUT-5/16*-18 GR 8 Z/P	4

Revised February 2000 due to update in illustration & parts list. Changed/added parts marked with *.

LITERATURE BOX ASSEMBLY

Figure 4-5



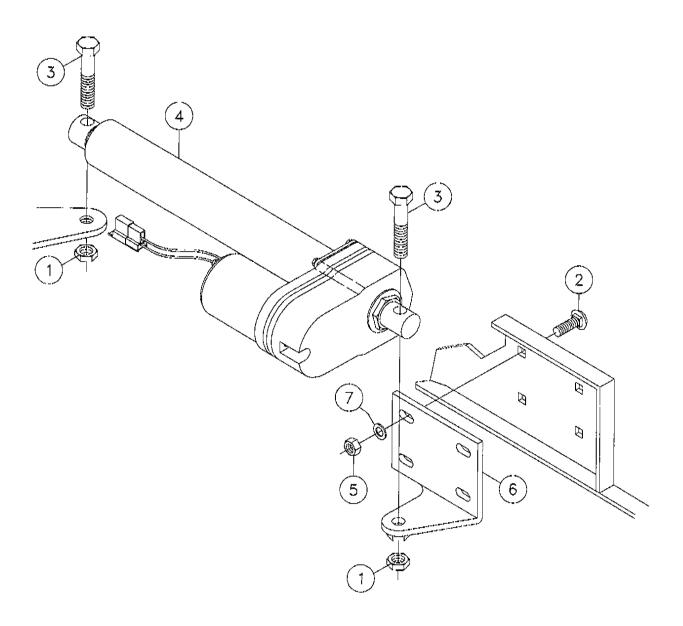
REF.	<u>NQ.</u>	PART NO.	DESCRIPTION	QTY.	REF.	NO.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
4-5	1	235732-001	NUT-1/4-20 GR8 ZINC PLTD	3	4-5	11	105400-P94	D40X40 NAVIGATOR MM 1ST ED	
4-5	2	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	6				(\$N101-162)	1
4-5	3	235734-001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	3	4-5	12	105400-P95	PM-D40X40 1ST	1
4-5	4	142410-001	CASE-6"X9"X1" OPERATOR MANUAL	1	4-5	13	*280544-001	D40X40 RESOURCE LIBRARY ASSEMBL	Υ
4-5	5	142954-001	CABLE068DIA.NYLON CT36.00	1				(INC. REF. 8-12 & 14-16)	1
4-5	6	142423-001	CRIMP-CABLE (FOR.068DIA.CABLE)	2	4-5	14	"105400-M37	NAVIGATOR BORING TOOLS PM	1
4-5	7	250586-001	MANUAL ASSY-D40X40 OM MINI 1ST		4-5	15	*144145-001	VHS HOLDER	1
			(INC. REF. 5 & 6) (SN101-162)	1	4-5	16	*251803-001	VIDEO-FIRESTICK DRILL STEM	1
		"284512-001	ASSYOM MINI D40X40 (EN) 2ND (SN163-	-) 1	4-5	17	*105400-Fl84	MM-D40X40 (EN) 2ND (SN163-)	1
4-5	8	144144-001	NOTE BOOK BINDER 2"-3"	1	4-5	18	*105400-R82	OM-D40X40 (EN) 2ND (SN163-)	1
4-5	9	7000B-222	DECAL RESOURCE LIB HORIZONTAL		4-5	19	*283809-001	D40X40 RESOURCE LIBRARY (SN163-)	
			DIRECTIONAL DRILL	1				(INC. REF. 8,9,12,14 & 15-18)	1
4-5	10	105400-P92	D40X40 NAVIGATOR OM 1ST ED						
			(SN101-162)	1					

(PAGE 4-6) D40X40/NAVTEC NAVIGATOR

SEAT ACTUATOR ASSEMBLY

Figure 4-6

Revised July 1999 due to update in illustration.



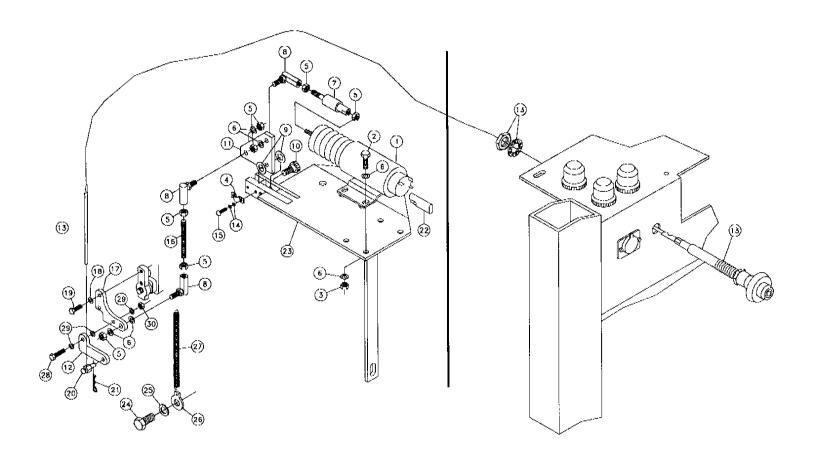
NO.	PART NO.	DESCRIPTION	QTY.
1	235722-001	NUT-1/2-13 GR8 JAM ZINC PLTD	2
2	375-010	BOLT-3/8"-16X1"GD#5 CARRIAGE	4
3	250573-001	BOLT-1/2-13 X 2 1/2 GR8 HX Y/Z	2
4	52864-001	ACTUATOR-D12-10A5-06	1
	52864-003	MOTOR-12V DC	1
	52864-005	SEALING KIT	1
	52864-007	INTERMEDIATE GEAR-10:1	1
	52864-009	CLUTCH	1
5	235725-001	NUT-3/8-16 GR8 ZINC PLTD	4
6	235256-001	MOUNT-SWING CYLINDER	1
7	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4
	3 4 5	1 235722-001 2 375-010 3 250573-001 4 52864-001 52864-005 52864-007 52864-009 5 235725-001 6 235256-001	1 235722-001 NUT-1/2-13 GR8 JAM ZINC PLTD 2 375-010 BOLT-3/8"-16X1"GD#5 CARRIAGE 3 250573-001 BOLT-1/2-13 X 2 1/2 GR8 HX Y/Z 4 52864-001 ACTUATOR-D12-10A5-06 52864-003 MOTOR-12V DC 52864-005 SEALING KIT 52864-007 INTERMEDIATE GEAR-10:1 52864-009 CLUTCH 5 235725-001 NUT-3/8-16 GR8 ZINC PLTD 6 235256-001 MOUNT-SWING CYLINDER

D40X40/NAVTEC NAVIGATOR (PAGE 4-7)

THROTTLE SOLENOID ASSEMBLY (SN101-189)

Figure 4-7

Revised August 2000 due to update in heading.



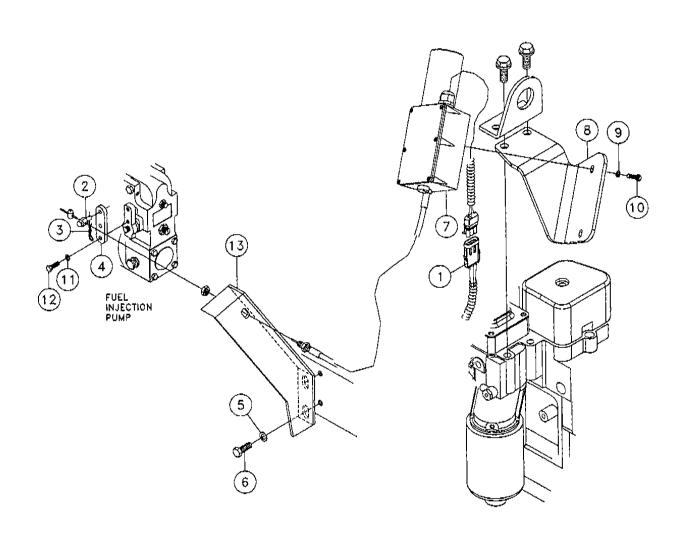
REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
4-7	1	904548-001	SOLENOID-#2370	1	4-7	16	238704-001	ROD-THROTTLE LINKAGE	1
4-7	2	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	4	4-7	17	250636-001	BAR - MOUNT THROTTLE LINKAGE	1
4-7	3	235741-001	NUT-5/16-18 GR8 ZINC PLTD	4	4-7	18	250511-001	6 MM HARD WASHER Y/ZINC	2
4-7	4	249810-001	CLAMP-A044476	1	4-7	19	243776-001	BOLT-6M X 15M GR8 HEX MET ZINC	2
4-7	5	445-001	NUT-5/16 NF HEX	7	4-7	20	2809-001	PIVOT AO47641	1
4-7	6	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	12	4-7	21	1794-007	HAIR PIN COTTER080 WIRE	1
4-7	7	214242-001	SWIVEL-5/16 SOLENOID SPRING	1	4-7	22	904562-001	RECTIFIER	1
4-7	8	4153-001	BALL JOINT - 5/16 SUPERIOR	3	4-7	23	238691-001	MOUNT-THROTTLE SOLENOID	1
4-7	9	4542-005	WSHR-7/80D X1/2ID X18 GA MB	2	4-7	24	250501-001	BOLT 12MM X 25MM GR10.9 HEX Y/	1
4-7	10	238717-001	SCREW-1/2X5/8 SOC HD SHOULDER	1	4-7	25	238249-001	12 MM HARD WASHER Y/ZINC	1
4-7	11	238690-001	PLATE-THROTTLE LINKAGE PIVT OS	1	4-7	26	230960-001	PLATE-WASHER TAB OS	1
4-7	12	250635-001	BAR - LINKAGE CABLE THROTTLE	1	4-7	27	1789-007	SPRING - EXT. #106 4 1/2" OA	1
4-7	13	228761-001	CABLE 84* CONTROL	1	4-7	28	235735-001	BOLT-1/4-20X1 GR8 HEX ZNC PLTD	1
4-7	14	480-001	WASHER-3/16 S/T LOCK	4	4-7	29	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	3
4-7	15	1802-006	BOLT-10-24 X 3/4 RND HD STOVE	2	4-7	30	248198-001	NUT-1/4 -20GR8 TOP LOCK ZINC	ĭ

(PAGE 4-7A) D40X40/NAVTEC NAVIGATOR

THROTTLE SOLENOID ASSEMBLY (SN190-)

Figure 4-7A

Revised August 2000 due to addition of figure to manual.



REF	<u>. NO.</u>	PART NO.	_ DESCRIPTION	QTY.
4-7A	1	283594-001	HARNESS-ADDCO THROTTLE KIT	1
4-7A	2	2809-001	PIVOT	1
4-7A	3	1794-007	HAIR PIN COTTER-,080 WIRE	1
4-7A	4	251205-001	BAR-THROTTLE ARM	1
4-7A	5	238249-001	12MM HARD WASHER Y/ZINC	2
4-7A	6	250516-001	BOLT-12M X 35M GR 8 Y/ZINC	2
4-7A	7	278758-001	SOLENOID-THROTTLE	1
4-7A	8	283595-001	PLATE-THROTTLE ACTUATOR	1
4-7A	9	235716-001	WASHER-1/4 SAE HARD ZINC PLTD	2
4-7A	10	235734-001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2
4-7A	11	250511-001	6MM HARD WASHER Y/ZINC	2
4-7A	12	243776-001	BOLT-6M X 15M HEX METRIC 2INL	2
4-7A	13	283585-001	BRACKET-CABLE MOUNT	1



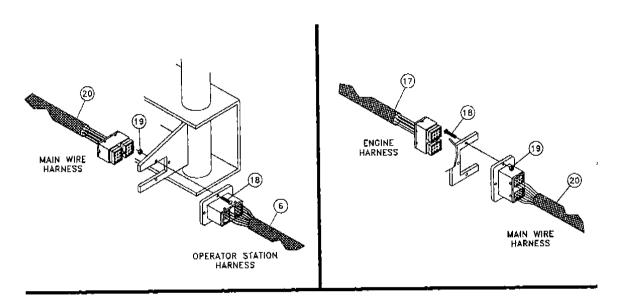
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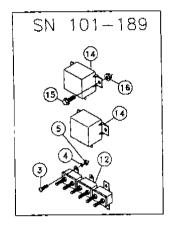
(PAGE 4-8) D40X40/NAVTEC NAVIGATOR

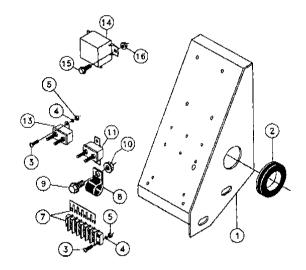
ENGINE ELECTRICAL PANEL/HARNESS ASSEMBLY

Figure 4-8

Revised August 2000 due to update in illustration & part list. Changed parts marked with *.





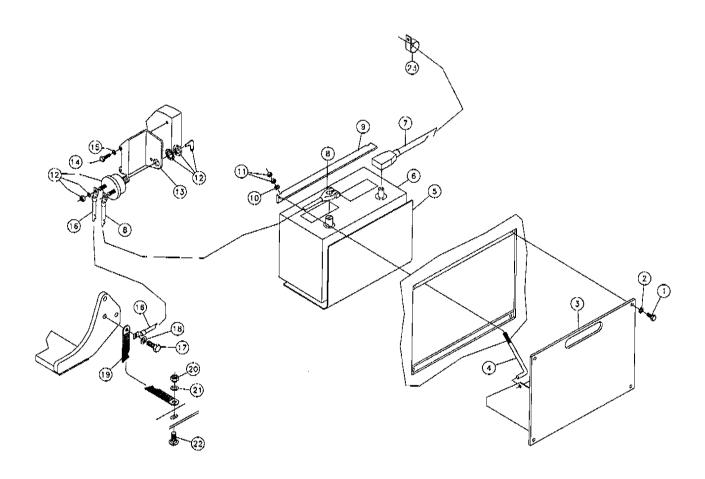


REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	. NO.	<u>PART NO.</u>	DESCRIPTION	QTY.
4-8	1	238646-001	PANEL-ELECTRICAL	1	4-8	12	64075-001	BREAKER-RAMCO 121A30A3M01	
4-8	2	902402-001	GROMMET-1 1/2*RUBBER	1				(SN101-189)	1
4-8	3	*1802-006	BOLT-10-24 X 3/4 AND HD STOVE	6	4-8	13	21285-001	BREAKER-RAMCO 12A15A0 15AMP	1
4-8	4	*480-001	WASHER-3/16 S/T LOCK	6	4-8	14	186217-001	RELAY-BOSCH SPST 75 AMP SEALED	
4-8	5	*400-001	NUT-3/16 NC HEX	6				(SN101-189)	1
4-8	6	251373-001	HARNESS-OP STATION WIRE	1	4-8	15	*4473-006	BOLT-1/4-20X3/4 FLG WHIZ	2
4-8	7	251991-001	TERMINAL-6 POLE W/ JUMPER	1	4-8	16	"405-001	NUT-1/4 NC FLG WHIZ LOCK	2
4-8	8	2595-001	HOSE CLAMP - TS7FR 1/2"	1	4-8	17	251376-001	HARNESS - ENGINE WIRE	1
4-8	9	4475-006	BOLT-3/8-16X3/4 FLG WHIZ	1	4-8	18	10530-012	SCREW-8-32X1 1/4 RDHDSLOT MACH	6
4-8	10	4536-001	NUT - 3/8-16 FLG. WHIZ LOCK	1	4-8	19	69759-001	LOCK NUT-#8-32 NYLON INSERT PL	6
4-8	11	86582-001	BREAKER-40A TYPE 1 W/METALCASE	1	4-8	20	251375-001	HARNESS - MAIN WIRE (\$N101-175)	1
							276865-001	HARNESS-D40X40 MAIN WIRE (SN176-)	1

BATTERY ASSEMBLY

Figure 4-9

Revised July 1999 due to update of switch & battery door.



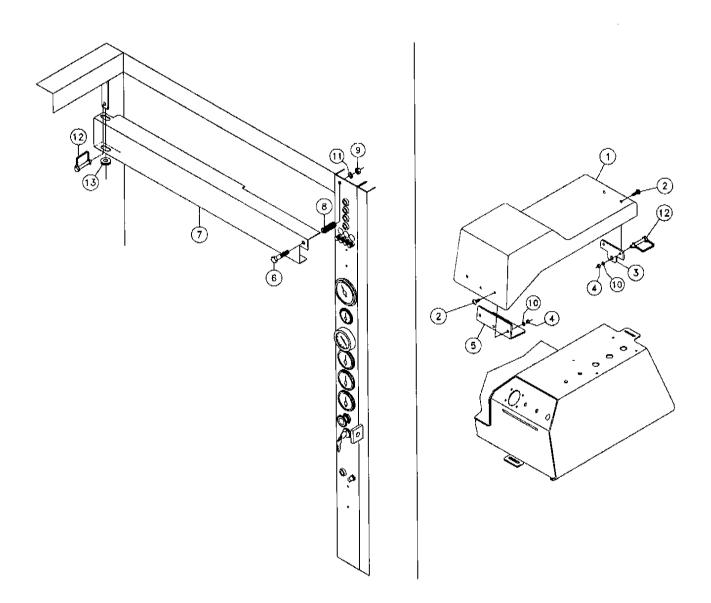
REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>OTY.</u>	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
4-9	1	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	4	4-9	13	251404-001	MOUNT-SWITCH	1
4-9	2	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	4-9	14	119512-001	BOLT-M8 X 1.25-25MM HEX HEAD	2
4-9	3	238589-001	DOOR-BATTERY ACCESS	1	4-9	15	250517-001	8MM HARD WASHER Y/ZINC	2
4-9	4	240880-001	BOLT-BATTERY ANCHOR	2	4-9	16	228400-001	CABLE-BATT, 2/0 GA.X15"E-E BLK	1
4-9	5	903884-001	PAD-BATTERY	1	4-9	17	250516-001	BOLT-12M X 35M GR.8 Y/ZINC	1
4-9	6	N/A	BATTERY	1	4- 9	18	238249-001	12 MM HARD WASHER Y/ZINC	1
4-9	7	245015-001	BATT CABLE-2/10 3/8 90D 48P-ER	1	4-9	19	218260-001	STRAP-4GA,X18"E-E BRAIDED GRND	1
4-9	8	244900-001	BATT.CABLE 2/0 X 15.0 N-E BLACK	1	4-9	20	75382-001	NUT-1/2-UNC GRADE 8 SLTL	1
4-9	9	214360-001	HOLDDOWN-BATTERY	1	4-9	21	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	1
4-9	10	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	2	4-9	22	377-014	BOLT-1/2-13X1 1/2"GD#5CARRIAGE	1
4-9	11	235741-001	NUT-5/16-18 GR8 ZINC PLTD	4	4-9	23	2595-007	HOSE CLAMP - TS7J 3/4"	1
4-9	12	904365-001	DISCONNECT SWITCH (INC. KEY)	1					

(PAGE 4-10) D40X40/NAVTEC NAVIGATOR

VANDAL SHIELD ASSEMBLY

Figure 4-10

Revised August 2000 due to update in illustration.

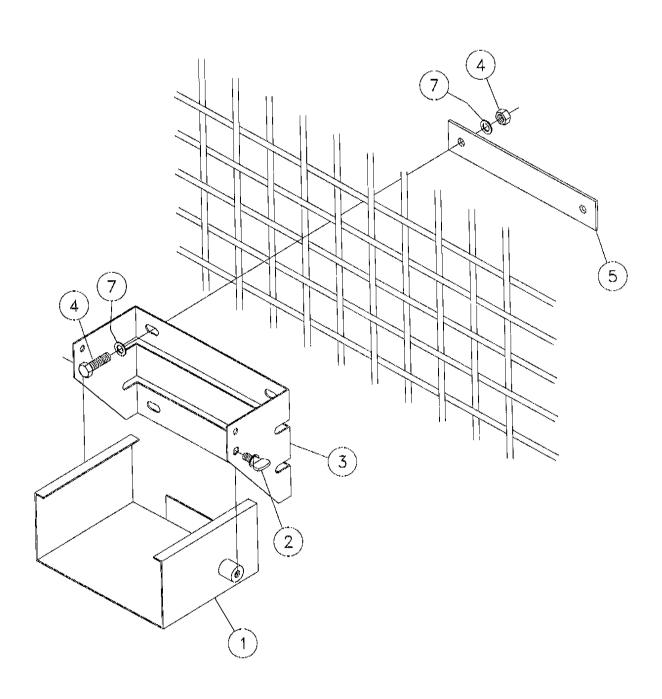


REF	. NO.	PART NO.	DESCRIPTION	<u>QTY.</u>
4-10	1	234393-001	VANDAL SHIELD-OPERATOR SEAT	2
4-10	2	20666-001	BOLT-5/16-18X3/4 GR5 TRUSS HD	10
4-10	3	234394-001	PLATE-SHIELD CLIP	2
4-10	4	235741-001	NUT-5/16-18 GR8 ZINC PLTD	10
4-10	5	234395-001	PLATE-SHIELD CLIP	2
4-10	6	235744-001	BOLT-1/2-13X2 3/4 GR8 ZNC PLTD	1
4-10	7	234408-001	VANDAL SHIELD-ROPS POST	1
4-10	8	1803-019	SPRING - COMP. #48 2 1/2* OA	1
4-10	9	235731-001	NUT-1/2-13 GR8 ZINC PLTD	1
4-10	10	235714-001	WASHER-5/16 SAE HARD ZINC PLTD	10
4-10	11	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	1
4-10	12	2108-001	LYNCH PIN-1/4X2*	3
4-10	13	902402-001	GROMMET-1 1/2" RUBBER	1

D40X40/NAVTEC NAVIGATOR (PAGE 4-11)

REMOTE LOCATOR HOLDER ASSEMBLY

Figure 4-11



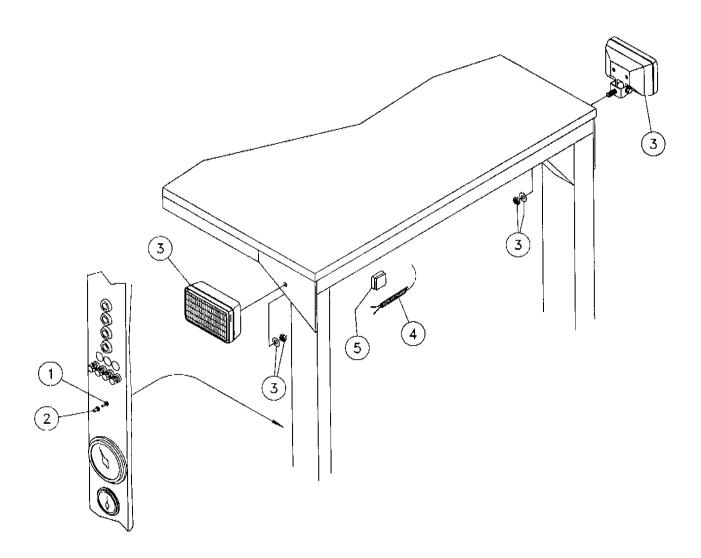
REF.	NO.	PART NO.	DESCRIPTION	<u>OTY.</u>
4-11	1	234369-001	HOLDER-REMOTE LOCATOR RECEIVER	1
4-11	2	234475-001	BOLT-5/16-18 X 1/2 THUMB SCREW	2
4-11	3	234368-001	PLATE-REMOTE BRACKET	1
4-11	4	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	4
4-11	5	234377-001	PLATE-REMOTE HOLDER BACK	2
4-11	6	235725-001	NUT-3/8-16 GR8 ZINC PLTD	4
4-11	7	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	8

(PAGE 4-12) D40X40/NAVTEC NAVIGATOR

WORK LIGHT ASSEMBLY

Figure 4-12

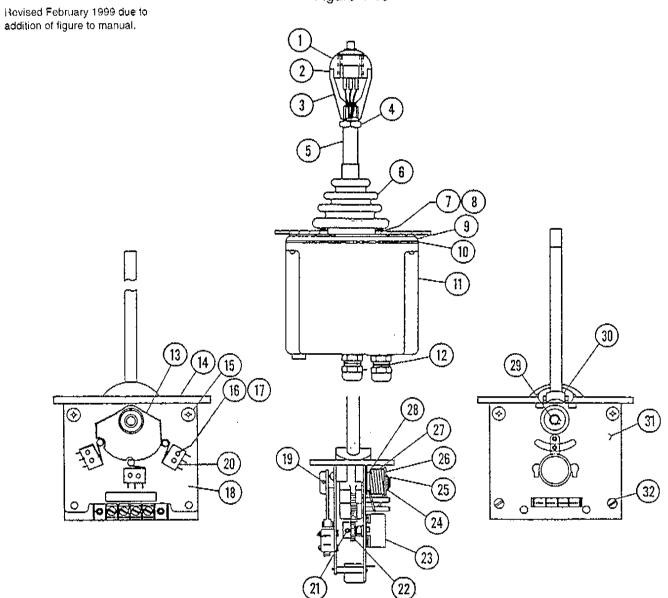
Revised August 2000 due to update in illustration.



REF.	<u>NO.</u>	PART NO.	<u>DESCRIPTION</u>	QTY.
4-12 4-12 4-12	1 2 3	67292-001 5537-001 215861-001	SWITCH-TOGGLE 8500K9 SEALED COVER-TOGGLE SWITCH LIGHT-3 X 5 FLOOD	1 1 2
4-12	4	244772-001	HARNESS-LIGHT	1
4-12	5	28950-001	CLIP-ADHES.LATCHING LC5-A-C8	4

CONTROL HANDLE COMPONENTS

Figure 4-13

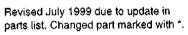


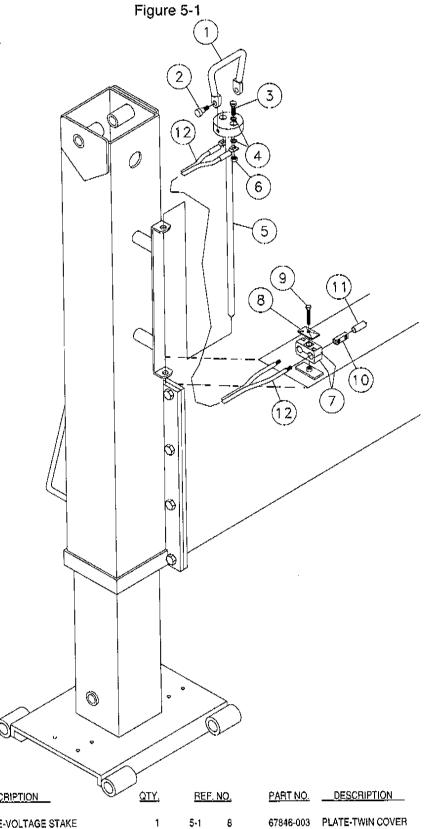
REF	. N <u>O.</u>	PART NO.	<u>DESCRIPTION</u>	QTY.	REF	NO.	<u>PART NO.</u>	<u>DESCRIPȚION</u>	QIY.
4-13	1	224294-003	SWITCH& TOP KNOB ASSEMBLY	1	4-13	18	234876-005	SWITCH PLATE ASSY	1
4-13	2	224294-005	SET SCREW	2	4-13	19	204734-011	SET SCREW	1
4-13	3	224294-007	KNOB	1	4-13	20	234876-007	SWITCH-MICRO SUB MIN.	3
4-13	4	413-001	NUT-3/8 NC HEX JAM	1	4-13	21	103733-003	SET SCREW	1
4-13	5	224294-031	LEVER	1	4-13	22	96070-011	GEAR-SPUR	1
4-13	6	119701-009	BOOT	1	4-13	23	234876-009	POTENTIOMFTFR	1
4-13	7	67708-001	SCREW	4	4-13	24	224294-015	WASHER-FLAT	1
4-13	8	67707-001	BUSHING	4	4-13	25	224294-017	WASHER-FLAT (NYLON)	1
4-13	9	67712-001	BUTTON	4	4-13	26	224294-019	BUSHING-OUTER (PLASTIC)	1
4-13	10	67/23-001	GASKET	1	4-13	27	96070-005	SPRING	1
4-13	11	67724-001	CASE	1	4-13	28	224294-021	BUSHING-INNER (PLASTIC)	t
4-13	12	69892-005	CONNECTÓR	2	4-13	29	224294-023	RETAINER RING	1
4-13	13	224294-009	CAM ASSEMBLY	1	4-13	30	224294-025	GEAR SEGMENT ASSEMBLY	1
4-13	14	119701-007	COVER	1	4-13	31	224294-027	POTENTIOMETER PLATE ASSEMBLY	1
4-13	15	103733-005	SCREW	2	4-13	32	224294 029	SCREW-PAN HEAD	2
4-13	16	234876-003	SCREW-2-56X9/16	6					
4-13	17	89807-005	PLATE SPACER	3			234876-001	HANDLE-CONTROL (COMPLETE)	
		89807-007	PLATE-MOUNTING (THREADED)	3				(INC. ALL ITEMS IN THIS FIGURE)	



D40X40/NAVTEC NAVIGATOR (PAGE 5-1)

VOLTAGE STAKE ASSEMBLY

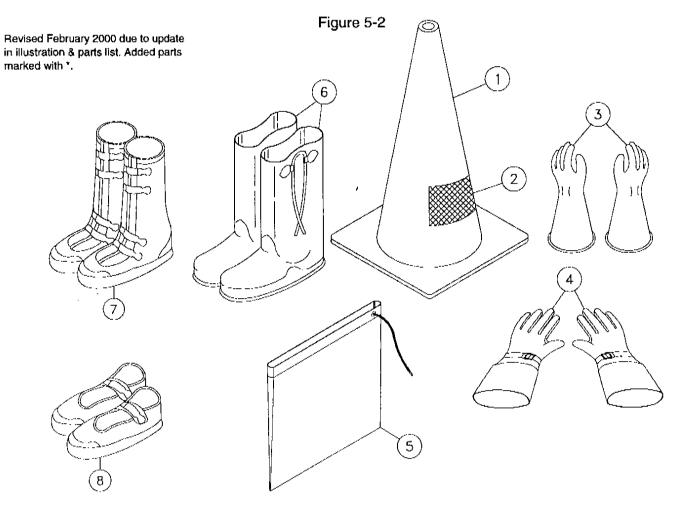




REF.	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
5-1	1	234164-001	HANDLE-VOLTAGE STAKE	1	5-1	8	67846-003	PLATE-TWIN COVER	1
5-1	2	240056-001	SCREW-1/2-13X1/2 NCSOC HD ZNC	2	5-1	9	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	1
5-1	3	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	2	5-1	10	904355-001	CONNECTOR	2
5-1	4	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	5-1	11	208065-001	SHRINK TUBE-3/4ID COMMERCL GRD	
5-1	5	234167-001	STAKE-VOLTAGE	1				(SPECIFY LENGTH)	2
5-1	6	235725-001	NUT-3/8-16 GR8 ZINC PLTD	2	5-1	12	217967-001	CORD ASSY - VOLTAKE STAKE	
5-1	7	900035-003	DOUBLE HOSE CLAMP PLATE 3/8	2				(INC. REF. 1, 2, 3, 4, 5, 6, 11 & 12)	1

(PAGE 5-2) D40X40/NAVTEC NAVIGATOR

SAFETY FEATURES - GLOVES, BOOTS, CONES



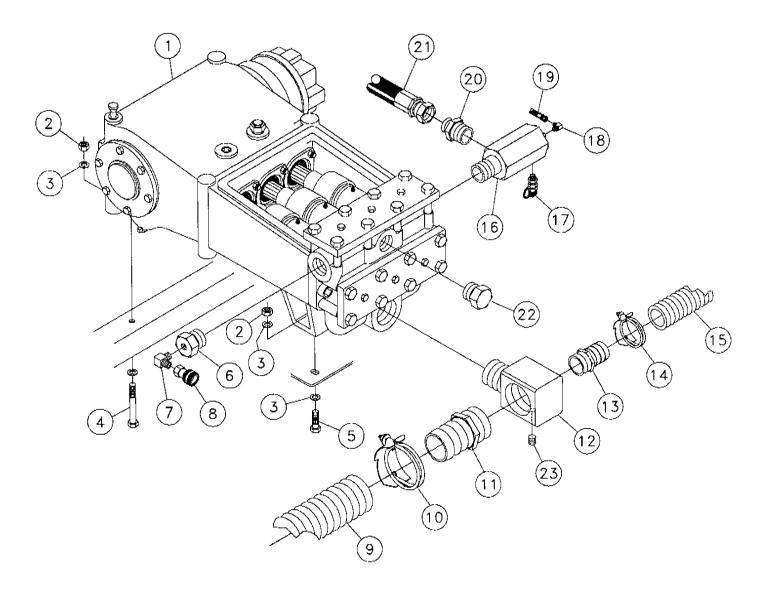
REF.	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.	REF. N	<u>10.</u>	PART NÓ.	DESCRIPTION	QTY.
5-2	1	904541-001	CONES-ORANGE PVC	4	5-2	5	210784-001	BAG-GLOVE	1
5-2	2	70000-530	DECAL-DANGER	4	5-2	6	210780-009	BOOTS-SIZE 9 OVER-THE-SHOE	1 pair
		70001-530	DECAL-DANGER (INTERNATIONAL)	4			210780-001	BOOTS-SIZE 10 OVER-THE-SHOE	1 pair
5-2	3	210782-001	GLOVES-SIZE 9 RUBBER INSULATE	1 pair			210780-003	BOOTS-SIZE 11 OVER-THE-SHOE	1 pair
		210782-005	GLOVES-SIZE 9 1/2 RUBBER INSUL	1 pair			210780-005	BOOTS-SIZE 12 OVER-THE-SHOE	1 pair
		210782-003	GLOVES-SIZE 10 RUBBER INSULATE	1 pair			210780-007	BOOTS-SIZE 13 OVER-THE-SHOE	1 pair
		210782-007	GLOVE-SIZE 11 RUBBER INSULATED	1 pair			210780-011	BOOTS-SIZE 14 OVER-THE-SHOE	1 pair
		210782-009	GLOVE-SIZE 12 RUBBER INSULATED	1 pair			210780-013	BOOTS-SIZE 15 OVER-THE-SHOE	1 pair
		210783-001	GLOVES-SIZE 9 LEATHER PROTECT	1 pair			210780-015	BOOTS-SIZE 16 OVER-THE-SHOE	1 pair
5-2	4	210783-005	GLOVES SIZE 9 1/2 LEATHER PROT	1 pair	5-2	7	*279118-001	BOOT-4 BUCKLE SIZE 9	1 pair
		210783-003	GLOVES-SIZE 10 LEATHER PROTECT	1 pair			*279118-002	BOOT-4 BUCKLE SIZE 10	1 pair
		210783-007	GLOVE-SIZE 11 LEATHER PROTECT	1 pair			*279118-003	BOOT-4 BUCKLE SIZE 11	1 pair
		210783-009	GLOVE-SIZE 12 LEATHER PROTECT	1 pair			*279118-004	BOOT-4 BUCKLE SIZE 12	1 pair
		210781-001	GLOVE KIT-SIZE 9 (INC. 1 PAIR OF				"279118-005	BOOT-4 BUCKLE SIZE 13	1 pair
			RUBBER GLOVES, 1 PAIR OF LEATHE	R			*279118-006	BOOT-4 BUCKLE SIZE 14	1 pair
			GLOVES & 1 GLOVE BAG REF. 5)	1			"279118-007	BOOT-4 BUCKLE SIZE 15	1 pair
		224979-001	GLOVE KIT-SIZE 9 1/2 (INC, 1 PAIR OF				*279118-008	BOOT-4 BUCKLE SIZE 16	1 pair
			GLOVES, 1 PAIR OF LEATHER		5-2	8	*279119-001	BOOT-ANKLE RUBBER SIZE 9	1 pair
			GLOVES & 1 GLOVE BAG REF. 5)	1			*279119-002	BOOT-ANKLE RUBBER SIZE 10	1 pair
		210785-001	GLOVE KIT-SIZE 10 (INC. 1 PAIR OF				*279119-003	BOOT-ANKLE RUBBER SIZE 11	1 pair
			RUBBER GLOVES, 1 PAIR OF LEATHE	R			*279119-004	BOOT-ANKLE RUBBER SIZE 12	1 pair
			GLOVES & 1 GLOVE BAG REF. 5)	1			279119-005	BOOT-ANKLE RUBBER SIZE 13	1 pair
		224990-001	GLOVE KIT-SIZE 11 (INC. 1 PAIR OF				*279119-006	BOOT-ANKLE RUBBER SIZE 14	1 pair
			RUBBER GLOVES, 1 PAIR OF LEATHE	R			"279119-007	BOOT-ANKLE RUBBER SIZE 15	1 pair
			GLOVES & 1 GLOVE BAG REF. 5)	1			"279119-008	BOOT-ANKLE RUBBER SIZE 16	1 pair
		224991-001	GLOVE KIT-SIZE 12 (INC. 1 PAIR OF						
			RUBBER GLOVES, 1 PAIR OF LEATHE	R					
			GLOVES & 1 GLOVE BAG REF. 5)	1					

D40X40/NAVTEC NAVIGATOR (PAGE 6-1)

WATER PUMP ASSEMBLY (SN101-193)

Figure 6-1

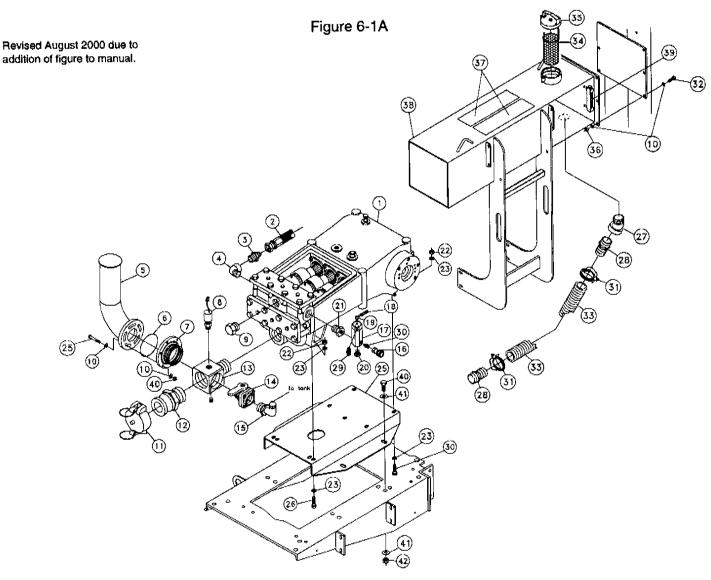
Revised August 2000 due to update in heading.



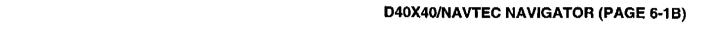
REF	. NO.	<u>PART NO.</u>	DESCRIPTION	QTY.	REF	. NO.	PART NO.	DESCRIPTION	QTY.
6-1	1	244460-001	PUMP-SC65 2.25 TRIPLEX PLUNGER		6-1	13	215426-001	HOSE BARB-2X2 MPT (POLY)	1
			(BREAKDOWN FIG. 6-14 thru 6-19)	1	6-1	14	238064-001	CLAMP-2" POWERLOCK HOŚE	1
6-1	2	250513-001	NUT-5/8-NC GR8 TOP LOCK Y/ZINC	4	6-1	15	278116-001	HOSE-2" HD SUCTION 45"	1
6-1	3	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	8	6-1	16	239494-001	WATER PUMP OUTLET ASSY-SC65	·
6-1	4	250542-001	5/8-11X4 3/4 GR.8 HEX BOLT	2				(BREAKDOWN FIG. 6-11)	1
6-1	5	238245-001	BOLT 5/8"-11 X 2 1/4" GR8 HEX	2	6-1	17	75493-001	COUPLER-MALE TCM20-7/16"UNF-V	1
6-1	6	730-040	HEX BUSHING-1 1/2X1/2	1	6-1	18	59423-001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1
6-1	7	904831-001	FITTING 1/2MNPT X 1/2MNPT 90	1	6-1	19	53843-133	HOSE-1/4X230 4FS JIC (100R1)	1
6-1	8	227235-001	COUPLER-1/2*NPT QUICK(FEMALE)	1	6-1	20	71251-001	FITTING-1 1/4M NPT X 20M JIC ST	1
6-1	9	278114-001	HOSE-3" X 61"	1	6-1	21	250566-001	HOSE-1 1/4X92 20 FSJIC ST3000	1
6-1	10	234491-001	CLAMP-3* POWERLOCK HOSE	1	6-1	22	732-015	1 1/2" PIPE PLUG BLACK STEEL	1
6-1	11	215462-001	HOSE BARB-3X3 NPT MALE (POLY)	1	6-1	23	735-003	1/2" COUNTERSUNK PIPE PLUG	1
6-1	12	244466-001	FITTING-SC-65 PUMP INLET	1					

(PAGE 6-1A) D40X40/NAVTEC NAVIGATOR

WATER PUMP ASSEMBLY - APLEX (SN194-)



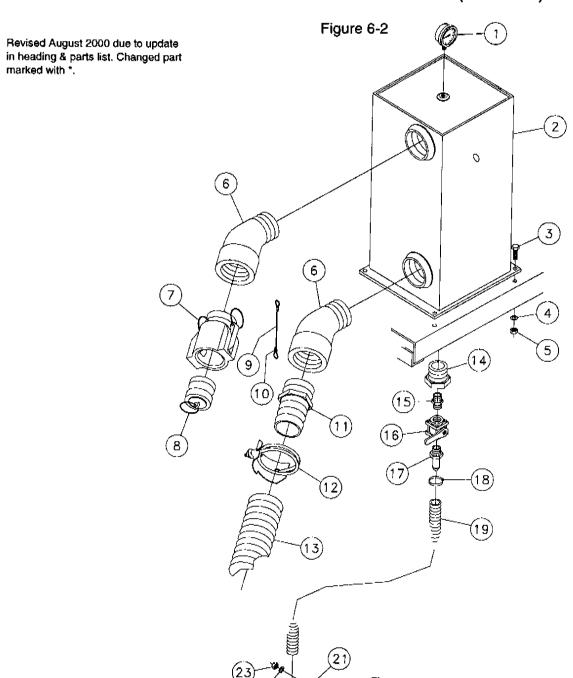
REF.	NQ.	PART NO.	DESCRIPTION	QTY.	REF.	<u>NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>
6-1A	1	244460-001	PUMP-SC65 2.25 TRIPLEX PLUNGER		6-1A	21	120886-001	FITTING-PIPE COUPLING NPT	1
0- IV	•	247100 001	(BREAKDOWN FIG. 6-14 THRU 6-19)	1	6-1A	22	250513-001	NUT-5/8NC GR 8 TOP LOCK Y/ZINC	4
6-1A	2	239496-001	HOSE-1 1/2 X 92 24FS00 JIC ST/ST	1	6-1A	23	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	8
6-1A	3	94569-001	FITTING-1 1/2 M NPT X 24 M JIC STR.	1	6-1A	24	240334-001	BOLT-1/2-13X1 3/4 GR 8 ZINC PLT	5
6-1A	4	287086-001	ELBOW-1.5" 90 DEG BLK ST (1500 PSI)	1	6-1A	25	287063-001	PLATE-PUMP SUPPORT	1
6-1A	5	287073-001	TUBE-SUCTION STABILIZER (SC-65)	1	6-1A	26	238245-001	BOLT-5/8"-11ZX2 1/4" GR 8 HEX	4
6-1A	6	228181-001	O-RING-#243 70D BUNA-N	1	6-1A	27	224939-001	ELBOW-2* 45 DEG STREET POLY	1
6-1A	7	287054-001	FLANGE-WATER PUMP 2 1/2" INLET	1	6-1A	28	215426-001	HOSE BARB-2X2 MPT (POLY)	2
6-1A	8	287069-001	SWITCH-SEALED 10 PSI PRESSURE	1	6-1A	29	75493-001	COUPLER-MALE TECM20-7/16" UNF-V	1
6-1A	9	732-015	1 1/2" PIPE PLUG BLACK STEEL	1	6-1A	30	707-003	½" NPT HEX NIPPLE	1
6-1A	10	485-025	WASHER-1/2 FLAT HARDENED ZINC	14	6-1A	31	238064-001	CLAMP-2" POWERLOCK HOSE	2
6-1A	11	215429-001	CAP-3" CAM LOCK	1	6-1A	32	235721-001	BOLT-1/2"-13X1 1/4" GR 8 ZINC PLT	6
6-1A	12	215427-001	MALE ADAPTER 3" MPT (POLY)	1	6-1A	33	278116-001	HOSE-2" HD SUCTION 45"	1
6-1A	13	287071-001	FITTING-SC-65 PUMP INLET	1	6-1A	34	99998-001	STRAINER-6" .030 STEEL	1
6-1A	14	236045-001	VALVE-2" FPT X 2" MPT POLY BALL		6-1A	35	224985-001	CAP-VENTED FUEL TANK	1
0-17		2000 10 00 .	(BREAKDOWN FIG. 6-12)	1	6-1A	36	75382-001	NUT-1/2 UNC GR 8 SLTL	5
6-1A	15	287092-001	HOSE BARB-2X2 MPT 90 DEG (POLY)	1	6-1A	37	5776-001	TAPE-SAFETY WALK 4 WIDE	2.5
6-1A	16	227235-001	COUPLER-1/2" NPT QUICK (FEMALE)	1	6-1A	38	287003-001	TANK-WP ANTI-FREEZE	1
6-1A	17	250611-001	WATER PRESSURE MANIFOLD ASSY.		6-1A	39	81590-001	GAUGE-SIGHT	1
Q-1K	''	2,50011 001	(BREAKDOWN FIG. 6-13)	1	6-1A	40	243905-001	BOLT-3/4-10X1 3/4 GR 8 HEX ZP	4
6-1A	18	53843-607	HOSE-1/4X258 4FS JIC 3000 PSI	1	6-1A	41	235717-001	WASHER-3/4 FLAT HARDENED	
6-1A	19	59423-001	FIT-4M JIC X 4M ADJ. 90 DEG. ELBOW	1				YELLOW ZINC	8
6-1A	20	732-009	PLUG-3/4" PIPE PLUG STEEL	1	6-1A	42	235739-001	NUT-3/4-10 GR 8 ZINC PLTD	4



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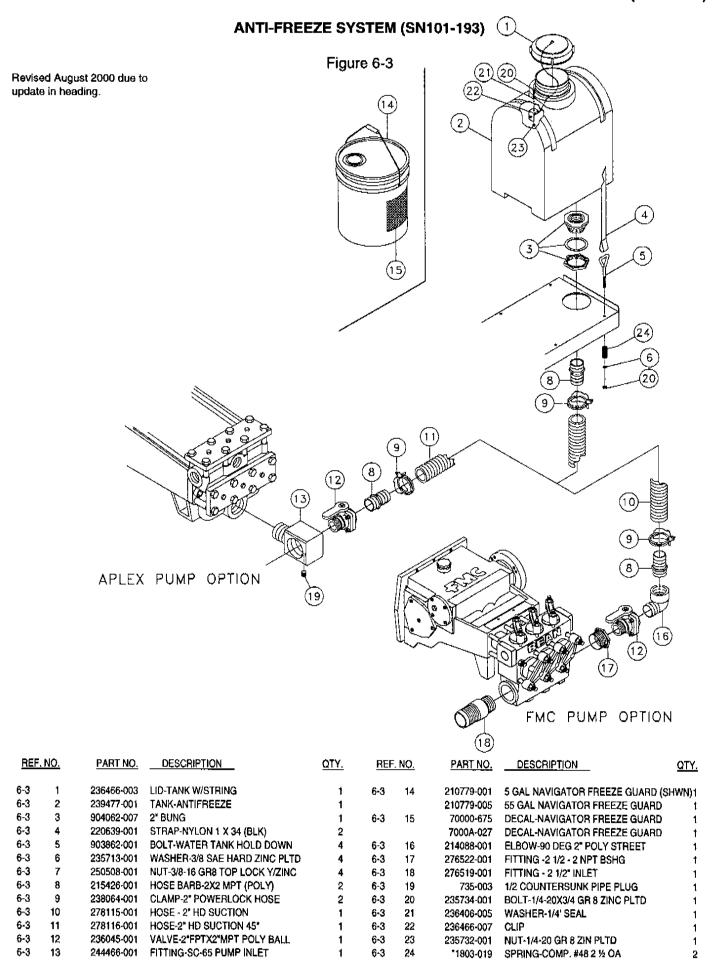
(PAGE 6-2) D40X40/NAVTEC NAVIGATOR

SUCTION STABILIZER TANK ASSEMBLY (SN101-193)



<u>R</u> EF	. NO.	PART NO.	<u>DESCRIPTION</u>	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
6-2	1	234473-001	GAUGE-30 HG-0-100 PSI	1	6-2	13	278114-001	HOSE-3* X 61*	1
6-2	2	244470-001	TANK-SUCTION STABILIZER	1	6-2	14	225838-001	BUSHING-2X3/4 NPT REDUCER POLY	1
6-2	3	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	6-2	15	231049-001	NIPPLE-3/4" NPT SHORT (POLY)	1
6-2	4	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	4	6-2	16	225847-001	VALVE-3/4"FPT BALL (POLY)	1
6-2	5	250512-001	NUT-1/2-NG GR8 TOP LOCK Y/ZING	4	6-2	17	905437-001	FITTING-3/4X1 BARB ST.NYLON	1
6-2	6	238079-001	ELBOW 3" 45 DEG STR POLY	2	6-2	18	1580-003	HOSE CLAMP - 3/4"	1
6-2	7	*238080-001	COUPLER-3" FEMALE MNPT (POLY)	1	6-2	19	905429-007	HOSE 1"X 54" PVC SUCTION	1
6-2	8	234480-001	PLUG-3" CAM LOCK (POLY)	1	6-2	20	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1
6-2	9	1830-059	NYLON COATED CABLE-3/32-10.00	1	6-2	21	204721-001	HOSE CLAMP-CCV2913 1 3/4*	1
6-2	10	1838-001	CONNECTOR-WIRE (ETC)	2	6-2	22	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	1
6-2	11	215462-001	HOSE BARB-3X3 NPT MALE (POLY)	1	6-2	23	235725-001	NUT-3/8-16 GR8 ZINC PLTD	i
6-2	12	234491-001	CLAMP-3" POWERLOCK HOSE	t	. –				•

D40X40/NAVTEC NAVIGATOR (PAGE 6-3)

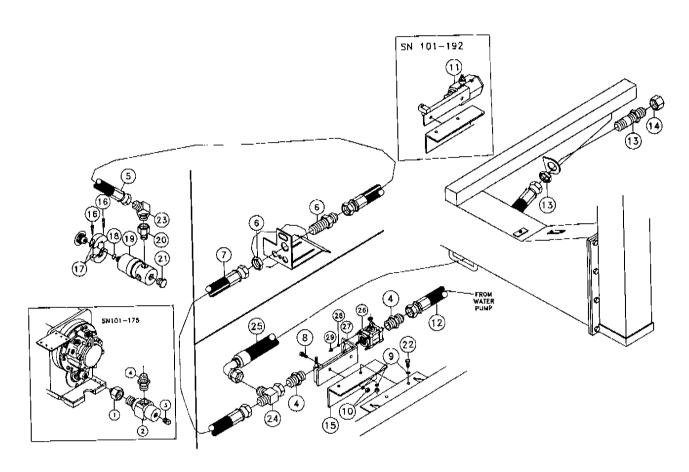


(PAGE 6-4) D40X40/NAVTEC NAVIGATOR

WATER LINE ASSEMBLY

Figure 6-4

Revised August 2000 due to update in illustration & parts list, Added parts marked with *.

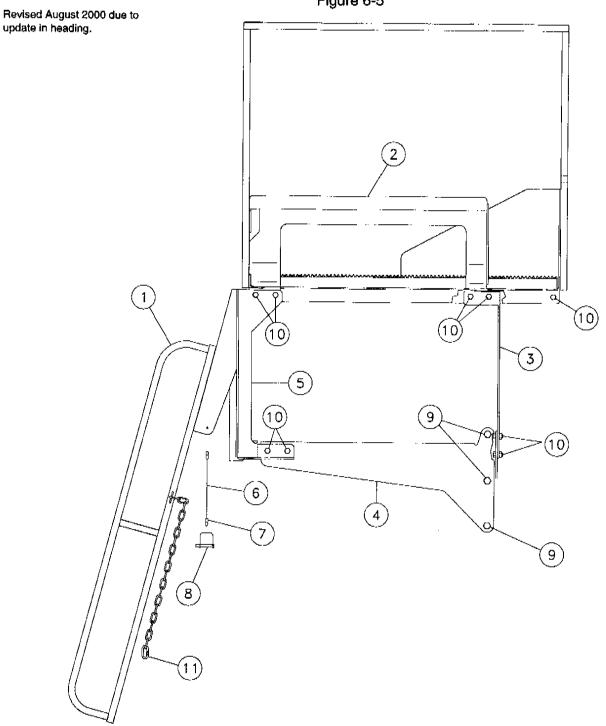


REF.	<u>NO.</u>	PART NO.	DESCRIPTION	<u>0</u> TY.	REF.	NO.	PART NO.	DESCRIPTION QT	<u>Y.</u>
6-4	1	244476-001	FITTING-12 MORING X 1 1/2 NPTF		6-4	13	244517-001	FITTING-24M JIC BULKHEAD ST (SN176-)	1
• •	•		(\$N101-175)	1	6-4	14	86315-001	FITTING-CAP NUT-24F JIC (SN176-)	1
6-4	2	277834-001	SWIVEL-200 GPM WATER W/BRG.		6-4	15	284508-001	BRACKET-BALL VALVE OFFSET	1
U +	-	271001007	(BREAKDOWN FIG. 1-25) (SN101-175)	1	6-4	16	242906-001	CAPSCREW-5/16-18X1.50 SKHD (SN176-)	2
6-4	3	732-009	PLUG-3/4" PIPE BLACK STEEL	1	6-4	17	283521-001	BUSHING-2 HALVES SWIVEL LOCK	
6-4	4	244484-001	FITT1 1/2MNPTX20MJIC ST. (\$N101-192	2) 2				(\$N176-)	1
U T	,	*94569-001	FITTING-1 1/2MNPTX24M JIC ST (SN193-		6-4	18	3211-043	O-RING #119 (SN176-)	1
6-4	5	251058-001	HOSE-1 1/4X223 20 FSJIC ST3000	,	6-4	19	250117-001	SWIVEL-TD-4-12-16-16 (SN176-)	1
•	_	201000 001	(SN101-193)	1			250117-003	REPAIR KIT-SWIVEL	1
		*239497-001	HOSE-1 1/2X224 24FS JIC ST/ST (SN194	-) 1	6-4	20	284522-001	FITTING-ADAPT 16M OR-20FOR (SN176-)	1
6-4	6	100875-001	FITTING-20M JIC BULKHEAD STR.	,	6-4	21	81214-001	PLUG-16M (SN176-)	1
•	4	100072 00	(SN101-193)	1	6-4	22	235737-001	BOLT-1/2-13X1 1/4 GR 8 ZINC PLT	2
		*244517-001	FITTING-24M JIC BULKHEAD ST (SN194	-) 1	6-4	23	81703-001	FITTING-20M X 20M JIC 45 DEG EL	
6-4	7	250565-001	HOSE-1 1/4 X65 20 FSJIC ST 30	1				(\$N176-)	1
	•	*239495-001	HOSE-1 1/2X65 24FS JIC ST/ST (SN194-)	1	6-4	24	603103001	FITTING-SW NUT RUN T 1 5/8-12 (\$N176-)	1
6-4	8	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	6-4	25	284513-001	HOSE-1 1/4X72 24FS JIC/ST 20FS	
6-4	q	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	6				JIC 3000 (SN176-)	1
6-4	10	235731-001	NUT-1/2-13 GR8 ZINC PLTD	4	6-4	26	*287053-001	VALVE-1 1/2 STEEL BALL 2200 PSI (SN193-)	
6-4	11	244693-001	VALVE-DRILL FLUID SHUT-OFF (SN101-	192) 1				BREAKDOWN FIG. 6-20)	1
6-4	12	250566-001	HOSE-1 1/4X92 20 FSJIC ST3000	,	6-4	27	*278225-001	SUPPORT-BALL VALVE (SN193-)	1
0.4	, _	2000000	(SN101-193)	1	6-4	28	*235713-001	WASHER-3/8 SAE HARD ZINC PLT (ISN193-	·) 1
		*239496-001	HOSE-1 1/2X92 24FS JIC ST/ST (SN194-) 1	6-4	29	250508-001	NUT-3/8-16 GR 8 TOP LOCK Y/ZINC (SN193	r-) 1

D40X40/NAVTEC NAVIGATOR (PAGE 6-5)

PLATFORM ASSEMBLY (SN101-193)

Figure 6-5



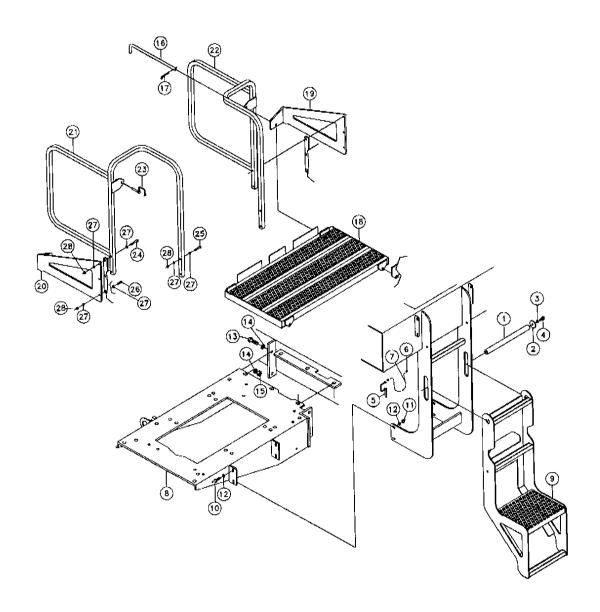
REF.	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
6-5	1	239348-001	LADDER	1	6-5	9	238245-001	BOLT 5/8"-11 X 2 1/4" GR8 HEX	3
6-5	2	275344-001	PLATFORM-WATER PUMP	1			238221-001	NUT-5/8-11 GH8 NC Y/ZINC	3
6-5	3	276529-001	PLATE-PLATFORM SUPPORT	1			235715-001	WASHER-5/8 SAE HARD ZING PLTD	3
6-5	4	239374-001	MOUNT-WATER PUMP	1	6-5	10	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	12
6-5	5	239358-001	MOUNT-PLATFORM	1			485-025	WASHER-1/2 FLAT-HARDENED-ZINC	12
6-5	6	1830-059	NYLON COATED CABLE-3/32-10.00	2			235731-001	NUT-1/2-13 GR8 ZINC PLTD	12
6-5	7	1838-001	CONNECTOR-WIRE (ETC)	4	6-5	11	901062-001	CHAIN LINK 3/16 X 2 THD	1
6-5	8	2109-003	PIN LOCKING - 3/8 X 2 1/4	2					

(PAGE 6-5A) D40X40/NAVTEC NAVIGATOR

PLATFORM ASSEMBLY (SN194-)

Figure 6-5A

Revised August 2000 due to addition of figure to manual.



REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
6-5A	1	277816-001	BAR-STEP PIVOT	1	6-5A	15	235739-001	NUT-3/4-10 GR 8 ZINC PLTD	5
6-5A	2	18150-001	WASHER-2 OD X 13/32 ID 1/4	2	6-5A	16	287068-001	PIN-PLATFORM PIVOT	2
6-5A	3	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	10	6-5A	17	1794-003	HAIR PIN COTTER, 148 WIRE	2
6-5A	4	235727-001	BOLT-3/8-16X1 GR 8 HEX ZINC PLT	2	6-5A	18	287065-001	PLATFORM-ACCESS	1
6-5A	5	2109-003	PIN-LOCKING 3/8X2 1/4	2	6-5A	19	287066-001	PLATE-PLATFORM SUPPORT (FRONT)	1
6-5A	6	1838-001	CONNECTOR-WIRE (ETC)	4	6-5A	20	287067-001	PLATE-PLATFORM SUPPORT (REAR)	1
6-5A	7	1830-059	NYLON-COATED CABLE 3/32-10.00	2	6-5A	21	278103-001	HANDRAIL-LEFT PLATFORM	1
6-5A	8	278249-001	PLATFORM-WATER PUMP	1	6-5A	22	278104-001	HANDRAIL-RIGHT PLATFORM	1
6-5A	9	287038-001	LADDER-TANK	1	6-5A	23	2109-001	PIN38-20 LP 3/8 X 2 1/4	1
6-5A	10	235721-001	BOLT-1/2-13X1 1/2 GR 8 ZINC PLT	4	6-5A	24	250504-001	BOLT-3/8-16X2 1/4 GR 8 HEX Y	4
6-5A	11	235731-001	NUT-1/2-13 GR 8 ZINC PLT	4	6-5A	25	235720-001	BOLT-3/8-16X1 3/4 GR 8 ZINC PLT	4
6-5A	12	485-025	WASHER-1/2 FLAT HARDENED ZINC	8	6-5A	26	235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	2
6-5A	13	243921-001	BOLT-3/4-10 X 2 1/4 GR 8 ZP	5	6-5A	27	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	20
6-5A	14	235717-001	WASHER-3/4 FLAT HARDENED Y/ZINC	10	6-5A	28	235725-001	NUT-3/8-16 GR 8 ZINC PLTD	10



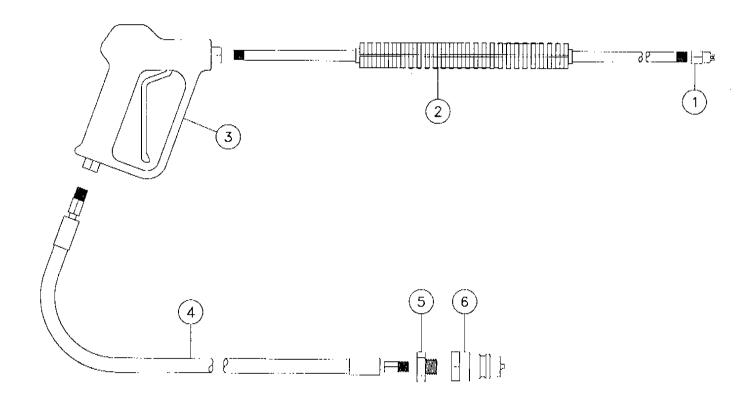
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(PAGE 6-6) D40X40/NAVTEC NAVIGATOR

WAND ASSEMBLY (SN101-193)

Figure 6-6

Revised August 2000 due to update in heading.



REF. NO. PART		PART NO.	DESCRIPTION	QTY.
6-6	1	904576-001	SPRAY NOZZLE	1
6-6	2	904577-001	MOLDED LANCE	1
6-6	3	904578-001	GUN HANDLE	1
6-6	4	282761-001	HOSE-3/8X500 3/8 MS NPT 1/2M NPT	1
6-6	5	730-003	1/2" X 1/4" HEX BUSHING STEEL	t
6-6	6	227236-001	COUPLER-1/2" NPT QUICK(MALE)	1

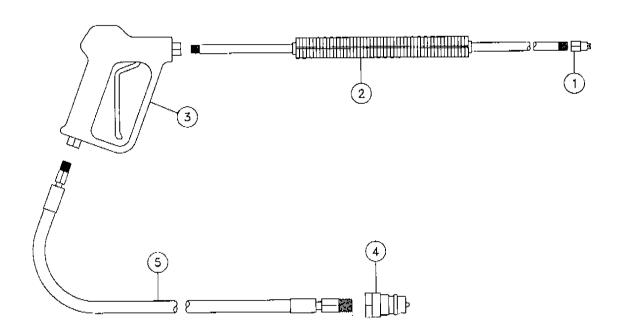
227891-001 WASH WAND ASSY (INC. ALL ITEMS IN FIG. 6-6)

D40X40/NAVTEC NAVIGATOR (PAGE 6-6A)

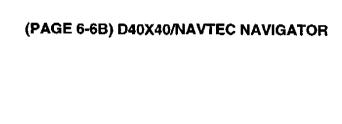
WAND ASSEMBLY (SN194-)

Figure 6-6A

Revised August 2000 due to addition of figure to manual.



REF.	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.
6-6A	1	904576-001	SPRAY NOZZLE	1
6-6A	2	904577-001	MOLDED LANCE	1
6-6A	3	904578-001	GUN HANDLE	1
6-6A	4	227236-001	COUPLER-1/2" NPT QUICK (MALE)	1
6-6A	5	282761-001	HOSE-3/8X500 3/8" MNPT 100R2	1
		240264-001	WAND ASSEMBLY (INC. ALL ITEMS IN	FIGURE)

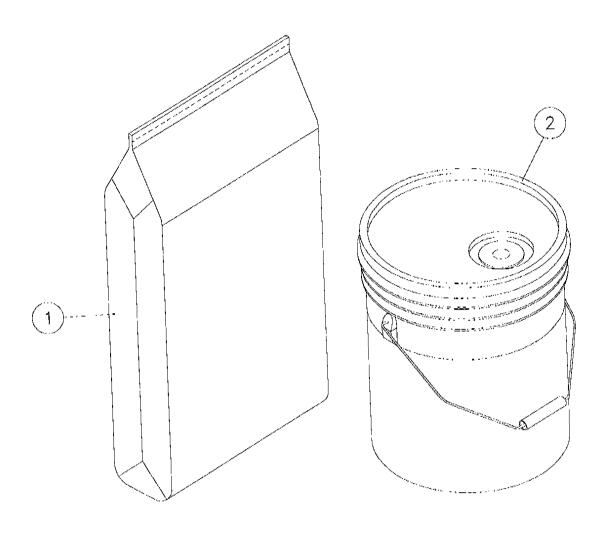


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D40X40/NAVTEC NAVIGATOR (PAGE 6-7)

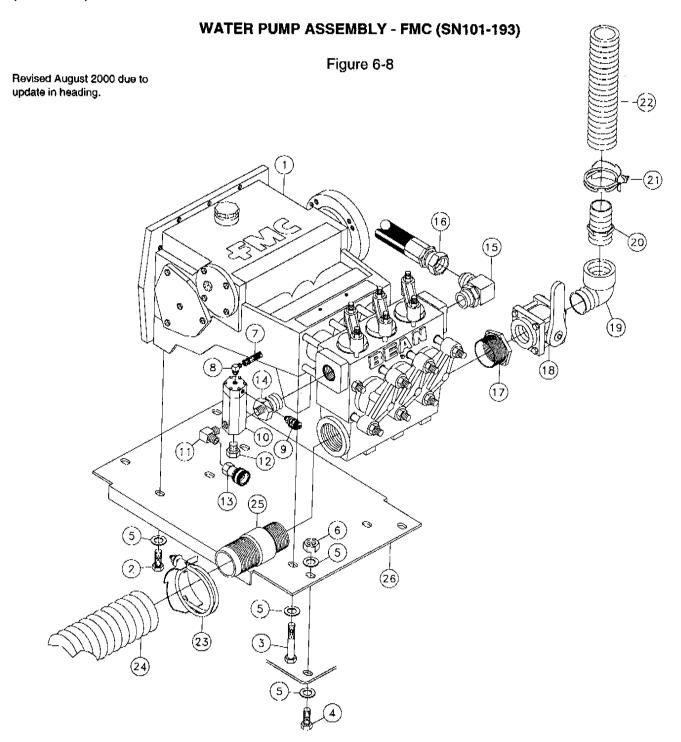
DRILL FLUID

Figure 6-7



REF. NO.		PART NO.	DESCRIPTION	OTY.
6-7	1	904882-001	SOLBS BAG QUICK GELL BENTONITE	1
6.7	2	123596-001 905216-001	BORE-GEL (50 LB BAG) POLYMER	1
U-7	_	123595-001	EZ-MUD - 5 GALLON	1

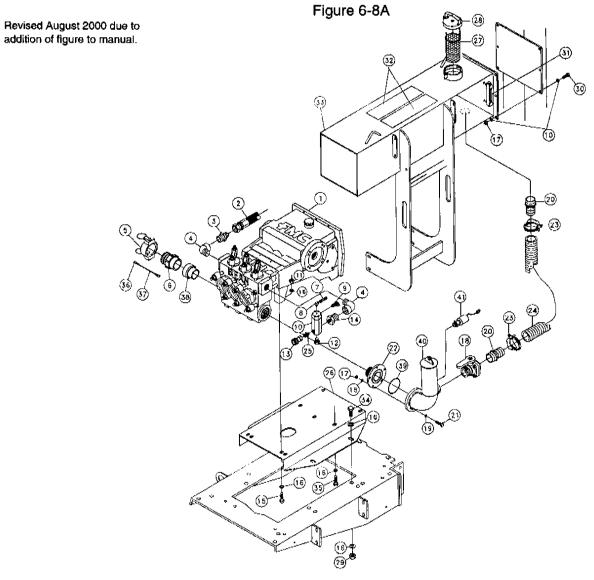
(PAGE 6-8) D40X40/NAVTEC NAVIGATOR



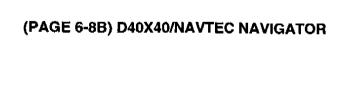
REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
6-8	1	276521-001	PUMP - 75 GPM (BREAKDOWN		6-8	13	227235-001	COUPLER-1/2*NPT QUICK(FEMALE)	1
			FIG. 6-9, 6-10)	1	6-8	14	120886-001	FITTING-PIPE COUPLING NPT	1
6-8	2	235730-001	BOLT-5/8-11X1 1/4 GR8 ZINC PLT	3	6-8	15	65561-001	1 1/4M X 20M JIC 90	1
6-8	3	250542-001	BOLT 5/8*-11 X 4 3/4" GR8 HEX	2	6-8	16	250566-001	HOSE-1 1/4X92 20 FSJIC ST3000	1
6-8	4	238220-001	BOLT-5/8-11X1 3/4 GR8 HEX ZYC	4	6-8	17	276522-001	FITTING -2 1/2 - 2 NPT BSHG	1
6-8	5	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	13	6-8	18	236045-001	VALVE-2"FPTX2"MPT POLY BALL	1
6-8	6	238221-001	NUT-5/8-11 GR8 NC Y/Z	4	6-8	19	214088-001	ELBOW-90 DEG 2" POLY STREET	1
6-8	7	53843-133	HOSE-1/4X230 4FS JIC (100R1)	1	6-8	20	215426-001	HOSE BARB-2X2 MPT (POLY)	1
6-8	8	59423-001	FIT-4M JICX4M ADJ,90 DEG,ELBOW	1	6-8	21	238064-001	CLAMP-2" POWERLOCK HOSE	1
6-8	9	75493-001	COUPLER-MALE TCM20-7/16"UNF-V	1	6-8	22	278115-001	HOSE - 2" HD SUCTION 29"	1
6-8	10	250611-001	WATER PRESSURE MANIFOLD ASS'Y		6-8	23	234491-001	CLAMP-3* POWERLOCK HOSE	i
			(BREAKDOWN FIG. 6-13)	1	6-8	24	278114-001	HOSE-3" X 61"	1
6-8	11	904831-001	FITTING 1/2MNPT X 1/2MNPT 90	1	6-8	25	276519-001	FITTING - 2 1/2" INLET	1
6-8	12	732-009	PLUG-3/4" PIPE BLACK STEEL	1	6-8	26	276517-001	PLATE - FMC WATER PUMP MOUNT	i

D40X40/NAVTEC NAVIGATOR (PAGE 6-8A)

WATER PUMP ASSEMBLY - FMC (SN194-)



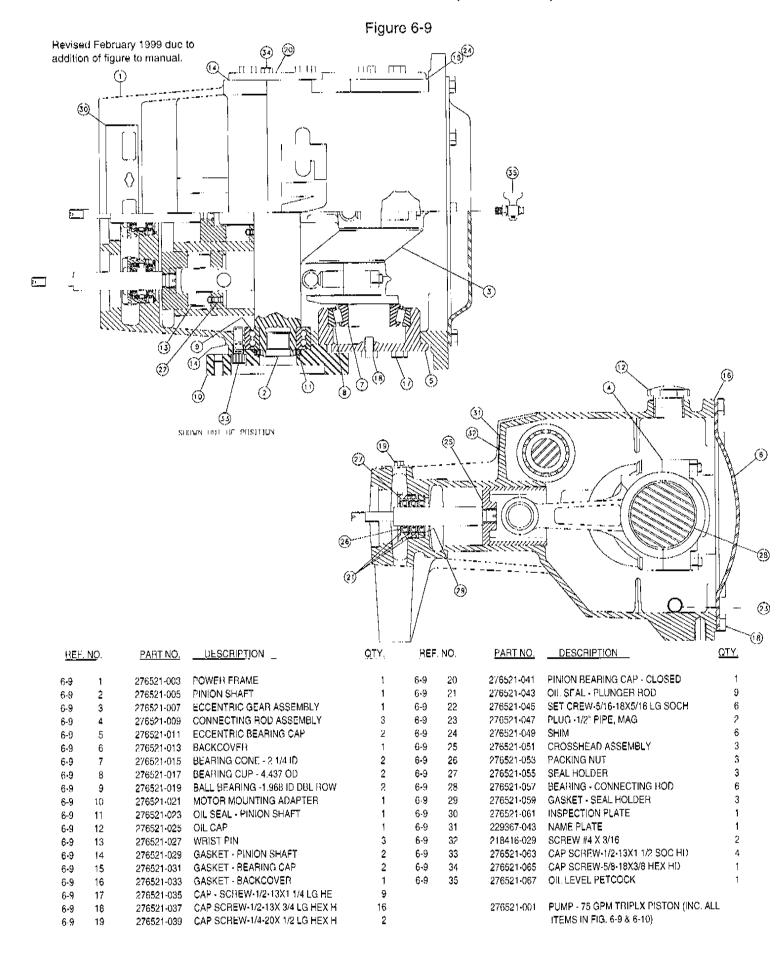
REF.	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	<u>. NO.</u>	<u>Part no.</u>	DESCRIPTION	QTY.
6-8A	1	276521-001	PUMP-75 GPM TRIPLX PISTON		6-8A	20	215426-001	HOSE BARB-2X2 MPT (POLY)	1
			(BREAKDOWN FIG. 6-9, 6-10)	1	6-8A	21	240334-001	BOLT-1/2-13X1 3/4 GR 8 ZINC PLT	5
6-8A	2	239496-001	HOSE-1 1/2X92 24FS JIC ST/ST	1	6-8A	22	287054-001	FLANGE-WATER PUMP 2 1/2* INLET	1
6-8A	3	98671-001	FITTING-1 1/4M NPT X 24M JIC STR.	1	6-8A	23	238064-001	CLAMP-2* POWERLOCK HOSE	2
6-8A	4	287093-001	ELBOW-1.25" 90 DEG BLK ST (1500 PSI)	2	6-8A	24	278116-001	HOSE-2" HD SUCTION 45"	1
6-8A	5	215429-001	CAP-3" CAM LOCK	1	6-8A	25	707-003	1/2" NPT HEX NIPPLE	1
6-8A	6	215427-001	MALE ADAPTER-3" MPT (POLY)	1	6-8A	26	287063-001	PLATE-PUMP SUPPORT	1
6-8A	7	53843-607	HOSE-1/4X258 4FS JIC 3000 PSI	1	6-8A	27	99998-001	STRAINER-6" .030 STEEL	1
6-8A	8	59423-001	FIT-4M JIC X 4M ADJ 90 DEG ELBOW	1	6-8A	28	224985-001	CAP-VENTED FUEL TANK	1
6-8A	9	75493-001	COUPLER-MALE TCM20-7/16" UNF-V	1	6-8A	29	235739-001	NUT-3/4-10 GR 8 ZINC PLTD	4
6-8A	10	250611-001	WATER PRESSURE MANIFOLD ASSY.		6-8A	30	235721-001	BOLT-1/2-13X1 1/2 GR 8 ZINC PLT	6
			(BREAKDOWN FIG. 6-13)	1	6-8A	31	81590-001	GAUGE-SIGHT	1
6-8A	11	250513-001	NUT-5/8 NC GR 8 TOP LOCK Y/ZINC	5	6-8A	32	5776-001	TAPE-SAFETY WALK 4 WIDE	2.5
6-8A	12	732-009	PLUG-3/4" PIPE BLACK STEEI	1	6-8A	33	287003-001	TANK-WP ANTI-FREEZE	1
6-8A	13	227235-001	COUPLER-1/2" NPT QUICK (FEMALE)	1	6-8A	34	243905-001	BOLT-3/4-10 X 1 3/4 Gr 8 HEX ZP	4
6-8A	14	120886-001	FITTING-PIPE COUPLING NPT	1	6-8A	35	235730-001	BOLT-5/8-11X1 1/4 GR 8 ZINC PLT	3
6-8A	15	230728-001	BOLT-5/8-11X1 3/4 GR 8 PLATED	2	6-8A	36	1838-001	CONNECTOR-WIRE (ETC)	2
6-8A	16	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	13	6-8A	37	1830-059	NYLON COATED CABLE-3/32-10.00	1
6-8A	17	75382-001	NUT-1/2-UNC GRADE 8 SLTL	11	6-8A	38	287076-001	FITTING-WATER PUMP INLET	1
6-8A	18	236045-001	VALVE-2" FPTX2" MPT POLY BALL		6-8A	39	228181-001	O-RING-#243 700 BUNA-N	1
			(BREAKDOWN FIG. 6-12)	1	6-8A	40	287072-001	TUBE-SUCTION STABILIZER (FMC)	1
6-8A	19	485-025	WASHER-1/2 FLAT HARDENED ZINC	5	6-8A	41	287069-001	SWITCH-SEALED 10 PSI PRESSURE	1



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D40X40/NAVTEC NAVIGATOR (PAGE 6-9)

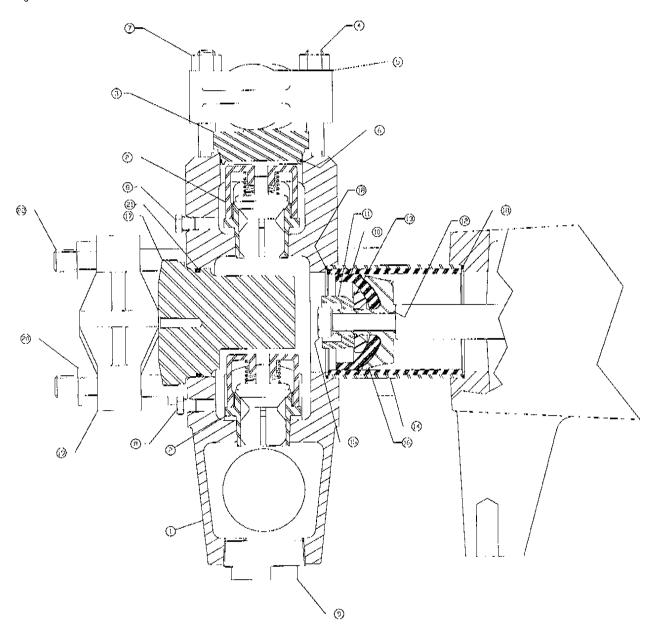
WATER PUMP COMPONENTS (POWER END)



(PAGE 6-10) D40X40/NAVTEC NAVIGATOR

WATER PUMP COMPONENTS (FLUID END)

Figure 6-10

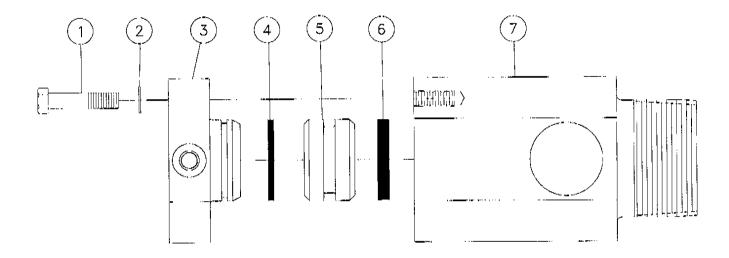


REF	NO.	<u>PART NÓ.</u>	DESCRIPTION	QTY.	REE	<u>. NQ.</u>	PART NO.	DESCRIPTION	OTY.
6-10	1	276521-069	FLUID CYLINDER	1	6-10	15	228460-023	HEX NUT-SPECIAL BRASS	3
6-10	2	276521-071	VALVE ASSEMBLIES	6	6-10	16	276521-093	CUP HOLDER	3
6-10	3	276521-073	VALVE COVER -F / AR VALVES	3	6-10	17	2/6521-095	CYLINDER COVER -F / AR VALVES	3
6-10	4	276521-075	STUD-1/2 13 UNC-ZA X 4" LG	6	6-10	18	276521-097	GASKET - CYLINDER	6
6-10	5	276521-077	VALVE COVER CLAMP	3	6-10	19	276521-099	CYLINDER HEAD CLAMP	3
6-10	6	276521-079	O-RING - 2 3/8 OD X 1/16 NOM	3	6-10	20	276521-101	HEX NUT - 5/8-11	8
6-10	7	276521-081	HEX NUT - 1/2-13	6	6-10	21	276521-103	O-RING -3 1/8" OD X 1/8"	3
6-10	8	276521-083	PLUG - 1/8" PIPE	4	6-10	22	276521-105	STUD-5/8-11 UNC-2A X 12 1/4 LG	6
6-10	9	276521-085	PLUG - 2 PIPE	3					
6-10	10	276521-087	CUP - HSN	3			276521-107	VALVE KIT (INC. THREE EACH OF	
6-10	11	240141-011	PISTON NUT	3				REF. 6 & 21 & SIX OF REF. 2)	
6-10	12	228460-029	O-RING	3			276521-109	PACKING KIT (INC. THREE EACH OF	
6-10	13	276521-089	WASHER	3				REF. 10, 12 & 21 & SIX OF REF. 18)	
6-10	14	276521-091	CYLINDER - 2 3/4" ID	3					

D40X40/NAVTEC NAVIGATOR (PAGE 6-11)

WATER PUMP OUTLET COMPONENTS

Figure 6-11



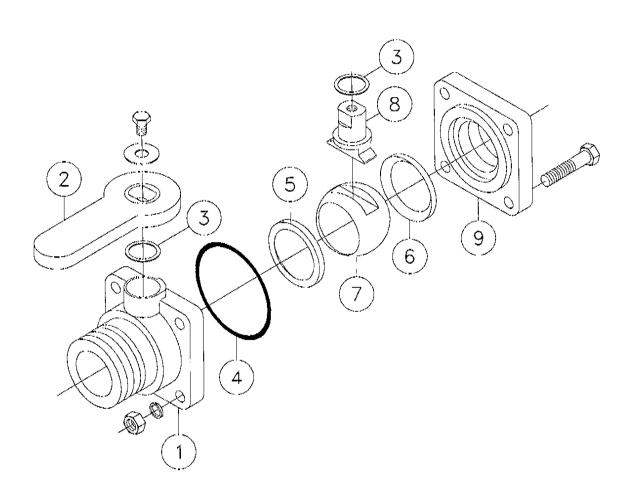
<u>ref</u>	. NO.	PAR <u>T NO.</u>	DESCRIPTION	QTY.
6-11	1	235723-001	BOLT-3/8-16X1 1/2 GR8 ZINC PLT	6
6-11	2	235713 001	WASHER-3/8 SAE HARD ZING PLTD	6
6-11	3	239253-001	ENDCAP-SC65 OUTLET FITTING	1
6-11	4	51163-001	O-RING	1
6-11	5	239252 001	PISTON-SC65 OUTLET FITTING	1
6-11	6	51181-001	O-RING	1
6 11	7	239251-001	FITTING-APLEX SC65 OUTLET	1
		239494-001	WATER PUMP OUTLET ASSY-SC65 (INC. ALL ITEMS IN THIS FIGURE)	

(PAGE 6-12) D40X40/NAVTEC NAVIGATOR

BALL VALVE COMPONENTS - 2" M & F

Figure 6-12

Revised February 1999 due to addition of figure to manual.



REF.	NO.	<u>PA</u> RT <u>NO.</u>	DESCRIPTION	<u>OTY.</u>
6-12	1	236045-003	BODY-2" MNPT	1
6-12 6-12	2 3	236045-005 224942-011	HANDLE-SHORT THRUST WASHER	2
6-12	4	236045-007	GASKET-BODY	1
6-12	5	236045-009	SEAT	1
6-12	6	236045-011	SEAT	1
6-12	7	236045 013	BALL]
6-12	8	236045-015	STEM	1
6-12	9	224942-013	END PLATE	,

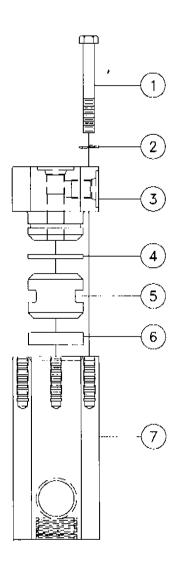
236045-001 VALVE-2"FPTX2"MPT POLY BALL (INC. ALL ITEMS IN THIS FIGURE)

D40X40/NAVTEC NAVIGATOR (PAGE 6-13)

WATER PRESSURE MANIFOLD COMPONENTS

Figure 6-13

Revised February 2000 due to addition of figure to manual.



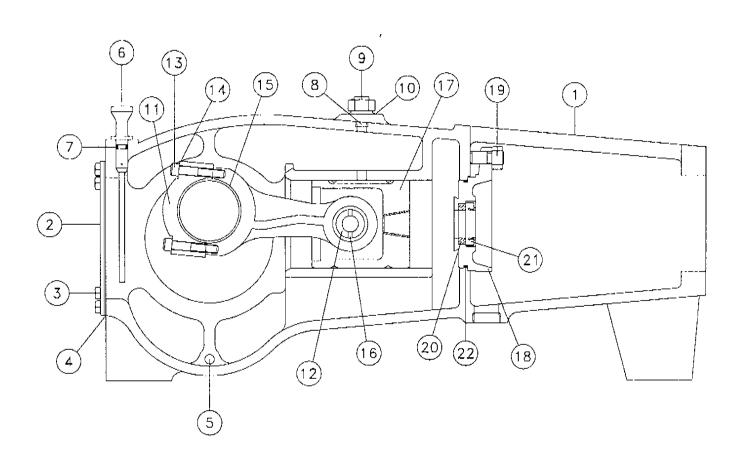
REF.	NO.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
6-13	1	250531-001	BOLT-1/4-20X2 GR 8 HEX Y/ZINC	6
6-13	2	480-003	WASHER-1/4 S/T LOCK	6
6-13	3	238138-001	ENDCAP-MANIFOLD OUTLET FITTING	1
6-13	4	234818-001	O-RING-1,254 OD X 1,114ID-,070	1
6-13	5	238139-001	PISTON INSERT-MANIFOLD	1
6-13	6	250612-001	O-RING	1
6-13	7	238137-001	FITTING-WATER MANIFOLD PRESSURE	1
		250611-001	MANIFOLD ASSEMBLY-WATER PRESSU	RÉ

01 MANIFOLD ASSEMBLY-WATER PRESSURE (INC. ALL ITEMS IN THIS FIGURE)

(PAGE 6-14) D40X40/NAVTEC NAVIGATOR

WATER PUMP COMPONENTS (SC65) - POWER FRAME

Figure 6-14

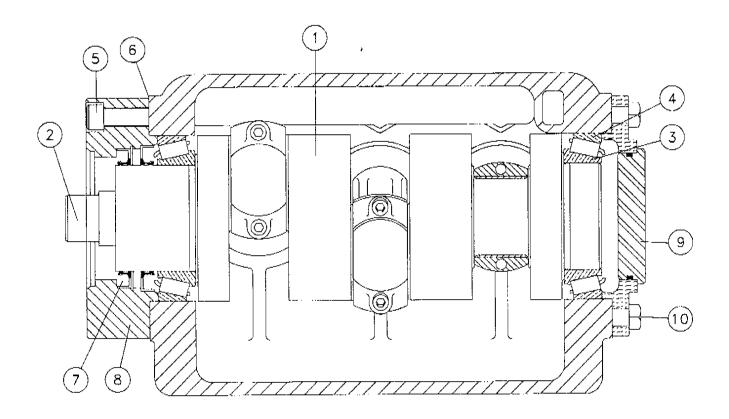


REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
6-14	1	224408-075	POWER FRAME	1	6-14	12	224408-087	WRIST PIN BUSHING	3
6-14	2	224408-077	CRANKCASE COVER	1	6-14	13	4478-024	3/8-16X2 1/2 SOCKET HEAD	6
6-14	3	220741-009	3/8-16X5/8 HHCS	8	6-14	14	480-007	WASHER-3/8 S/T LOCK	6
6-14	4	224408-079	GASKET-CRANKCASE COVER	1	6-14	15	224408-089	CRANK PIN BEARING HALF	6
6-14	5	732-005	3/8" PIPE PLUG BLACK STEEL	2	6-14	16	224408-091	WRIST PIN	3
6-14	6	224408-081	OIL LEVEL DIPSTICK	1	6-14	17	224408-093	CROSSHEAD	3
6-14	7	224408-083	O-RING	1	6-14	18	224408-095	WIPER BOX	3
6-14	8	239383-009	PLUG-1/4 NPT SOCKET HEAD PLUG	3	6-14	19	224408-097	HEX HEAD CAP SCREW 1/2X1 1/2	6
6-14	9	220741-009	BREATHER-CRANKÇAŞE 3/4M NPT	1	6-14	20	224408-099	POLYPAK RING	3
6-14	10	735-001	3/4" COUNTERSUNK PIPE PLUG	1	6-14	21	224408-101	OIL SEAL-WIPER BOX	3
6-14	11	224408-005	CONNECTING ROD ASSEMBLY		6-14	22	224408-103	O-RING-WIPER BOX	3
			(INC. BEF. 11-14)	3					

D40X40/NAVTEC NAVIGATOR (PAGE 6-15)

WATER PUMP COMPONENTS (SC65) - CRANKSHAFT

Figure 6-15

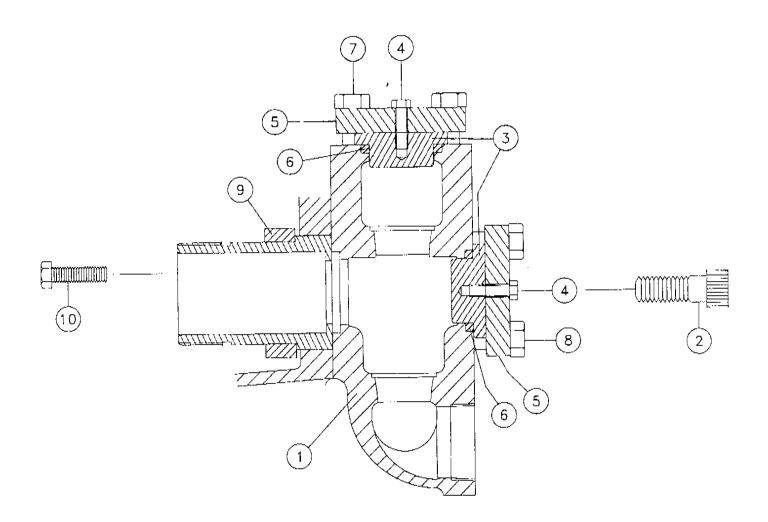


REF.	NO.	PART NO.	DESCRIPTION	QTY.
6-15	1	244460-009	CRANKSHAFT	1
6-15	2	244460-011	SPLINE ADAPTER	1
6-15	3	234309-005	BEARING CONE	2
6-15	4	234309-007	BEARING CUP	2
6-15	5	244460-035	SOCKET HD CAP SCREW 1/2 NC X 3 1/4	6
6-15	6	244460-013	SHIM SET	1
6-15	7	228098-025	OIL SEAL	2
6-15	8	244460-015	BEARING RETAINER & MOTOR ADAPTE	₹ 1
6-15	9	234309-009	BLIND BEARING CUP	1
6-15	10	224408-097	HEX HEAD CAP SCREW 1/2X1 1/2	6

(PAGE 6-16) D40X40/NAVTEC NAVIGATOR

WATER PUMP COMPONENTS (SC65) - FLUID END

Figure 6-16

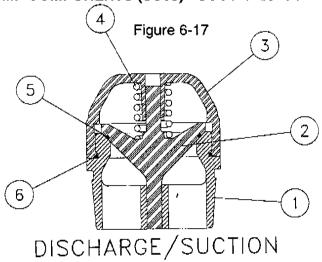


REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
6-16	1	224408-105	FLUID END-DUCTILE IRON	1
6-16	2	224408-107	SOCKET HD CAPSCREW 7/8X2 3/4	2
6-16	3	224408-109	VALVE-COVER & CYL, HEAD PLUG	6
6-16	4	235737-001	BOLT-1/2-13X2 1/4 GR 8 ZINC PLT	6
6-16	5	244460-017	VALVE COVER & CYL. HEAD PLUG	
			RETAINER	2
6-16	6	224408-131	SEAL-STUFFING BOX (RUBBER)	6
6-16	7	238242-001	BOLT-3/4"-10X3" GR 8 HEX Y/Z	8
6-16	8	244460-019	BOLT-3/4"-10X9" GR 5 HEX HD	8
6-16	9	224408-115	RETAINER-STUFFING BOX	1
6-16	10	238245-001	BOLT-5/8"-11X2 1/4 GR 8 HEX	2

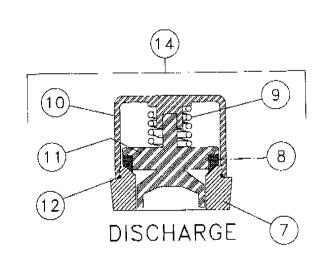
D40X40/NAVTEC NAVIGATOR (PAGE 6-17)

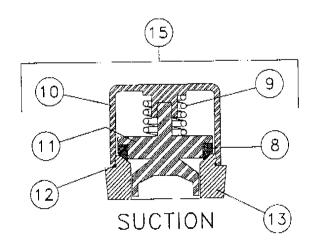
WATER PUMP COMPONENTS (SC65) - SUCTION/DISCHARGE VALVES

Revised February 2000 due to addition of figure to manual.



DUAL STEM GUIDED VALVE (OLD STYLE)





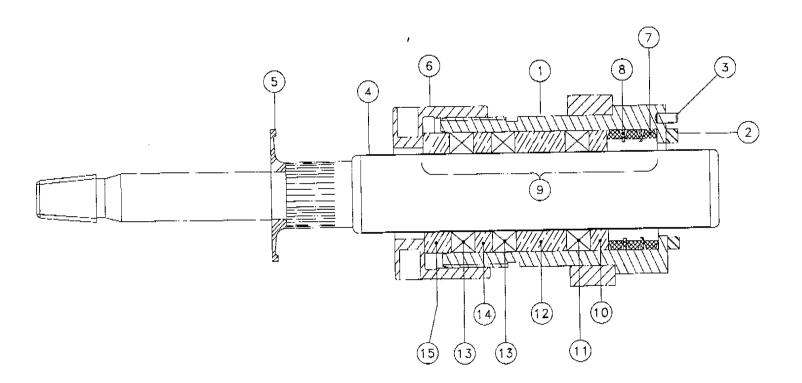
ABRASIVE RESISTANT VALVES

REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF.	NO.	PART NO.	DESCRIPTION	<u>QTY.</u>
6-17	1	224408-117	VALVE SEAT-HARDENED SS	1	6-17	15	244460-005	VALVE ASSYABRASIV	E RESISTANT
6-17	2	224408-119	DOUBLE STEM VALVE	1				(SUCTION) (INC. REF. 8	3-13) 3
6-17	3	224408-123	GUIDE CAGE (SS)	1					
6-17	4	220741-081	VALVE SPRING-1 9/16 FREE LENGTH	1	NOTE:	DUAL S	STEM GUIDED VA	ILVES WERE REPLACED	BY ABRASIVE
6-17	5	224408-121	O-RING (POLY) SIZE 028	1	RESIS	TANT V	ALVES ON WATE	R PUMPS W/ MEYERS/AF	PLEX SÉRIAL
6-17	6	224408-125	O-RING (RUBBER) SIZE 032	1	NO. 06	08 AND	ABOVE.		
6-17	7	244460-021	VALVE SEAT-DISCHARGE	1					
6-17	8	244460-023	POLYURETHANE INSERT	1	NOTE:	DUAL S	STEM GUIDED VA	ALVE ASSEMBLIES ARE II	NTERCHANGEABLE
6-17	9	244460-025	VALVE SPRING	1	W/ ABI	RASIVE	RESISTANT VAL	VE ASSEMBLIES, FOR W.	ATER PUMPS W/
6-17	10	244460-027	GUIDE CAGE	1	SERIA	L NO. 0	607 AND BELOW	: USE ONLY "SUCTION"-	STYLE ABRASIVE
6-17	11	244460-029	VALVE BODY	1	RESIS	TANT V	ALVES AS REPL	ACEMENTS FOR DUAL S	TEM STYLE
6-17	12	244460-031	O-RING	1	VALVE	ES IN BO	OTH THE SUCTIO	N & DISCHARGE SIDES	OF THE PUMP.
6-17	13	244460-033	VALVE SEAT-SUCTION	1					
6-17	14	244460-007	VALVE ASSYABRASIVE RESISTANT						
			(DISCHARGE) (INC. REF. 7-12)	3					

(PAGE 6-18) D40X40/NAVTEC NAVIGATOR

WATER PUMP COMPONENTS (SC65) - PLUNGER ASSEMBLY

Figure 6-18



REF. NO. PART NO.		PART NO.	DESCRIPTION	QTY.
6-18	1	224408-129	STUFFING BOX-PLUNGER	3
6-18	2	224408-131	SEAL-STUFFING BOX (RUBBER)	3
6-18	3	239383-041	ROLL PIN-1/4X5/8	3
6-18	4	224408-135	PLUNGER02 1/4" DIA	3
6-18	5	224408-133	BAFFLE PLATE-RUBBER	3
6-18	6	224408-127	GLAND-PLUNGER	3
6-18	7	224408-159	ELASTOMER SPRING	9
6-18	8	224408-161	SPRING SPACER	
6-18	9	224408-137	PACKING ASSYHI/LO (INC. REF. 10-15)	3
		244460-035	PACKING SET (PACKING ONLY)	
			(INC. REF. 11 & 13)	3
6-18	10	224408-157	SPRING ADAPTER-BRONZE	3
6-18	11	224408-143	STYLE 140 PACKING	3
6-18	12	224408-151	SPACER-BRONZE	3
6-18	13	224408-141	STYLE 141 PACKING	6
6-18	14	224408-155	SPACER-BRONZE	3
6-18	15	224408-153	GLAND RING-BRONZE	3

D40X40/NAVTEC NAVIGATOR (PAGE 6-19)

WATER PUMP COMPONENTS (SC65) - SPECIAL TOOLS

Figure 6-19

Revised February 2000 due to addition of figure to manual.

REF. NO.

3

7

6-19

6-19

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6-19

6-19 6-19

6-19

PART NO.

224726-001 WRENCH-GLAND

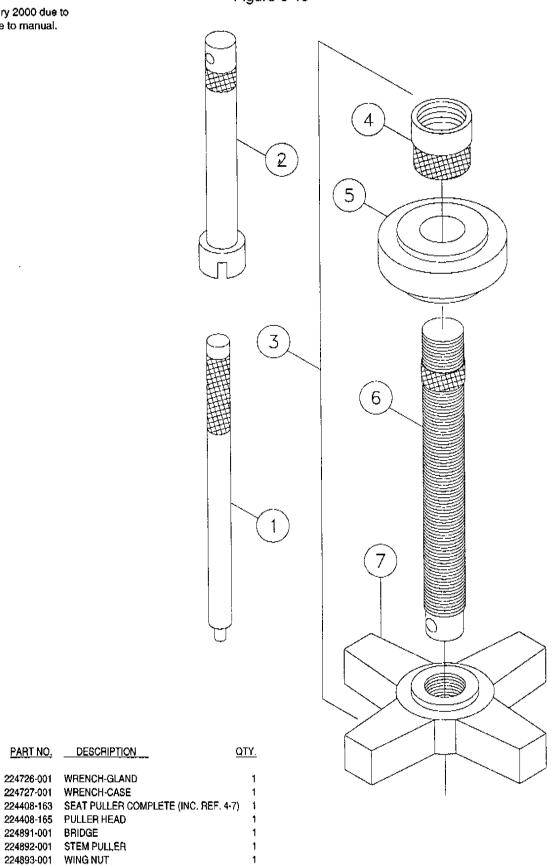
224727-001 WRENCH-CASE

224408-165 PULLER HEAD 224891-001 BRIDGE

224892-001 STEM PULLER

224893-001 WING NUT

DESCRIPTION

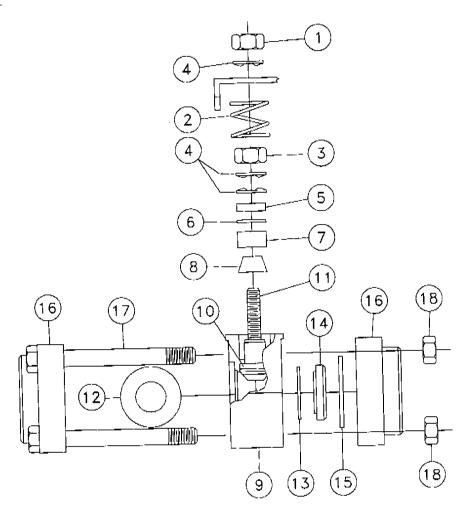


(PAGE 6-20) D40X40 NAVIGATOR

WATER SHUT-OFF VALVE COMPONENTS

Figure 6-20

Revised August 2000 due to addition of figure to manual.



REF.	NO.	PART NO.	DESCRIPTION	QTY.
6-20	1	287053-002	STEM NUT	1
6-20	2	287053-003	GROUNDING SPRING	1
6-20	3	287053-004	NUT-STEM	1
6-20	4	287053-005	STEM SPRING	3
6-20	5	287053-006	GLAND	1
6-20	6	287053-007	PACKING SUPPORT	1
6-20	7	287053-008	TOP PACKING	1
6-20	8	287053-009	BOTTOM PACKING	1
6-20	9	287053-010	BODY CENTER	1
6-20	10	287053-011	BEARING-STEM	2
6-20	11	287053-012	STEM	1
6-20	12	287053-013	BALL	1
6-20	13	287053-014	SUPPORT RING	2
6-20	14	287053-015	SEAT/SEAT SPRING	2
6-20	15	287053-016	O-RING	2
6-20	16	287053-017	FLANGE	2
6-20	17	287053-018	BODY STUD	4
6-20	18	287053-019	BODY NUT	8
		287053-001	VALVE-1 1/2" BALL (2200 PSI) (INC. ALL ITEMS IN FIGURE)	
		287053-020	KIT-MAINTENANCE (INC. REF. 4-8	3, 10&14-15)

HYDRAULIC COMPONENTS LOCATION DIAGRAM - OPEN TOP PIPE VISE

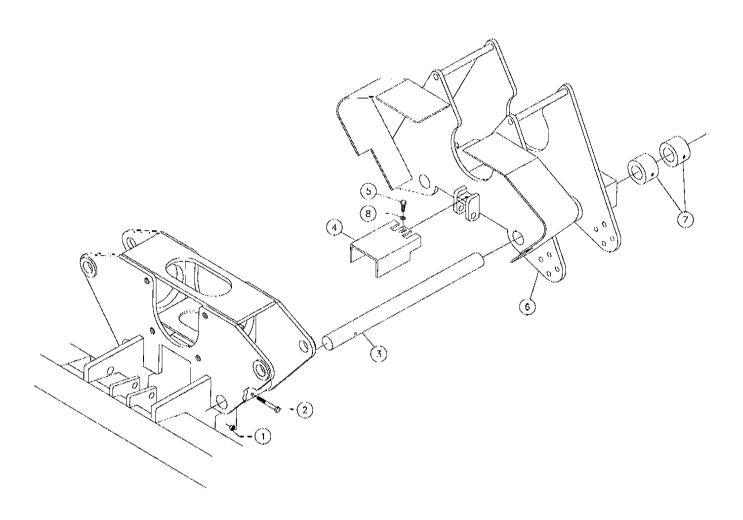
Figure 7-1

Revised July 1999 due to change in hose length. 375 X 23 .375 × 16 FRONT CLAMP CYLINDER FIG 7-4 ROTATION CYLINDER (RIGHT) FIG /-6 ROTATION CYLINDER (LEFT) FIG 7-6 .375 X 23 REAR CLAMP CYLINDER FIG 7-5 25 X 132 .375 X 122 VISE SHIFT CYLINDER FIG 7-7 .375 × 122 .375 × 112 FROM 7-SPOOL CONTROL VALVE .25 X 90 SOLENGID VALVE FIG 7-3 PRESSURE LINE
PRESSURE RETURN LINE
PRESSURE UNC
CONTRACTOR LOAD SENSING UNC
ORRECTION OF OIL FLOW .375 X 50 FROM TO
PROPORTIONAL RUTURN
VALVE MANIFOLD

(PAGE 7-2) D40X40/NAVTEC NAVIGATOR

CARRIAGE ASSEMBLY - REAR VISE

Figure 7-2

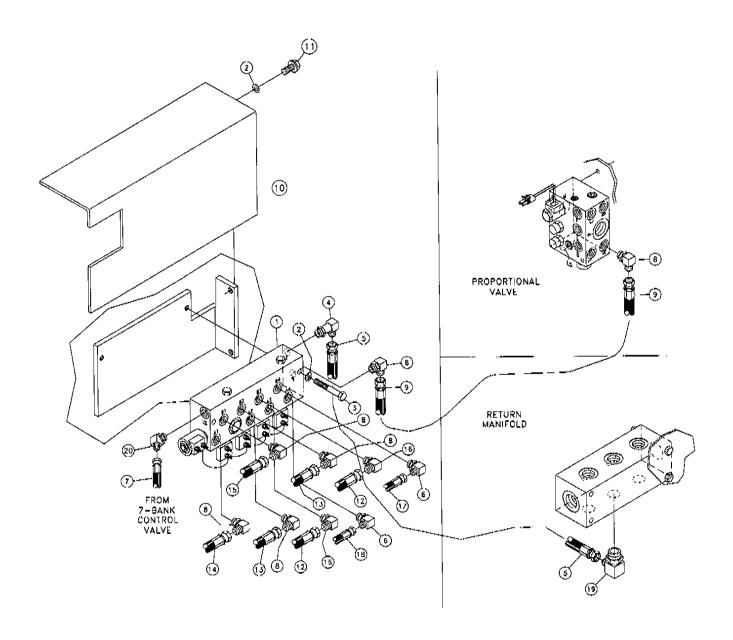


REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	QTY.
7-2	1	240333-001	NUT-5/16-18 GR8 TL ZINC PLTD	2
7-2	2	238212-001	BOLT-5/16-18 X 3" GR8 HEX YZI	2
7-2	3	234299-001	PIN-VISE SLIDE	2
7-2	4	234412-001	SHIELD-CYLINDER	1
7-2	5	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1
7-2	6	249751-001	CARRIAGE-REAR VICE	1
7-2	7	239462-001	SPACER-VISE SLIDE	4
7-2	8	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	1

SOLENOID VALVE ASSEMBLY - PIPE VISE

Figure 7-3

Revised July 1999 due to update in illustration.



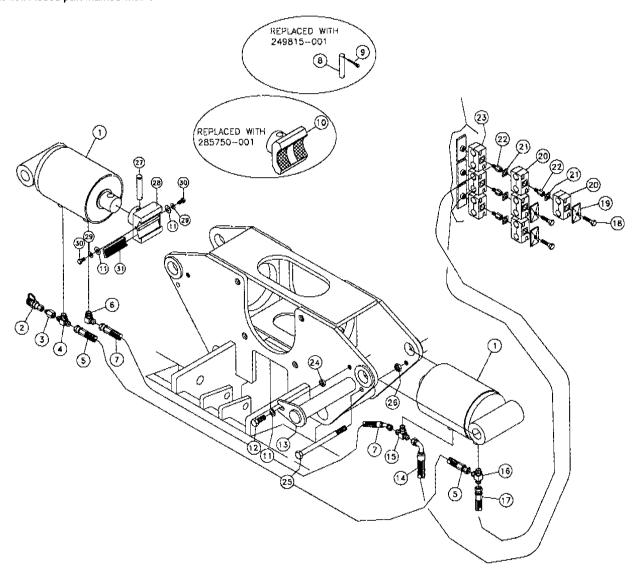
REF	. NO.	PART NÓ.	DESCRIPTION	<u>QTY.</u>	REF	<u>.NO.</u>	PART NO.	DESCRIPTION	QTY.
7-3	1	244462-001	VALVE-4 BANK (BREAKDOWN FIG. 7-9)	1	7-3	11	235726-001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	2
7-3	2	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	7-3	12	57 94 0-167	HOSE-3/8X112 6FS JIC (100R1)	2
7-3	3	250529-001	BOLT 3/8-16X2 1/2"GR.8 HEX	2	7-3	13	57940-485	HOSE-3/8X117 6FS JIC 3500 PSI	2
7-3	4	65570-001	6M X 6M JIC 90 DEGREE LONG	1	7-3	14	57940-547	HQ\$E-3/8X122 6 FS 3000 PSI	1
7-3	5	57940-057	HOSE-3/8X90 6FS JIC (100R1)	1	7-3	15	239314-001	HOSE-3/8X122 6FSJIC 90/ST	1
7-3	6	600118-001	FITTING-6MORINGX4MJIC90PARKER	2	7-3	16	122606-001	FITTING-6MX6M JIC90 DEGW/ RSTS	2
7-3	7	53843-691	HOSE-1/4X90 4FSJIC-4FSJIC 90	1	7-3	17	53843-215	HOSE-1/4X134 4FS JIC 3000 PSI	1
7-3	8	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	5	7-3	18	53843-201	HOSE-1/4X132 4FS JIC 3000 PSI	1
7-3	9	57940-289	HOSE-3/8X50 6FS JIC 3000 PSI	1	7-3	19	59401-001	6M JICX10M ADJ, 90 DEG,ELBOW	1
7-3	10	244599-001	SHIELD-VISE VALVE	1	7-3	20	57950-001	FITTING-6M X 4 JIC 90 DEG.	1

(PAGE 7-4) D40X40/NAVTEC NAVIGATOR

CLAMP CYLINDER ASSEMBLY (FRONT)

Figure 7-4

Revised August 2000 due to update in parts list. Added part marked with *.



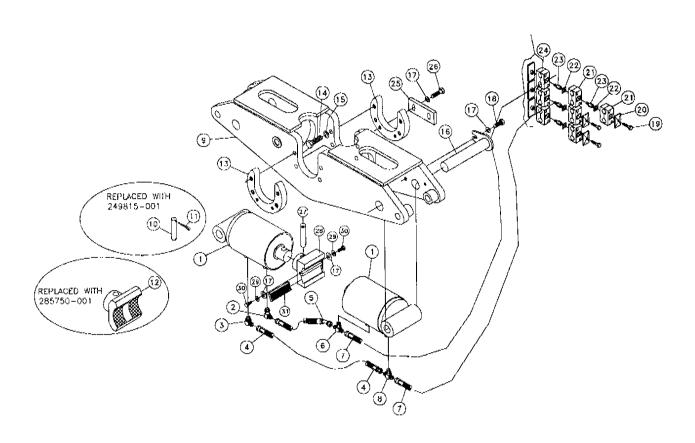
REF	. <u>NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
7-4	1	244286-001	CYLINDER -4X2 (BREAKDOWN FIG. 7-1	11)	7-4	15	122605-001	FITTING-6M JIC BCH TEE W/ RSTS	1
			(SN101-191)	2	7-4	16	68774-001	FITTING-6MX6M JIC (RUN)X6M JIC	1
		*283582-001	CYLINDER-HYD, 4" BORE X 2.25" ROD		7-4	17	57940-547	HOSE-3/8X122 6 FS 3000 PSI	1
			X 2" ST (SN192-) (BRKDWN FIG. 7-12)	2	7-4	18	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	6
7-4	2	83015-001	FITTING-4F JIC DIAGNOSTIC	1	7-4	19	67846-003	PLATE-TWIN COVER	6
7-4	3	59928-001	6F JICX4M JIC ST REDUCER	1	7-4	20	67846-005	CLAMP-TWIN	8
7-4	4	68787-001	FITTING-6M (BCH)X6M JICX6M JIC	1	7-4	21	231758-001	WASHER-SAFETY(1/2" HEX ID)	8
7-4	5	57940-553	HOSE-3/8X23 6FS JIC 3000 PSI	1	7-4	22	231757-001	BOLT-CLAMP STACKING 5/16THREAD	8
7-4	6	251044-001	FITTING-6MX6M JIC90 R.062	1	7-4	23	900035-005	CLAMP-3/8"DOUBLE HOSE	6
7-4	7	251059-001	HOSE-3/8X16 6FS JIC ST/45 3000	1	7-4	24	1081-001	TUBE-1"ODX9/16"ID-7/16	2
7-4	8	216447-001	PIN-JAW (REPLACED W/249815-001)	2	7-4	25	251046-001	BOLT-1/2-13X6 3/4 GR8 HEX ZINC	2
7-4	9	510-021	COTTER PIN-3/16" X 1"	4	7-4	26	235722-001	NUT-1/2-13 GR8 JAM ZINC PLTD	2
7-4	10	240754-001	JAW-2 5/8 OD CURVED (REPLACED		7-4	27	249815-001	PIN-11/16X2.61 LOCK BALL	2
			W/285750-001)	2	7-4	28	278220-001	HOLDER-1 3/4 RAM, GRIP 2 5/8 UPSET	2
7-4	11	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	6	7-4	29	235713-001	WASHER-3/8 SAE HARD ZINC PLATED	4
7-4	12	235721-001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	7-4	30	235726-001	BOLT-3/8-16X3/4 GR 8 HEX ZINC PLTD	4
7-4	13	244496-001	PIN-FRONT VISE CYLINDER	2	7-4	31	278223-001	GRIP-VISE (2 5/8 UPSET)	8
7-4	14	239314-001	HOSE-3/8X122 6FSJIC 90/ST	1					

D40X40/NAVTEC NAVIGATOR (PAGE 7-5)

CLAMP CYLINDER ASSEMBLY (REAR)

Figure 7-5

Revised August 2000 due to update in illustration & parts list. Added part marked with *.



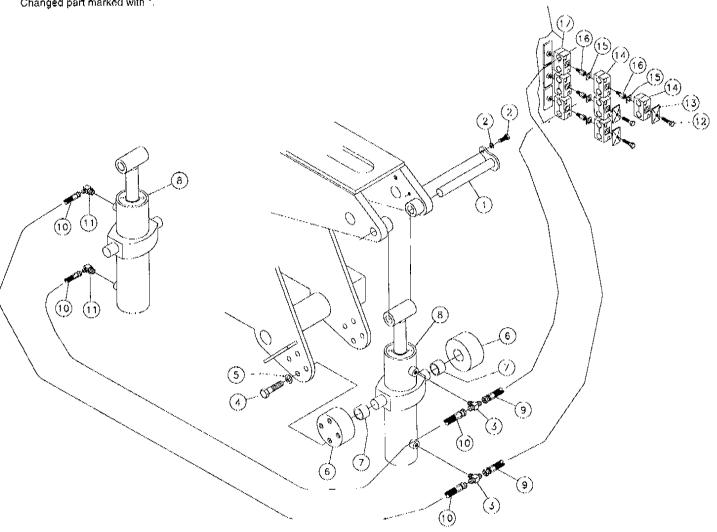
REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF.	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
7-5	1	244286-001	CYLINDER -4X2 (BREAKDOWN FIG. 7-1	1)	7-5	15	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	8
. •		211200 001	(SN101-191)	´ 2	7-5	16	244498-001	PIN-REAR VISE CYLINDER	2
		*283582-001	CYLINDER-HYD, 4" BORE X 2.25" ROD		7-5	17	485-025	WASHER-1/2 FLAT-HARDENED-ZING	8
			X 2" ST. (SN19-2) (BRKDWN FIG. 7-12)	2	7-5	18	235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	2
7-5	2	251044-001	FITTING-6M X 6M JIC 90 R.062	1	7-5	19	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	6
7-5	3	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	1	7-5	20	67846-003	PLATE-TWIN COVER	6
7-5	4	57940-553	HOSE-3/8X23 6FS JIC 3000 PSI	1	7-5	21	67846-005	CLAMP-TWIN	8
7-5	5	251059-001	HOSE-3/8X16 6FSJIC ST/45 3000	1	7-5	22	231758-001	WASHER-SAFETY(1/2" HEX ID)	8
7-5	6	122605-001	FITTING-6M JIC BCH TEE W/ RSTS	1	7-5	23	231757-001	BOLT-CLAMP STACKING 5/16THREAD	8
7-5	7	57940-485	HQSE-3/8X117 6FS JIC 3500 PSI	2	7-5	24	900035-005	CLAMP-3/8*DOUBLE HOSE	6
7-5	8	68787-001	FITTING-6M (BCH)X6M JICX6M JIC	1	7-5	25	276525-001	PLATE-WEAR	1
7-5	9	249752-001	CRADLE-VISE	1	7-5	26	240334-001	BOLT-1/2"-13X1 3/4" GR 8 HEX Y/ZINC	2
7-5	10	216447-001	PIN-JAW (REPLACED WITH 249815-001) 2	7-5	27	249815-001	PIN-11/16X2.61 LOCK BALL	2
7-5	11	510-021	COTTER PIN-3/16" X 1"	4	7-5	28	278220-001	HOLDER-1 3/4 RAM, GRIP 2 5/8 UPSET	2
7-5	12	240754-001	JAW-2 5/8 OD CURVED (REPLACED		7-5	29	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4
			W/285750-001)	2	7-5	30	235726-001	BOLT-3/8-16X3/4 GR 8 HEX ZINC PLTD	4
7-5	13	276524-001	PLATE-VISE INSERT	2	7-5	31	278223-001	GRIP VISE (2 5/8 UPSET)	8
7-5	14	238245-001	BOLT 5/8"-11 X 2 1/4" GR8 HEX	8					

(PAGE 7-6) D40X40/NAVTEC NAVIGATOR

ROTATION CARRIAGE CYLINDER ASSEMBLY

Figure 7-6

Revised February 1999 due to addition of breakdown to manual. Changed part marked with *.



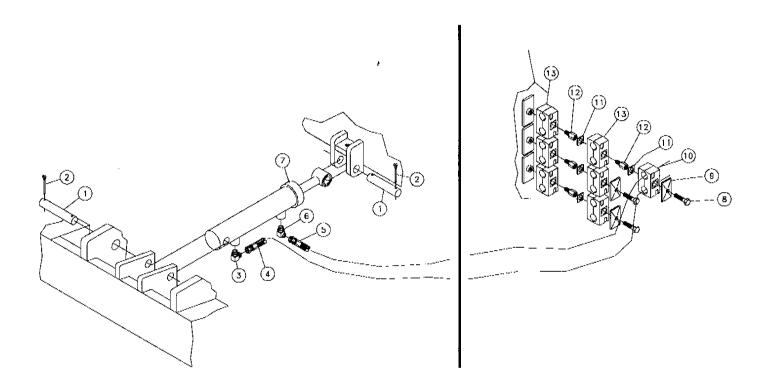
<u>REF</u>	<u>. NQ.</u>	<u>PART NÓ.</u>	<u>DESCRIPTION</u>	<u>Q17.</u>
7-6	1	251000-001	PIN VISE ROTATE CYLINDER	2
7-6	2	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	2
7-6	3	68787-001	FITTING-6M (BCH)X6M JICX6M JIC	2
7-6	4	235730-001	BOLT-5/8-11X1 1/4 GR8 ZINC PLT	16
7-6	5	235715-001	WASHER-5/8 SAE HARD ZINC PLTD	16
7-6	6	251005-001	MOUN'I TRUNION	4
7-6	7	70070-003	BEARING-COMPOSITE 1 LONG	4
7-6	8	1239275-001	CYLINDER-2 1/2 X 5 TRN MNT	
			(BREAKDOWN FIG. 7-10)	2
7-6	9	57940-167	HOSE-3/8X112 6F\$ JIC (100R1)	2
7-6	10	57940-589	HOSE-3/8X45 6FS JIC 3000PSI	2
7-6	11	59426-001	FITTING-6M JICX6M ADJ 90 ELBOW	2
7-6	12	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	6
7.6	13	67846-003	PLATE-TWIN COVER	6
7-6	14	67846-005	CLAMP-TWIN	8
7-6	15	231758-001	WASHER-SAFETY(1/2" HEX ID)	8
7-6	16	231757-001	BOLT-CLAMP STACKING 5/16THREAD	8
7-6	17	900035-005	CLAMP-3/8"DOUBLE HOSE	6

D40X40/NAVTEC NAVIGATOR (PAGE 7-7)

VISE SLIDE CYLINDER ASSEMBLY

Figure 7-7

Revised February 2000 due to addition of breakdown to manual. Updated part marked with *.



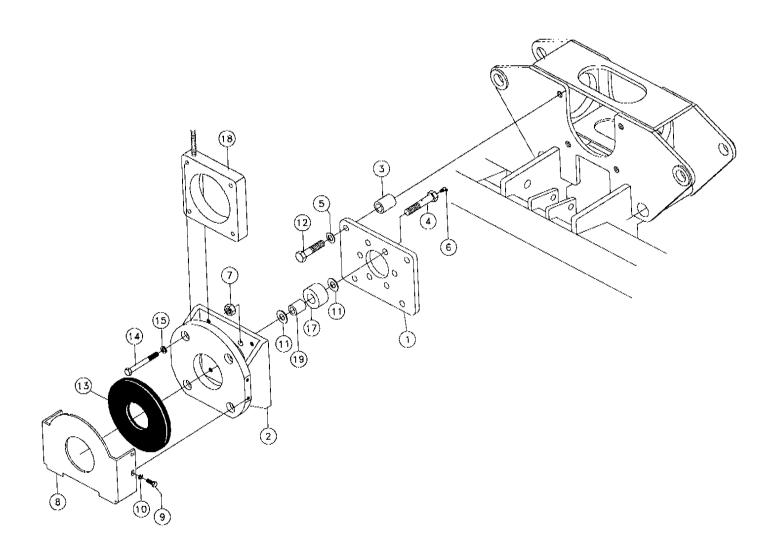
REF	. NO.	PART NO.	DESCRIPTION	QTY.
7-7	1	239313-001	PIN-CYLINDER	2
7-7	2	510-017	COTTER PIN-5/32" X 1 1/2"	4
7-7	3	68821-001	FIT-4M JICX4M ADJ.90 W/ RESTRICTOR	1
7-7	4	53843-201	HOSE-1/4X132 4FS JIC 3000 PSI	1
7-7	5	53843-215	HOSE-1/4X134 4FS JIC 3000 PSI	1
7-7	6	58295-001	FITTING-4M OR X 4M JIC 45 DEG.	1
7-7	7	*223998-001	CYLINDER- 1 1/2 X 6 (BREAKDOWN	
			FIG. 7-12)	1
7-7	8	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	6
7-7	9	67846-003	PLATE-TWIN COVER	6
7-7	10	67846-005	CLAMP-TWIN	8
7-7	11	231758-001	WASHER-SAFETY(1/2" HEX ID)	8
7-7	12	231757-001	BOLT-CLAMP STACKING 5/16THREAD	8
7-7	13	900035-005	CLAMP-3/8*DOUBLE HOSE	6

(PAGE 7-8) D40X40/NAVTEC NAVIGATOR

ZAP ALERT ASSEMBLY

Figure 7-8

Revised August 2000 due to update in parts list. Changed part marked with *.

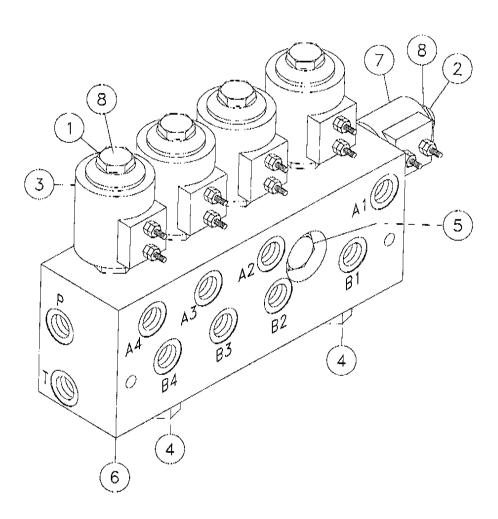


REF.	NO.	PART NO.	DESCRIPTION	QTY.	REF	. NO.	PART NO.	DESCRIPTION	QTY.
7-8	1	244394-001	MOUNT-WIPER HOLDER	1	7-8	11	485-017	WASHER-3/4 FLAT	4
7-8	2	249795-001	HOLDER-ROD WIPER	1	7-8	12	250610-001	BOLT-3/4-10X3 1/2 GR8 HX Y/ZNC	4
7-8	3	*280536-001	TUBE-LINKAGE-SHAFT CLAMP		7-8	13	235924-001	WIPER-2 3/8 OD ROD	1
			(REPLACES 1906-005)	4	7-8	14	250568-001	BOLT-1/2-13 X4 1/2 GR8 HEX Y/Z	4
7-8	4	234426-003	BOLT ASSEMBLY-ROLLER MOUNT		7-8	15	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	4
			(INC, REF. 6)	6	7-8	16	485-017	WASHER-3/4 FLAT	12
7-8	5	235717-001	WASHER-3/4 SAE HARD ZINC PLTD	4	7-8	17	244679-001	ROLLER-GUIDE	6
7-8	6	597-001	ZERK-1/4" NF 90 DEG GREASE	6	7-8	18	224922-001	COIL-CURRENT(W/17'COAX CABLE)	
7-8	7	250510-001	NUT 3/4 NC GR8 SLTL Y/ZINC	6				(SN101-175)	1
7-8	8	234462-001	STOP-WIPER	1			276856-001	COIL-CURRENT W/ 17' COAX CABLE	
7-8	9	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	4				(SN176-)	1
7-8	10	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	7-8	19	244678-001	BUSHING GUIDE ROLLER	6

SOLENOID VALVE COMPONENTS

Figure 7-9

Revised February 1999 due to addition of figure to manual.



REF.	<u>N</u> O.	PART NO.	DESCRIPTION	QTY.
7 -9	1	228128-003	CARTRIDGE SOLENOID	
			(INC. SEAL KT & NUT REF. 8)	3
		206271-007	REPAIR KIT	3
7.9	2	228128-005	CARTRIDGE-SOLENOID	
			(INC, SEAL KIT& NUT REF. 8)	1
		228128-009	SEAL KIT	1
7-9	3	206271-005	COIL-12V DUAL POST	3
7-9	4	228128-013	SENSE CHECK	2
		228128-015	SEAL KIT	2
7-9	5	228128-017	CHECK VALVE	1
		228128-009	SEAL KIT	1
7.9	6	NSS	BODY-VALVE	1
7-9	7	228128-007	COIL	1
7-9	8	224886-007	NUT	4
		244462-001	VALVE-4 BANK (INC. ALL ITEMS IN THIS	

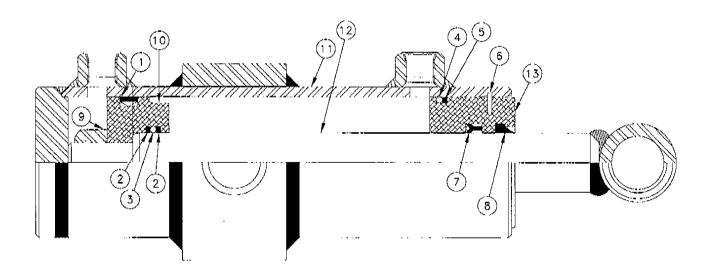
FIGURE)

NSS NOT SOLD SEPARATELY

(PAGE 7-10) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 2 1/2" X 5"

Figure 7-10

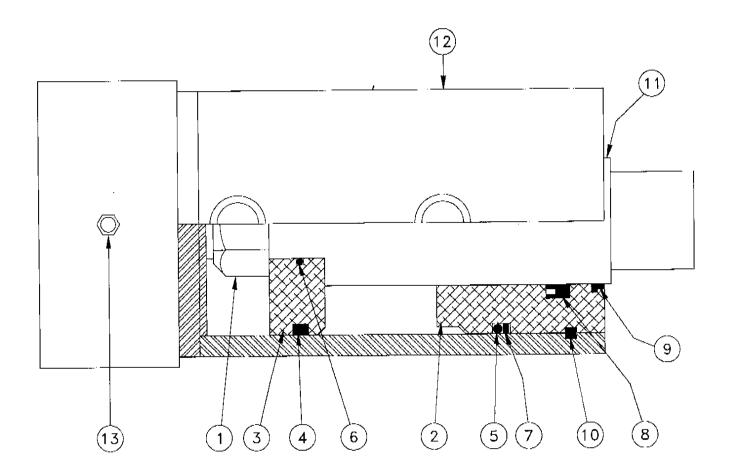


REF	<u>NO.</u>	<u>PART NO.</u>	DESCRIPTION	QTY.
7.40		000700 001	UNI-RING	
7-10	1	200769 001	• 1 1	
7-10	2	222440-007	BACK-UP RING	2
7.10	3	221256-013	O-RING	1
7-10	4	221766-017	Ó-RING	1
7-10	5	200841-001	BACKUP WASHER	1
7-10	6	222440-009	INTERNAL SNAP RING	1
7-10	7	205002-001	1 1/8"LOADED U-CUP	1
7-10	8	221256-015	ROD WIPER	1
7-10	9	95631-011	LOCK NUT	1
7-10	10	104628-009	PISTON	1
7-10	11	222440-003	BARREL ASSY	1
7-10	12	239275-003	ROD ASSEMBLY	1
7-10	13	200777-001	GLAND	1
		239275-001	CYLINDER-2 1/2 X 5 TRN MNT (INC. RE	EF. 1-13)
		222440-011	SEAL KIT	

D40X40/NAVTEC NAVIGATOR (PAGE 7-11)

HYDRAULIC CYLINDER COMPONENTS - 4" X 2"

Figure 7-11

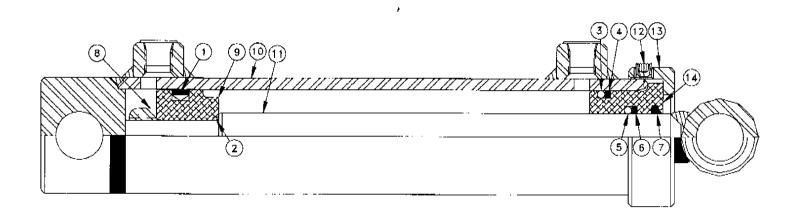


REF	REF. NO. PART NO.		DESCRIPTION	<u>QTY.</u>
7-11	1	244286-003	NUT	1
7-11	2	244286-005	HEAD	1
7-11	3	244286-007	PISTON	1
7-11	4	244286-009	PSP-SEAL	1
7-11	5	244286-01	O-RING	1
7-11	6	244286-013	O-RING	1
7-11	7	244286-015	BACKUP	1
7-11	8	244286-017	ROD SEAL	1
7-11	9	244286-019	DUST SEAL	1
7-11	10	244286-021	RETAINING RING	1
7-11	11	244286-023	SHAFT-CYLINDER	1
7-11	12	244286-025	BARREL-CYLINDER	1
7-11	13	598-001	ZERK-1/4-28 NF ST GREASE	1
		244286-001	CYLINDER-HYD 4" X 2" (INC. ALL ITEMS IN THIS FIGURE)	
		244286-027	SEAL KIT (INC. REF. 4-9)	

(PAGE 7-12) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 1 1/2" X 6"

Figure 7-12



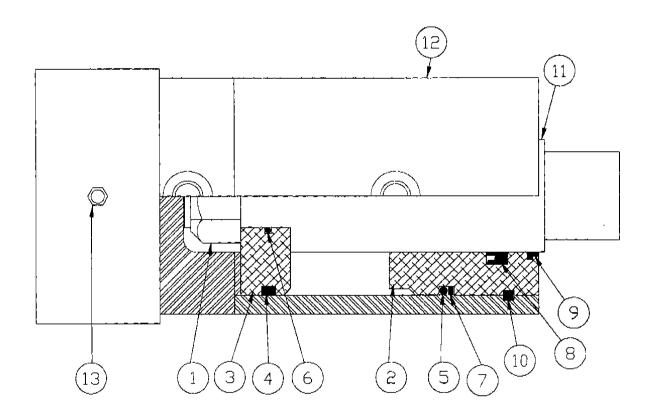
REF	. NO.	PART NO.	DESCRIPTION	QTY.
7-12	1	202721-001	UNI-RING	1
7-12	2	223998-003	O-RING	1
7-12	3	202727-001	O-RING	1
7-12	4	202726-001	WASHER-BACK-UP	1
7-12	5	223998-005	O-RING	1
7-12	6	223998-007	BACK-UP RING	1
7-12	7	202724-001	WIPER-ROD	1
7-12	8	202722-001	LOCKNUT	1
7-12	9	202720-001	PISTON	1
7-12	10	223998-009	BARREL ASSEMBLY	1
7-12	11	223998-011	ROD ASSEMBLY	1
7-12	12	223998-013	SET SCREW	1
7-12	13	223998-015	THREAD CAP	1
7-12	14	223998-017	THREAD CAP HEAD	1
		223998-019	SEAL KIT (INC. REF. 1-7)	
		223998-001	CYLINDER- 1 1/2 X 6 (INC, REF, 1-14)	

D40X40/NAVTEC NAVIGATOR (PAGE 7-13)

HYDRAULIC CYLINDER COMPONENTS - 4" X 2.25" X 2

Figure 7-13

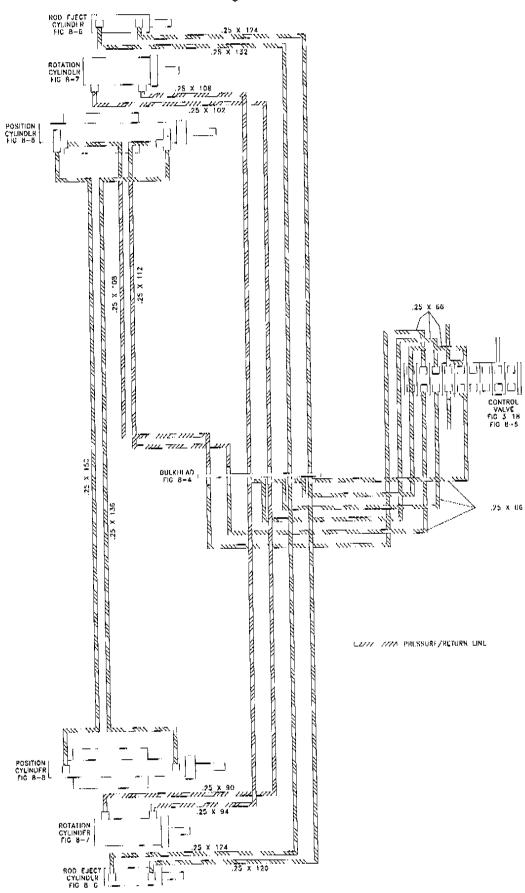
Revised August 2000 due to addition of figure to manual.



<u>REF</u>	. NO.	PART NO.	DESCRIPTION	QTY.
7-13	1	244286-003	NUT	1
7-13	2	244286-005	HEAD	1
7-13	3	244286-007	PISTON	1
7-13	4	244286-009	PSP-SEAL	1
7-13	5	244286-011	O-RING	1
7-13	6	244286-013	O-RING	1
7-13	7	244286-015	BACKUP	1
7-13	8	244286-017	ROD SEAL	1
7-13	9	244286-019	DUST SEAL	1
7-13	10	244286-021	RETAINING RING	1
7-13	11	244286-023	SHAFT-CYLINDER	1
7-13	12	244286-025	BARREL-CYLINDER	1
7-13	13	598-001	ZERK-1/4-28 NF ST GREASE	1
		283582-001	CYLINDER-4" BORE X 2.25" ROD X 2" S" (INC. ALL ITEMS IN THIS FIGURE)	r
		244286-027	SEAL KIT (INC. REF. 4-9)	

HYDRAULIC COMPONENTS LOCATION DIAGRAM - ROD LOADER

Figure 8-1

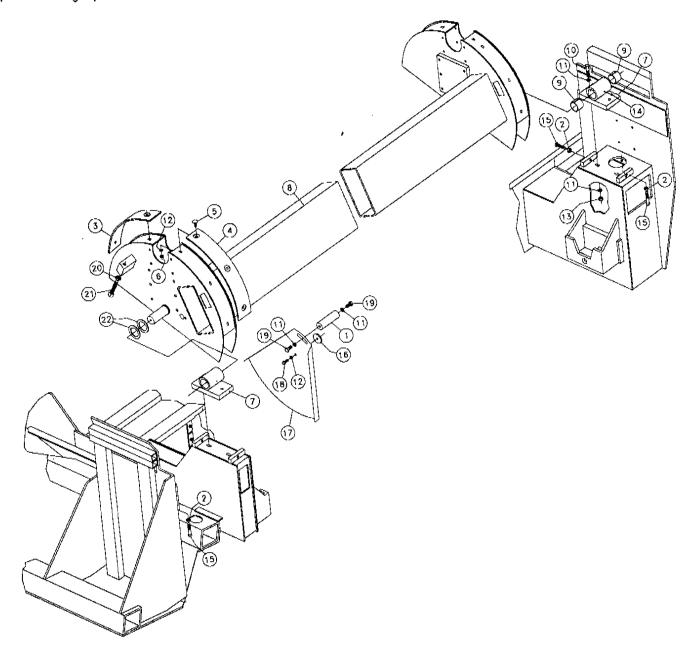


(PAGE 8-2) D40X40/NAVTEC NAVIGATOR

ROD LOADER FRAME ASSEMBLY

Figure 8-2

Revised February 2000 due to update in parts list. Changed part marked with *.

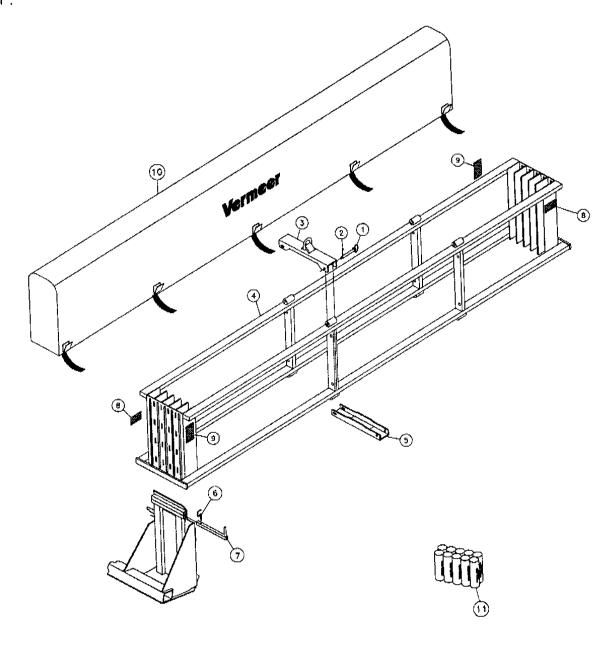


REF	<u>NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.
8-2	1	234252-001	SPACER-LOADER INDICATOR	1	8-2	12	*235713-001	WASHER-3/8 SAE HARD ZINC PLTD	13
8-2	2	235722-001	NUT-1/2-13 GR8 JAM ZINC PLTD	6	8-2	13	235731-001	NUT-1/2-13 GR8 ZINC PLTD	4
8-2	3	227901-001	WEAR BAR - ROD LOADER	2	8-2	14	598-001	ZERK-1/4" NF ST GREASE	2
8-2	4	227900-001	WEAR BAR-ROD LOADER	2	8-2	15	601698-024	SQ HSS 1/2-13X2 1/2 ZNC PLT	6
8-2	5	601699-012	3/8-16X1 1/4 ELEVATOR BOLT ZNC	10	8-2	16	18150-001	SLUG-2 DIA1/4"	1
8-2	6	235725-001	NUT-3/8-16 GR8 ZINC PLTD	10	8-2	17	227995-001	INDICATOR-ROD LOADER	1
8-2	7	227845-001	LOADER PIVOT ASSY (INC. TWO OF		8-2	18	235727-001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1
			REF. 9 & ONE OF REF. 14)	2	8-2	19	235729-001	BOLT-1/2-13X1 GR8 HEX ZINC PLT	2
8-2	8	227899-001	LOADER-ROD	1	8-2	20	250514-001	NUT-5/8-NC JAM Y/ZINC	2
8-2	9	1835-033	BSHG,-STL,-2 X 1 3/4 X 1 1/2	4	8-2	21	601697-030	SQ HSS-5/8-11X3 ZINC PLT	2
8-2	10	250573-001	BOLT-1/2-13 X 2 1/2 GR8 HX Y/Z	4	8-2	22	505909-001	WASHER-2 1/2" X 1 3/4" X 14 GA MB	2
8-2	11	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	10					

ROD BOX ASSEMBLY

Figure 8-3

Revised August 2000 due to update in illustration & parts list. Added parts marked with *.

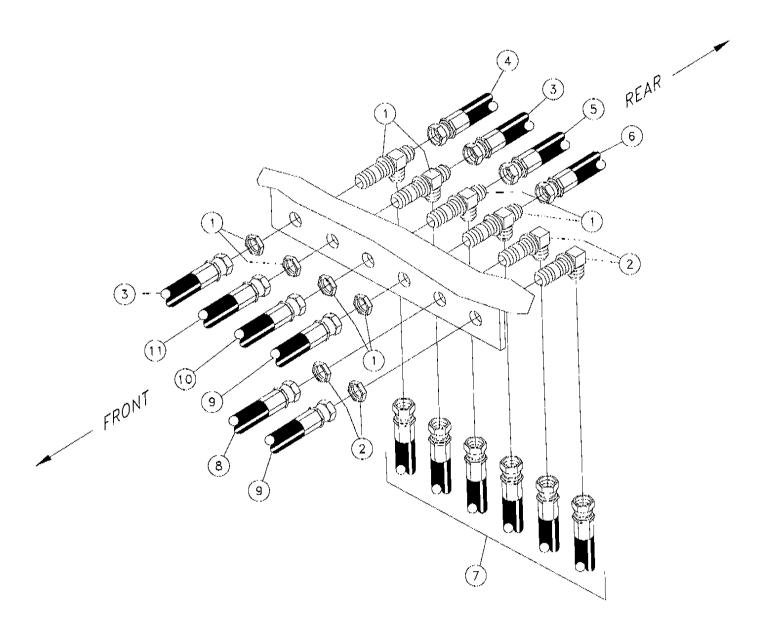


REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QTY.	REF	<u>. NO.</u>	PART NO.	DESCRIPTION	QŢY.
8-3	1	2107-007	PIN-HITCH 3/4 X 6	8	8-3	7	227906-001	PIN ROD BOX	2
8-3	2	1794-003	HAIR PIN COTTER148 WIRE	8	8-3	8	70000-563	DECAL-WARNING (UND)	2
8-3	3	227885-001	2 7/8° ROD BOX TOP	2			70001-563	DECAL-WARNING (UND)	2
8-3	4	244380-003	BOX ASSY750' (2 3/8" ROD) ROD		8-3	9	700IA-392	DECAL - DANGER	2
			(INC, TWO OF REF. 8 & 9)	1			7000A-392	DECAL - DANGER	2
		244380-005	BOX ASSY,-750' (2 3/8" ROD) ROD		8-3	10	280651-001	COVER-D40 TALL ROD BOX	1
			(INT) (INC. TWO OF REF. 8 & 9)	1	8-3	11	*275927-982	THREAD CMPND-PLUSCO 195-10 PACK	1
8-3	5	224479-001	PLATE-ROD BOX BOTTOM	2			*275928-982	THREAD CMPND-PLUSCO 135-4/10 PACK	(1
8-3	6	2108-001	LYNCH PIN - 1/4 X 2	2					

(PAGE 8-4) D40X40/NAVTEC NAVIGATOR

BULKHEAD ASSEMBLY

Figure 8-4

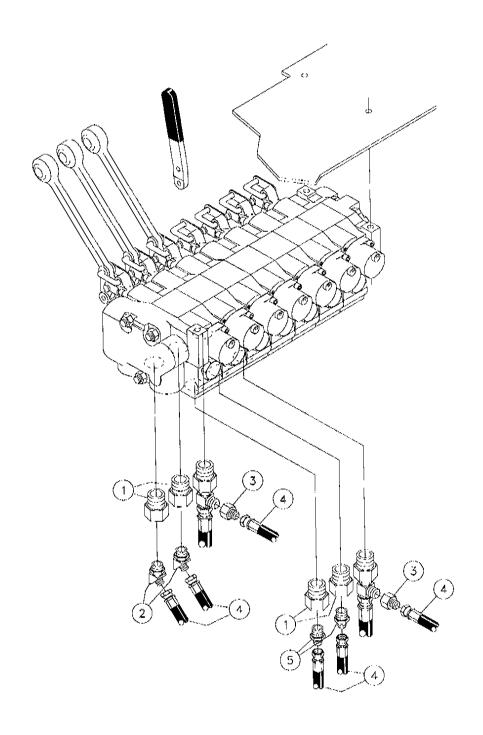


<u>QTY.</u>
4
. 2
2
1
1
1
6
1
2
1
1

D40X40/NAVTEC NAVIGATOR (PAGE 8-5)

CONTROL VALVE ASSEMBLY - ROD LOADER PLUMBING

Figure 8-5



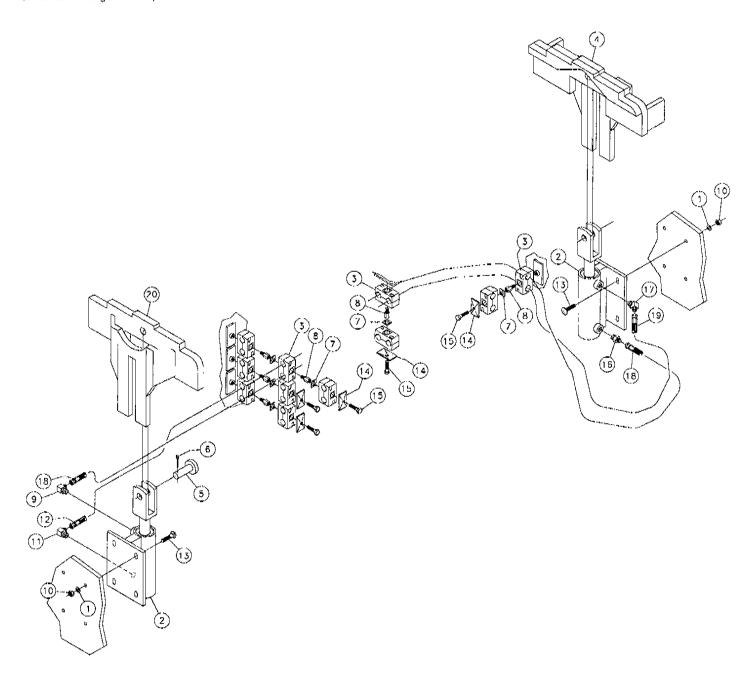
<u>REF.</u>	NO.	PART NŌ.	DESCRIPTION	OTY.
8-5	1	57967-001	10M-6F O-RING BUSHING	4
8-5	2	82931-001	FITTING-6MX4M JIC 45DEG.ELBOW	2
8-5	3	59928-001	6F JICX4M JIC ST REDUCER	2
8-5	4	53843-231	HOSE-1/4X66 4FS JIC 3000 PSI	6
8-5	5	57968-001	6M O-RING 4M JIC STRAIGHT	2

(PAGE 8-6) D40X40/NAVTEC NAVIGATOR

ROD EJECT CYLINDER ASSEMBLY

Figure 8-6

Revised February 1999 due to updates to pusher rods & addition of breakdown to manual. Changed/added parts marked with *.

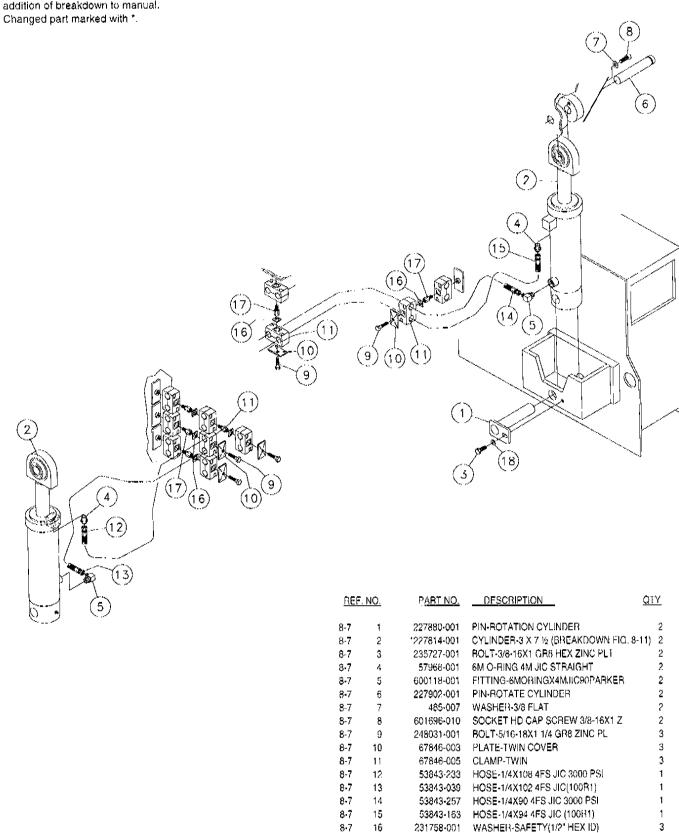


REF	<u>. NO.</u>	PART NO.	DESCRIPTION	<u>OTY.</u>	REF	NO.	PART NO.	<u>DESCRIPTION</u>	<u>QTY.</u>
8-6	1	235713-001	WASHEH-3/8 SAE HARD ZINC PLTD	8	8-6	11	131008-001	FITTING-4MJICX6MORING 90D.062R	1
8-6	2	224394-001	CYLINDER-2X5 (BREAKDOWN FIG. 8-10)	2	8-6	12	53843-201	HOSE-1/4X132 4FS JIC 3000 PSI	1
8-6	3	67846-005	CLAMP-TWIN	4	8-6	13	375-014	BOLT-3/8-16X1 1/2"GD#5CARRIAGE	8
8-6	4	*246287-001	PUSHER-ROD	1	8-6	14	67846-003	PLATE-TWIN COVER	4
8-6	5	222815-001	PIN-STEER CYLINDER	2	8-6	15	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	4
8-6	6	510-047	PIN - 3/16 X 1 1/4 COTTER	2	8-6	16	57968-001	6M O-RING 4M JIC STRAIGHT	1
8-6	7	231758-001	WASHER-SAFETY(1/2" HEX ID)	4	8-6	17	82931-001	FITTING-6MX4M JIC 45DEG.ELBOW	1
8-6	8	231757-001	BOLT-CLAMP STACKING 5/16THREAD	4	8-6	18	53843-061	HOSE 1/4X124 4FS JIC (100R1)	2
8-6	9	600118-001	FITTING-6MORINGX4MJIC90PARKER	1	8-6	19	53843-205	HOSE-1/4X120 4FS JIC 3000 PSI	1
8-6	10	235725-001	NUT-3/8-16 GR8 ZINC PLTD	8	8-6	20	276511-001	PUSHER-ROD	1

ROD ROTATION CYLINDER ASSEMBLY

Figure 8-7

Revised February 1999 due to addition of breakdown to manual.



17

231757-001

235713-001

8-7

8-7

BOLT-CLAMP STACKING 5/16THREAD

WASHER-3/8 SAE HARD ZINC PLTD

3

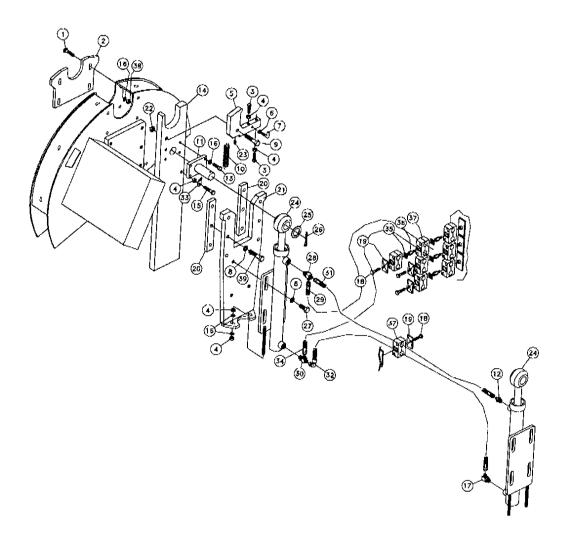
2

(PAGE 8-8) D40X40/NAVTEC NAVIGATOR

ROD POSITION CYLINDER ASSEMBLY

Revised August 2000 due to update in parts list. Changed part marked with *.

Figure 8-8



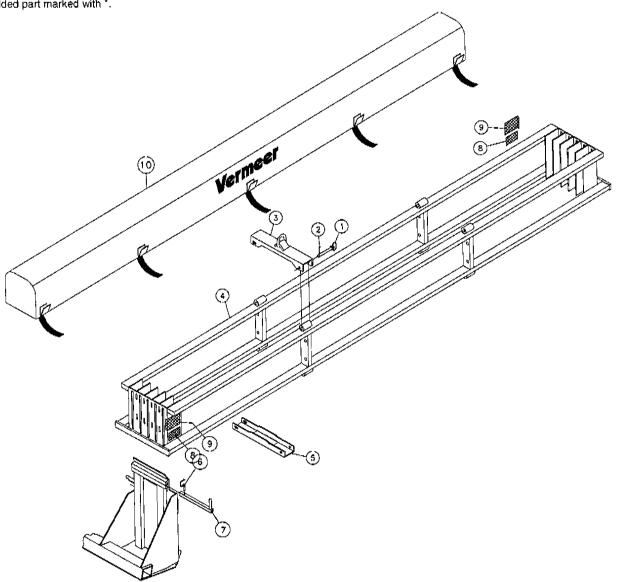
REF	. NO.	PART NO.	DESCRIPTION	QTY.	REF	. NO.	PART NO.	DESCRIPTION	QTY.
8-8	1	375-014	BOLT-3/8-16X1 1/2"GD#5CARRIAGE	8	8-8	21	227863-001	MOUNT-POSITION CYLINDER	2
8-8	2	246432-001	PLATE-LOADER INSERT	2	8-8	22	235722-001	NUT-1/2-13 GR8 JAM ZINC PLTD	2
8-8	3	249877-001	SQ HSS-3/8-16X2	4	8-8	23	598-001	ZERK-1/4" NF ST GREASE	2
8-8	4	250576-001	NUT-3/8 NC HEX JAM W/Y-ZINC	14	8-8	24	227815-001	CYLINDER 1 1/2 X 14 1/2 (BREAKDOWN	_
8-8	5	224327-001	PLATE-2 3/8 ROD FLIPPER (2 3/8"					FIG. 8-12)	2
			DRILL ROD)	2	8-8	25	249878-001	WASHER-1 7/8X1 1/4X14 GA M.B.	2
8-8	6	407-001	NUT-5/16 NC HEX JAM	2	8-8	26	510-025	COTTER PIN-3/16" X 2"	2
8-8	7	227847-001	HOOK-FLIPPER SPRING	2	8-8	27	235737-001	BOLT-1/2-13X1 1/4 GR8 ZINC PLT	Ř
8-8	8	485-025	WASHER-1/2 FLAT-HARDENED-ZINC	20	8-8	28	82930-001	FIT-6MX4M JICX4M JIC (BCH) TEE	1
8-8	9	*124631-026	BOLT-1/4-20X2 3/4 GR 8 HEX ZINC	2	8-8	29	53843-573	HOSE-1/4 X 112 4FS IC 3000 PSI	•
8-8	10	1789-013	\$PRING -EXT. #76 4" OA	2	8-8	30	131007-001	FIT-4MJICX6MORX4MJIC TEE R.062	•
8-8	11	227752-001	MOUNT-LOADER CYLINDER	2	8-8	31	53843-717	HOSE-1/4X136 4FS JIC ST 5000#	i
8-8	12	57968-001	6M O-RING 4M JIC STRAIGHT	1	8-8	32	53843-729	HOSE-1/4X150 4FSJICST/90D 3000	i
8-8	13	235736-001	BOLT-3/8-16X1 1/4 GR 8 HEX ZINC	8	8-8	33	239421-001	PLATE-SPRING HOOK	,
8-8	14	224325-001	ARM-2 3/8 ROD	2	8-8	34	53843-233	HOSE-1/4X108 4FS JIC 3000 PSI	1
8-8	15	235720-001	BOLT-3/8-16X1 3/4 6R8 ZINC PLT	2	8-8	35	231758-001	WASHER-SAFETY(1/2" HEX ID)	,
8-8	16	235713-001	WASHER-3/8 SAE HARD ZINC PLTD	16	8-8	36	231757-001	BOLT-CLAMP STACKING 5/16THREAD	2
8-8	17	600118-001	FITTING-6MORINGX4MJIC90PARKER	1	8-8	37	67846-005	CLAMP-TWIN	6
8-8	18	248031-001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	11	8-8	38	235725-001	NUT-3/8"-16 GR 8 HEZ Y/ZINC	
8-8	19	67846-003	PLATE-TWIN COVER	6	8-8	39	250573-001	BOLT-1/2-13X2 1/2 GR 8 HEZ Y/Z	12
8-8	20	224361-001	SPACER-ROD ARM	4	- -			and the state of t	14

D40X40/NAVTEC NAVIGATOR (PAGE 8-9)

ROD BOX ASSEMBLY (300')

Figure 8-9

Revised September 1999 due to update in illustration & parts list. Added part marked with *.



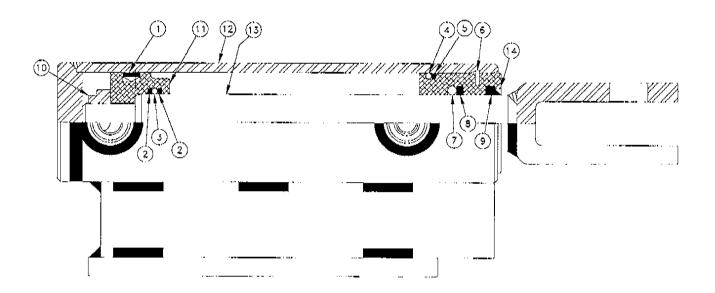
REF	. <u>NO.</u>	PART NO.	DESCRIPTION	QTY.
8-9	1	2107-007	PIN-HITCH 3/4 X 6	8
8-9	2	1794-003	HAIR PIN COTTER148 WIRE	8
8-9	3	227885-001	2 7/8" ROD BOX TOP	2
8-9	4	250602-001	ROD BOX ASSY-2.375 ROD (15')	
			(INC, TWO OF REF. 8 & 9)	1
		250602-003	BOX ASSY-RPD (300') 2.375" ROD (15')	
			(INT.) (INC. TWO OF REF. 8 & 9)	1
8-9	5	224479-001	PLATE-ROD BOX BOTTOM	2
8-9	5 6	2108-001	LYNCH PIN - 1/4 X 2	2
8-9	7	227906-001	PIN ROD BOX	2
8-9	8	70000-563	DECAL-WARNING (UND)	2
		70001-563	DECAL-WARNING (UND)	2
8-9	9	7000A-576	DECAL-DANGER	2
		700IA-576	DECAL-DANGER	2
8-9	10	*280650-001	COVER-D40 SHORT ROD BOX	1

(PAGE 8-10) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 2" X 5"

Figure 8-10

Revised February 1999 due to addition of figure to manual.



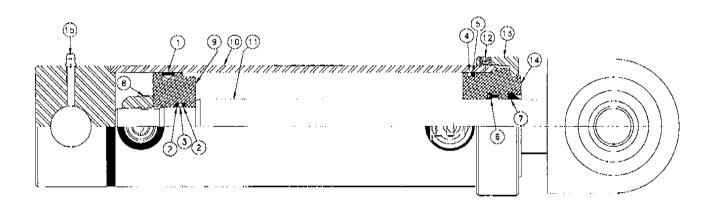
HEF	<u>. N</u> O,	<u>PART NÖ.</u>	<u>DESCRIPTION</u>	<u> </u>
8-10	1	200833-001	UNIRING	1
8-10	2	222440-007	BACK-UP RING	2
8-10	3	221256-013	O-RINĞ	1
8-10	4	51172-001	Q-RING	1
8-10	5	200834-001	BACKUP WASHER	1
8-10	6	224394-007	SNAP RING	1
8-10	7	200771-001	O-RING	1
8-10	8	224394-009	BACK-UP RING	1
8-10	9	221256-015	ROD WIPER	1
8-10	10	224394-011	THIN ŁÓCKNUŤ	1
8-10	11	218008-009	PISTON	1
8-10	12	224394-003	BARREL ASSY	1
8-10	13	224394-005	ROD ASSY	1
8-10	14	200831-001	GLAND	1
		224394-001	CYLINDER-2X5 (INC. REF. 1-14)	
		224394-013	SEAL KIT-2 X 5 CYLINDER (INC. REF. 1-9)	

D40X40/NAVTEC NAVIGATOR (PAGE 8-11)

HYDRAULIC CYLINDER COMPONENTS - 3" X 7 1/2"

Figure 8-11

Revised February 1999 due to addition of figure to manual.



<u>rec</u>	<u>. NQ.</u>	P <u>ART NÔ.</u>	DESCRIPTION	<u>QTY.</u>
8-11	1	200780-001	UNI-RING	1
8-11	2	208331-001	RING-BACK UP	2
8-11	3	208332-001	O-RING	í
8-11	4	200809-001	O-RING	1
8-11	5	200778-001	WASHER-BACKUP	1
8-11	6	204315-001	1 1/2" LOADED U-CUP	1
8-11	7	200808-001	WIPER	1
8-11	8	218496-007	LOCK NUT	1
8-1 1	9	227814-007	PISTON	1
8-11	10	227814-003	BARREL ASSY	1
8-11	11	227814-005	ROD A\$\$Y	1
8-11	12	219125-011	NT SHISET SCHEW	1
8-11	13	218496-013	THREADED CAP	1
8-11	14	89315-007	GLAND-CYLINDER	1
8-11	15	598-001	ZERK-1/4" NF ST GREASE	1
		227814-001	CYLINDER-3 X 7 ½ (INC. REF. 1-15)	

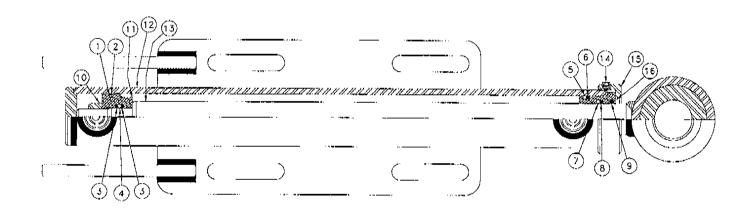
227814-001 CYLINDER-3 X 7 ½ (INC. REF. 1-15)
227814-009 SEAL KIT-3X7 1/2 CYLINDER (INC. REF. 1-7)

(PAGE 8-12) D40X40/NAVTEC NAVIGATOR

HYDRAULIC CYLINDER COMPONENTS - 1 1/2" X 14 1/2"

Figure 8-12

Revised February 1999 due to addition of figure to manual.



REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	QTY.
8-12	1	227815-007	TEFLON PISTON RING	1
8-12	2	227815-009	O-RING	1
8-12	3	227815-011	BACK-UP RING	2
8-12	4	227815-013	O-RING	1
8-12	5	202727-001	O-RING	1
8-12	6	119510-005	BACK-UP RING	1
8-12	7	208178-001	O-RING	1
8-12	8	208177-001	WASHER-BACKUP	1
8-12	9	227815-021	ROD WIPER	1
8-12	10	202722-001	LOCKNUT	1
8-12	11	227815-015	PISTON	1
8-12	12	227815-003	BARREL ASSY	1
8-12	13	227815-005	ROD ASSY	1
8-12	14	219125-011	NT SHISET SCREW	1
8-12	15	215170-019	CAP-THREADED	1
8-12	16	215170-017	ROD ASSEMBLY	1
		227815-001	CYLINDER 1 1/2 X 14 1/2 (INC. REF. 1-16)	
		227815-019	SEAL KIT-1 1/2X14 1/2 CYLINDER	

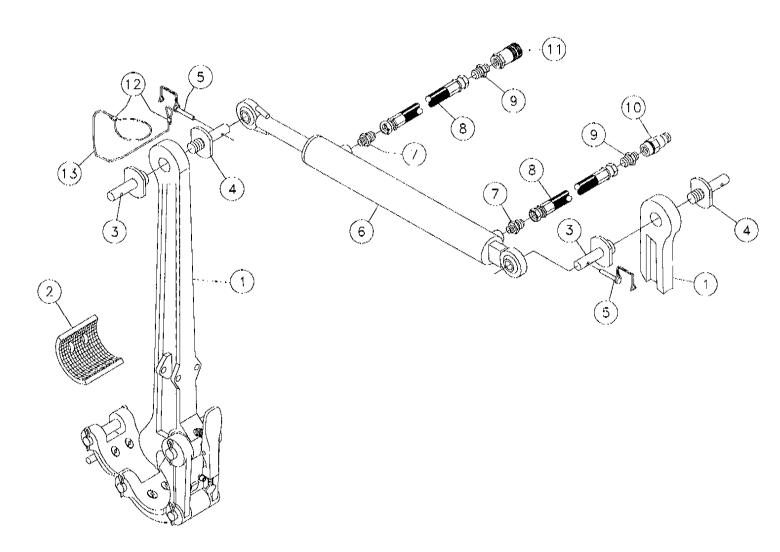
(INC. REF. 1-9)

D40X40/NAVTEC NAVIGATOR (PAGE 9-1)

TUBING TONG ASSEMBLY

Figure 9-1

Revised February 1999 due to parts list update. Changed part marked with *.

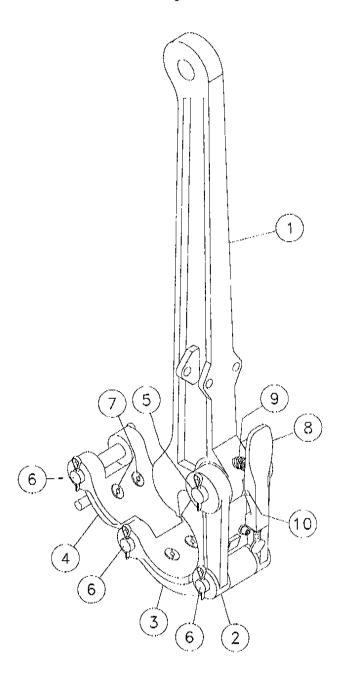


					QTY.	
REF	. NO.	<u>PART NO.</u>	DESCRIPTION	2 3/8"	2 7/8"	<u>3 1/2"</u>
		000070 004	TONO KOO LIGHT WEIGHT TURING			
9-1	ì	230970-001	TONG-K30 LIGHT WEIGHT TUBING			
9-1	2	235870-001	K-30 2 5/8 DIES (3/SET)	1		
		230972-001	DIES-3 1/4"TUBING TONG)3/SET)		1	
		230974-001	DIES-3 5/8" TUBING TONG(3/SET)			1
9-1	3	234967-001	PIN-FEMALE CYLINDER	2	2	2
9-1	4	234966-001	PIN-MALE CYLINDER	2	2	2
9-1	5	2108-001	LYNCH PIN - 1/4 X 2	2	2	2
9-1	6	1230977-001	CYLINDER-2"X15" (BREAKDOWN			
			FIG. 9-3)			
9-1	7	86235-001	6M ORING X 8M JIC STR.	2	2	2
9-1	8	53844-167	HOSE-1/2X240 8FS JIC 3000 PSI	2	2	2
9-1	9	68634-001	FITTING-3/8MX8M JIC (STR)	2	2	2
9-1	10	221503-001	COUPLER-3/8 NPT QUICK (MALE)	1	1	1
9-1	11	221504-001	COUPLER-3/8 NPT QUICK (FEMALE)	1	1	1
9-1	12	1838 001	CONNECTOR-WIRE (FTC)	4	4	4
9-1	13	240546-001	CABLE-3/32 NYLON-18.00	2	2	2

(PAGE 9-2) D40X40/NAVTEC NAVIGATOR

TUBING TONG COMPONENTS

Figure 9-2



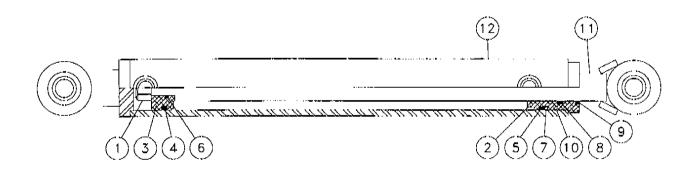
REE	. NO.	PART NO.	DESCRIPTION	<u>QTY.</u>
9-2	1	230970-003	TONG HANDLE	1
9-2	2	230970-005	HANDLE JAW	1
9-2	3	230970-007	CENTER JAW	1
9-2	4	230970-009	LATCH JAW	1
9-2	5	230970-011	HANDLE PIN	1
9.2	6	230970-013	JAW PIN	3
9-2	7	230970-015	BUSHING AND SCREW	6
9-2	8	230970-017	ADJUSTABLE TONG LATCH	1
9-2	9	230970-019	LATCH SPRING	1
9-2	10	230970-021	LATCH RIVET	1
		020070.001	TONG-K30 LIGHT WEIGHT TURING	

230970-001 TONG-K30 LIGHT WEIGHT TUBING (COMPLETE) (INC. REF. 1-10)

D40X40/NAVTEC NAVIGATOR (PAGE 9-3)

HYDRAULIC CYLINDER COMPONENTS - 2" X 15"

Figure 9-3



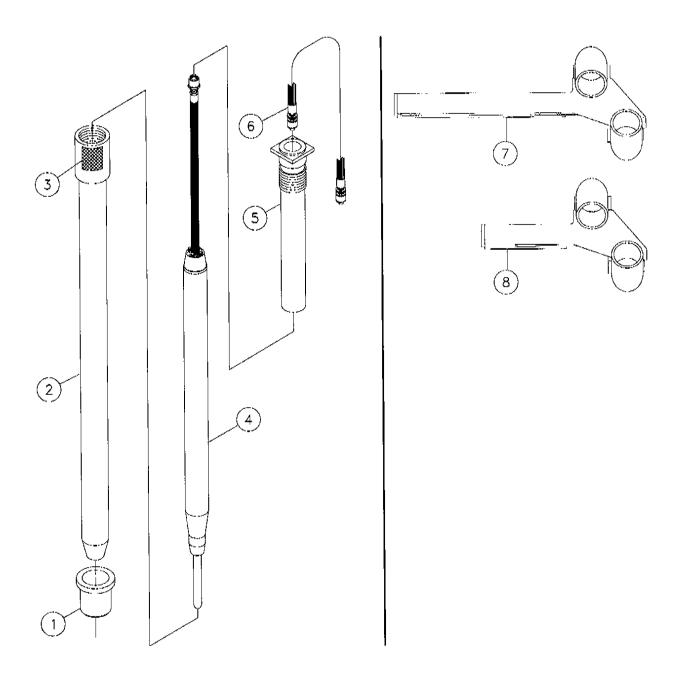
REF	<u>, NO.</u>	PART NO.	DESCRIPTION	QTY.
9-3	1	230977-003	NUT	1
9.3	2	230977-005	HEAD	1
9-3	3	230977-007	PISTON	1
9-3	4	230977-009	PSP-SEAL	1
9-3	5	51181-001	O-RING #326	1
9-3	6	792-029	O-RING	1
9.3	7	230977-011	BACK-UP	1
9.3	8	230977-013	ROD SEAL	1
9.3	9	230977-015	DUST SEAL	1
9-3	10	230977-017	RETAINING RING1	1
9-3	11	230977-019	SHAFT (W/CLEVIS)	1
9-3	12	230977-021	BARREL (W/CLEVIS AND PORTS)	1
		230977-023	REPAIR KIT (INC. REF. 4-10)	
		230077-001	CYLINDER-2"Y15" (INC. REF. 1-12)	

230977-001 CYLINDER-2"X15" (INC. REF. 1-12)

D40X40/NAVTEC NAVIGATOR (PAGE 10-1)

STAKE/DRIVER ASSEMBLY

Figure 10-1

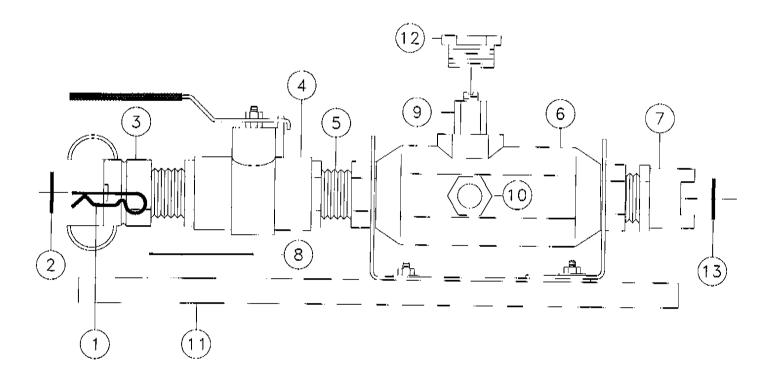


REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
10-1	1	231898-001	STAKE SLEEVE	4
10-1	2	231897-001	STAKE	4
10-1	4	231900-001	STAKE DRIVING MOLE	1
10-1	5	231899-001	EXTRACTION SLEEVE	1
10-1	6	208267-001	50'HOSE W/COUPLINGS	A /R
10-1	7	231202-001	MOUNT-LONG PNEAMATIC STAKE	1
10-1	8	231200-001	MOUNT-PNEUMATIC STAKE	1

(PAGE 10-2) D40X40/NAVTEC NAVIGATOR

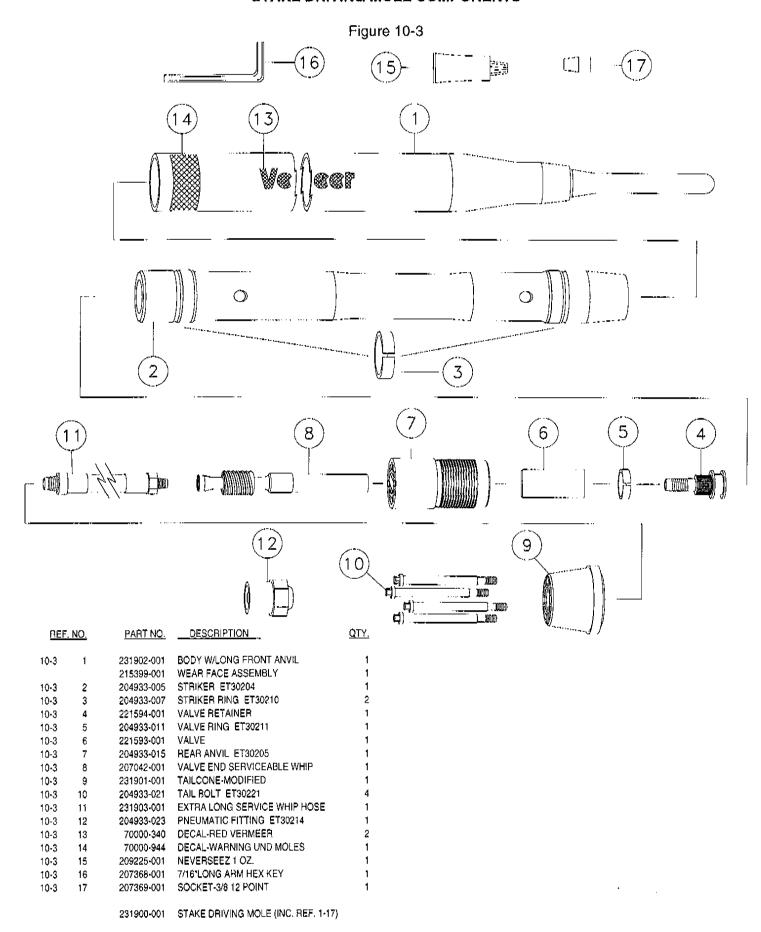
MIST OILER ASSEMBLY

Figure 10-2



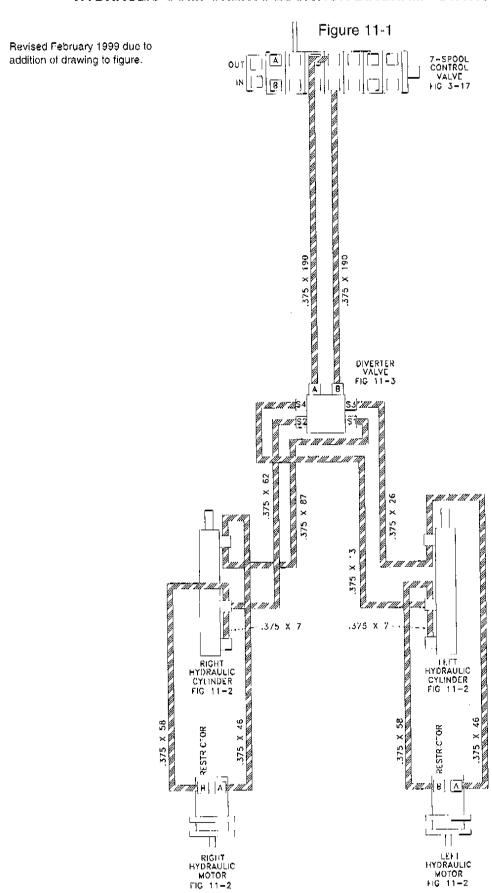
REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>OTY.</u>
10-2	1	205154-007	SAFETY CLIP	1
10-2	2	205154-007	FITTING GASKET	i
10-2	3	205154-003	CLAW FITTING-MALE	1
10-2	4	3379-001	VALVE - 3/4" BALL - #101R NPT	1
10-2	5	736-007	3/4" CLOSE NIPPLE BLACK STEEL	1
10-2	6	208566-001	MIST OILER W/PRESSURE RELIEF	
			(INC. REF. 1-13)	1
		211713-001	OILER ASSY-EUROPEAN STANDARD	1
10-2	7	205154-011	PNEUMATIC FITTING	1
10-2	8	70000-685	DECAL-WARNING	1
10-2	9	208567-001	OILER VALVE W/O-RING	1
10-2	10	208569-001	SIGHT WINDOW W/O-RING	2
10-2	11	208570-001	WOODEN BASE W/BRACKETS	1
10-2	12	208599-001	MANUAL RELIEVING SAFETY CAP AY	1
10-2	13	208566-003	RUBBER GASKET	1

STAKE DRIVING MOLE COMPONENTS



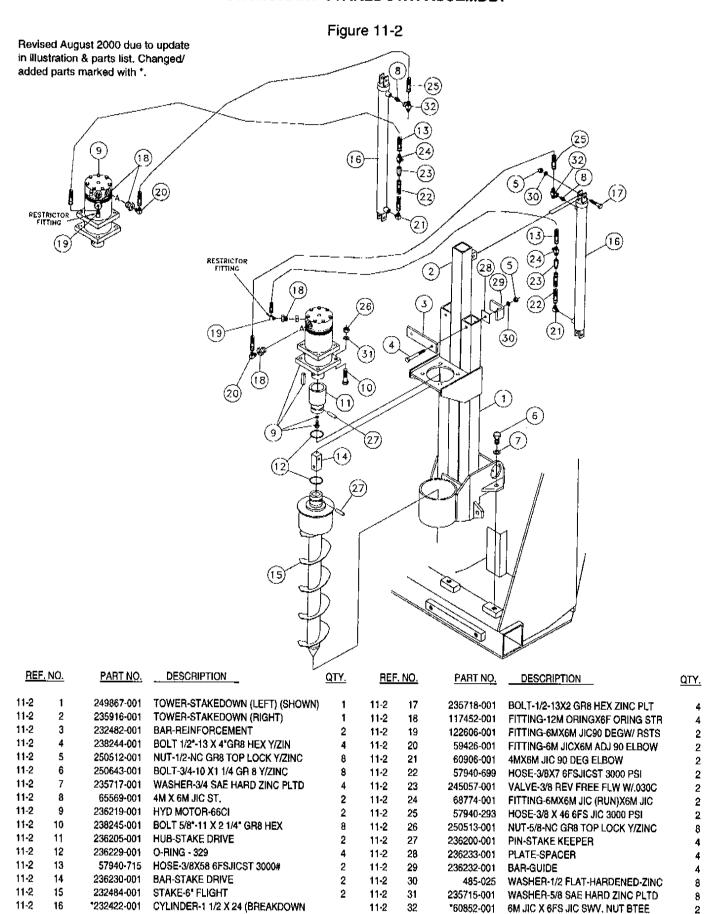
	•

HYDRAULIC COMPONENTS LOCATION DIAGRAM - STATIONARY STAKE DOWN



(PAGE 11-2) D40X40/NAVTEC NAVIGATOR

STATIONARY STAKEDOWN ASSEMBLY



2

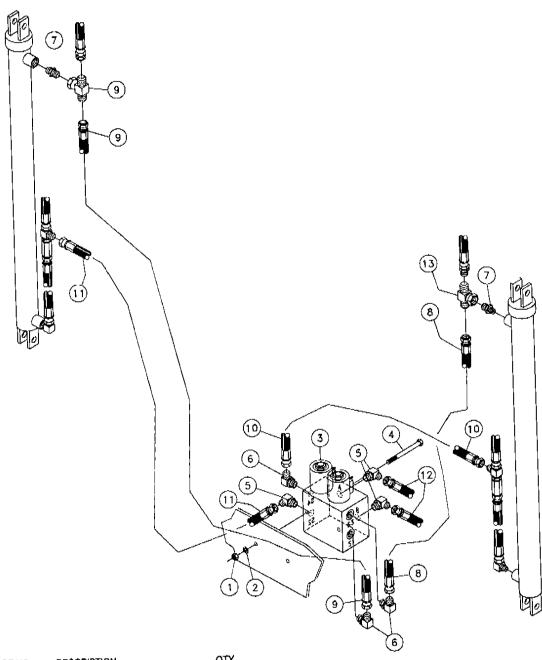
FIG. 11-7) (REPLACES 245060-001)

2

Revised August 2000 due to update in illustration & parts list. Added part marked with *.

DIVERTER VALVE ASSEMBLY

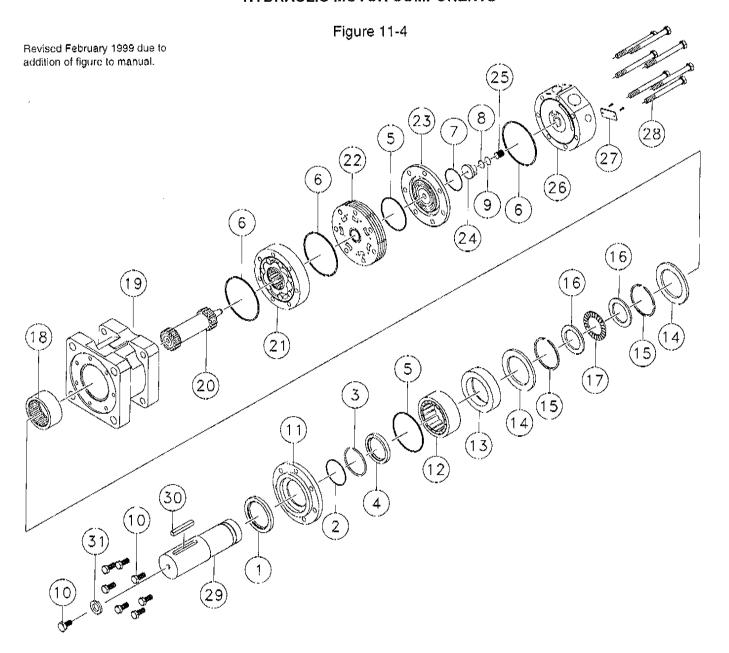
Figure 11-3



REF. NO. P		PART NO.	DESCRIPTION	<u>QTY.</u>
11-3 11-3 11-3 11-3 11-3 11-3 11-3 11-3	1 2 3 4 5 6 7 8 9 10 11	235741-001 235714-001 251072-001 248013-001 65563-001 59426-001 65569-001 57940-361 57940-575 251042-001 57940-513	NUT-5/16-18 GR8 ZINC PLTD WASHER-5/16 SAE HARD ZINC PLTD VALVE - DIVERTER (BRKDWN FIG. 11-6) BOLT-5/16-18X3 1/2 GD8 ZINC PL 6M X 6M JIC 45 DEGREE FITTING-6M JICX6M ADJ 90 ELBOW 4M X 6M JIC ST. HOSE-3/8X26 6FS JIC 2500 PSI HOSE-3/8X87 6FS JIC 3000 PSI HOSE-3/8X13 GFS JIC ST 3000 HOSE-3/8X62 6 FS JIC 3000 PSI	2 2 1 2 3 3 2 1 1
11-3 11-3 11-3	12 13	57940-451 *60852-001	HOSE-3/8 X 190 6FS JIC 4000PSI 6M JIC X 6FS JIC SWV NUT BTEE	2 2

(PAGE 11-4) D40X40/NAVTEC NAVIGATOR

HYDRAULIC MOTOR COMPONENTS

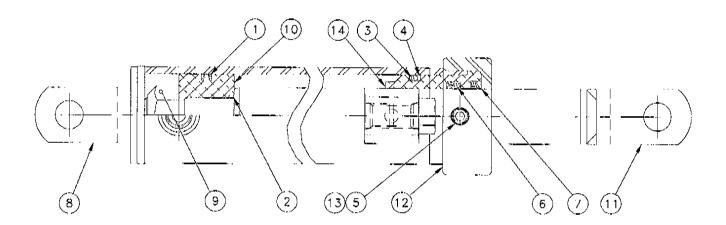


REF	<u>. NO.</u>	PA <u>RT NO.</u>	DESCRIPTION	OTY.	REF	<u>. NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY</u> .
11.4	1	NSS	SEAL-DUST	1	11-4	19	236219-023	HOUSING	1
11-4	2	NSS	SHIM-METAL BACKUP	1	1 1-4	20	236219-025	DRIVE LINK	1
11-4	3	NSS	SEAL TEFLON BACKUP	1	11 4	21	236219-027	ROTOR ASSEMBLY	1
11-4	4	NSS	SEAL-SHAFT	1	11-4	22	236219-029	MANIFOLD	1
11-4	5	NSS	SEAL-LATHE CUT	2	11-4	23	236219-031	COMMUTATOR ASSEMBLY	1
11-4	6	NSS	SEAL-BODY	3	11-4	24	236219-033	PISTON-ENDCOVER	1
11 4	7	NSS	SEAL-COMMUTATOR	1	11-4	25	236219-035	SPRING-PISTON	1
11-4	8	NSS	SEAL-O-RING	1	11-4	26	236219-037	ENDCOVER (INC. REF. 8, 9, 24 & 25)	1
11-4	9	NSS	SEAL-TEFLON BACKUP	1	11-4	27	NSS	I.D. TAG ASSEMBLY	1
11-4	10	383-010	BOLT-1/2-20X1 GR.8 HEX HEAD	8	11-4	28	236219-039	BOLT	7
11-4	11	236219-007	RING-PILOT	1	11-4	29	236219-041	SHAFT-ASSEMBLY	1
11-4	12	236219-009	BEARING-2 1/2" ROLLER	1	11-4	30	236219-005	KEY-SHAFT	1
11-4	13	236219-011	SPACER-BEARING	1	11-4	31	480-011	WASHER-1/2 S/T LOCK	1
11-4	14	236219-013	WASHER-RETAINING	2					
11-4	15	236219-015	SNAP RING	2			236219-001	HYD MOTOR (INC. ALL ITEMS IN THIS	FIGURE)
11-4	16	236219-017	WASHER-THRUST	2			236219-003	SEAL KIT-HYD, MOTOR (INC. REF. 1-9)	
11-4	17	236219-019	BEARING-THRUST	1			NSS	NOT SOLD SEPARATELY	
11-4	18	236219-021	BEARING-REAR HOUSING	1					

HYDRAULIC CYLINDER COMPONENTS - 1 1/2" X 24" W/ TEE

Figure 11-5

Revised February 1999 due to addition of figure to manual.



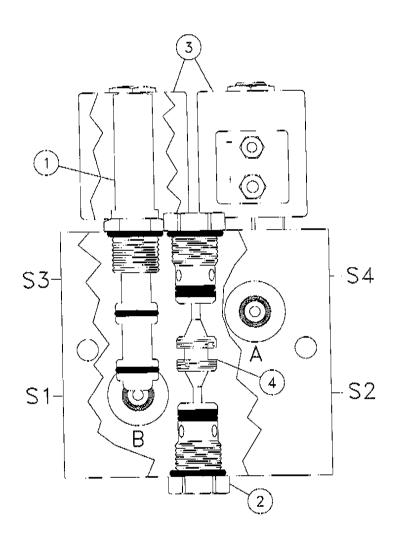
REF. NO. PART NO.		<u>PART NO.</u>	DESCRIPTION	<u>OTY.</u>
11-5	1	245060-003	PSP "A" SEAL	1
11-5	2	232422-005	O-RING	1
11-5	3	232422-007	O-RING	1
11-5	4	232422-009	BACKUP RING	1
11.5	5	232422-011	LOCKING INSERT	1
11-5	6	232422-013	DOUBLE LIP U-CUP	1
11-5	7	232422-015	ROD WIPER	1
11-5	8	245060-005	TUBE-WELDMENT	1
1 1-5	9	232422-019	625-18UNF LOCKNUT	1
11-5	10	232422-021	PISTON	1
11-5	11	232422-023	ROD WELDMENT	1
11.5	12	232422-025	HEAD GLAND CAP	1
11.5	13	99859-005	SCREW-LG SET .313-18 X .25	1
11-5	14	232422-027	HEAD GLAND	1
		245060-007	SEAL KIT (INC. REF. 1-7)	
		245060-001	CYLINDEH-1 1/2 X 24 W/TEE (INC, ALL ITEMS IN THIS FIGURE)	

(PAGE 11-6) D40X40/NAVTEC NAVIGATOR

DIVERTER VALVE COMPONENTS

Figure 11-6

Revised September 1999 due to update in parts list. Changed parts marked with *.



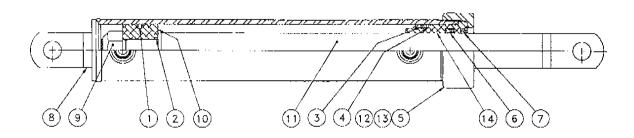
REF.	NO.	<u>PART NÓ.</u>	DESCRIPTION	<u>QTY.</u>
11-6	1	251072-003	SOLENOID VALVE	2
		*204097-005	ŞEAL KIT	
11- 6	2	205737-003	CARTRIDGE - CHECK VALVE	2
		*228128-009	SEAL KIT	
11-6	3	240983-001	COIL-10 DV 12 VDC	2
11-6	4	251072-009	PISTON	1
		251072-001	VALVE - DIVERTER (INC. ALL ITEMS IN THIS FIGURE)	

D40X40/NAVTEC NAVIGATOR (PAGE 11-7)

HYDRAULIC CYLINDER COMPONENTS - 1 1/2 X 24"

Figure 11-7

Revised August 2000 due to addition of figure to manual.



REF. NO. PART NO.		PART NO.	DESCRIPTION	QTY.
11-7	1	232422-003	T-SEAL	1
11-7	2	232422-005	O-RING	1
11-7	3	232422-007	O-RING	1
11-7	4	232422-009	BACKUP RING	1
11-7	5	232422-011	LOCKING INSERT	1
11-7	6	232422-013	DOUBLE LIP U-CUP	1
11-7	7	232422-015	ROD WIPER	1
11-7	8	232422-017	TUBE WELDMENT	1
11-7	9	232422-019	.625 18 UNF LOCKNUT	1
11-7	10	232422-021	PISTON	1
11-7	11	232422-023	ROD WELDMENT	1
11-7	12	232422-025	HEAD GLAND CAP	1
11-7	13	99859-005	SCREW-LG SET .313-18 X .25	1
11-7	14	232422-027	HEAD GLAND	1
		232422-001	CYLINDER-1 ½ X 24 (INC. REF. 1-14)	
		232422-029	SEAL KIT (INC. REF. 1-7)	

D40X40/NAVTEC NAVIGATOR (PAGE 12-1)

LOCATION PACKAGE, MARK III - DIGITRAK - DOMESTIC AND INTERNATIONAL

				Figure 12	$\begin{bmatrix} - & - & - \\ c & - & - \end{bmatrix}$
REF.N	<u>10.</u>	PART NO.	DESCRIPTION	QTY.	(
12-1 12-1 12-1 12-1 12-1 12-1	2 3 4 5 6	213389-011 231990-001 231991-001 213389-009 213389-007 221806-001 213389-005 226196-001 221643-001 213086-001	DIGITRAK CARRYING CASE DIGITRAK OP. MAN. TRAIN VIDEO DIGITRAK RECEIVER-ENGLISH/METR DIGITRAK BATTERY PACK DIGITRAK SMART CHARGER115/230V SONDE-15' BLUE SONDE - 30' YELLOW SONDE - 50' RED (4 BATT) SONDE-50' RED O-RING #122 DIGITRAK STD.LOCATOR (US/CAN) (INC. REF. 5)	1 1 2 1 1 1 1 1 3	

(PAGE 12-2) D40X40/NAVTEC NAVIGATOR

LOCATION PACKAGE, MARK III - DIGITRAK (W/ REMOTE DISPLAY) DOMESTIC

Figure 12-2

				•		
						8
REF	. <u>NO.</u>	PAHT NO.	DESCRIPTION	QTY. <u>STD.</u>	CABLE SONDE	
12-2 12-2 12-2 12-2 12-2 12-2 12-2 12-2	1 2 3 4 5 6	213389-011 231990-001 231992-001 213389-009 213389-005 221806-001 213389-005 221643-001 226196-001 226199-001 226199-001 226200-001 213086-001 221658-001 231993-001 231994-001 231218-001	DIGITRAK CARRYING CASE DIGITRAK OP. MAN. TRAIN VIDEO RECEIVER W/REMOTE ENGLISH/METR DIGITRAK BATTERY PACK DIGITRAK SMART CHARGER115/230V SONDE-15' BLUE SONDE - 30' YELLOW SONDE-50' RED SONDE -50' RED (4 BATT) SONDE -50' .1P MAGENTA SONDE-50' .1P MAGENTA SONDE-100' CABLE GREEN SONDE-100' CABLE .1P GREEN O-RING #122 REMOTE CARRYING CASE DIGITRAK REMOTE DISPLAY REMOTE DISPLY FOR CABLE SONDE CABLE SONDE POWER SUPPLY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	
		231221-001	(INC. REF. 1-5, 7 & 8) DCI REM CABLE SONDE SYS(US/CAN (INC. REF. 1-3 & 7-9)			
						3
						4 Fig. 5

D40X40/NAVTEC NAVIGATOR (PAGE 12-3)

LOCATION PACKAGE, MARK III - DIGITRAK (W/REMOTE DISPLAY) INTERNATIONAL

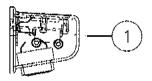
Figure 12-3

<u>ref.</u>	NÓ.	PART NO.	DESCRIPTION	OTY. STD.	CABLE SONDE	9
12-3	1	213389-011	DIGITRAK CARRYING CASE	1	1	
12-3 12-3	2	231990-001 231995-001	DIGITRAK OP. MAN. TRAIN VIDEO RECEIVER W/REMOTE FUNCTION AU	1 1	1	
12-3	3	231996-001		i	1	
12-3	4	213389-009		2	•	
12-3	5	213389-007		1		
12-3	6	221806-001	SONDE-15' BLUE	1	•	
		213389-005		1	•	
		221643-001		1	•	
		226196-001		1	•	
		226197-001 226198-001		1	•	(r-r)
		226199-001			1	
		226200-001		-	1	
		213086-001		3	3	
12-3	7	221658-001		1	1	
12-3	8	2319 9 7-001		1	-	1 1
		231998-001		1	1	
		231999-001		1	1	
12-3	9	238750-001 226195-001		1		
	•	220.00.001				
		231219-001	DCI REMOTE LOCATOR SYS (AU)			
			(INC REF. 1-5, 7 & 8)			L
		231222-001	- •			
		001000 001	(INC. REF. 1-3 & 7-9)			بالر
		231220-001	DCI REMOTE LOCATOR SYS (UK) (INC. REF. 1-5, 7 & 8)			(1)
		231223-001				
		20,220 05.	(INC. REF. 1-3 & 7-9)			
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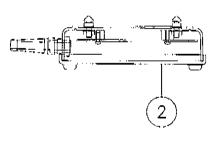
(PAGE 12-4) D40X40/NAVTEC NAVIGATOR

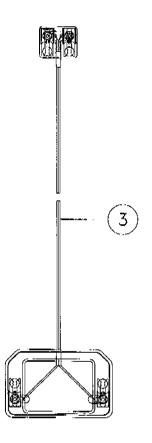
DATA LOGGER, MARK III - DIGITRAK

Figure 12-4



REF. NO.		PART NO.	DESCRIPTION	QTY.
12-4	1	231224-001	DATA LOGGER MODULE	1
12-4	2	231228-001	DATA-LOG/PC INTERFACE	1
12-4	3	238751-001	DATA LOG REAL TIME CABLE	1
12-4	4	238752-001	DIGITRAK LOGGER MANUAL	1







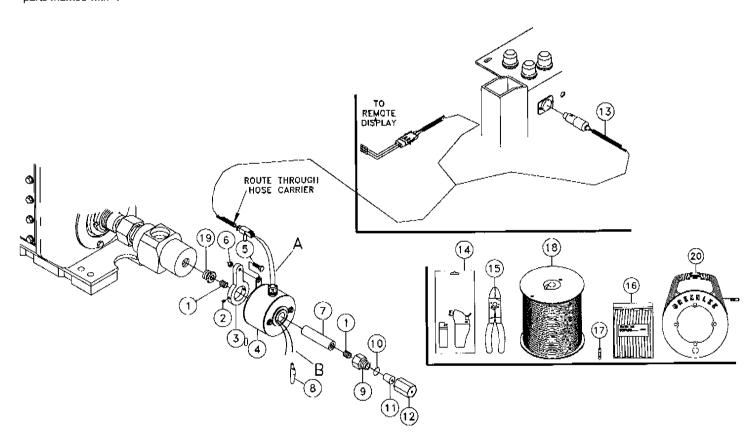


D40X40/NAVTEC NAVIGATOR (PAGE 12-5)

CABLE SONDE ACCESSORY ASSEMBLY

Figure 12-5

Revised February 2000 due to update in illustration & parts list. Changed/added parts marked with *.



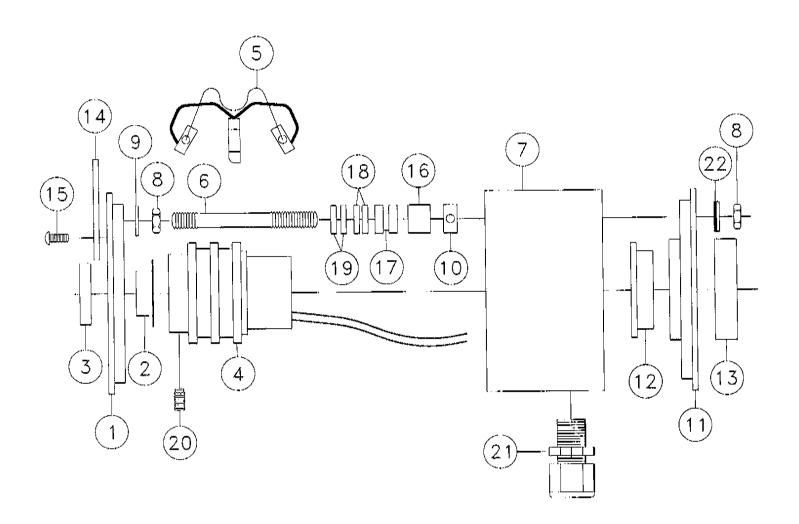
REF. NO. PART NO.		PART NO.	DESCRIPTION	Q⊤Y.
		700.000	AMA OLOGE NURRI E DI ACIV CTETI	^
12-5	1	736-003	3/8' CLOSE NIPPLE BLACK STEEL	2
12-5	2	523-001		2
12-5	3	234926-001	MOUNT ANTI-ROTATION	1
12-5	4	234929-001	SLIP RING-2 CIRCUIT (BREAKDOWN FIG. 12-6)	1
12-5	5	238209-001	BOLT-5/16-18X1 GR 8 HEX ZINC YC	1
12-5	6	240333-001	NUT-5/16-18 GR 8 TL ZIN PLTD	i
12-5	7	234895-001	SHAFT-SPOOL MOUNT	1
	8	250022-001	CLIP-ALLIGATOR/RED	3
12-5	9	234887-001	BASE-COMPRESSION FITTING	1
12-5	_		O-RING	1
12-5	10	792-029		3
12-5	11	*234957-001	STOPPER-COMP. FITTING 12GA	-
12-5	12	234888-001	COVER-COMPRESSION FITTING	1
12-5	13	279344-001	WIRE-HARNESS D24X40A WIRE LINE	1
12-5	14	234856-010	MICRO-TORCH	1
12-5	15	234857-001	CRIMPER	1
12-5	16	*279380-001	HEAT SHRINK 3/8X6" QTY 20	
			(REPLACES 279339-001)	5
12-5	17	*279378-001	BUTT CONNECTOR 10X12 GA W/O HEA	AT T
			SHRINK (REPLACES 234858-001)	100
12-5	18	240529-001	WIRE-10 GA RED 500" (THHN)	1
12-5	19	730-009	3/4X3/8" HEX BUSHING STEEL	1
12-5	20	*279379-001	FISHTAPE-1/8" DIA X 50" W/ WINDER CA	ASE 1
		279337-001	D40X40 CABLE SONDE ACCESSORY K (INC. ALL ITEMS IN FIGURE)	ïΤ

(PAGE 12-6) D40X40/NAVTEC NAVIGATOR

SLIP RING COMPONENTS

Figure 12-6

Revised September 1999 due to addition of figure to manual.

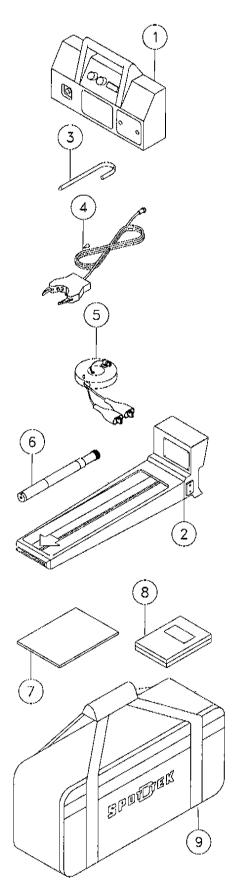


REF.	. <u>NO</u> .	PART NO.	DESCRIPTION	QTY.	REF	. NO.	PART NO.	DESCRIPTION	QTY.
12-6	1	234929-003	BASE-SLIP RING	1	12-6	14	234929-025	BRACKET-TORQUE	1
12-6	2	234929-005	BEARING-NYLON	1	12-6	15	57200-001	SCREW-#8-32X1/2 RND.HD.MACH.	2
12-6	3	234929-007	SEAL-GREASE	1	12-6	16	234929-027	SPACER5 WIDE	2
12-6	4	234929-009	CORE ASSEMBLY (INC. REF. 20)	1	12- 6	17	234929-029	SPACER-GROOVED	2
12-6	5	234929-011	BRUSH ASSEMBLY	2	12-6	18	234929-031	SPACER - ,082 WIDE	4
12-6	6	234929-013	\$TUD-5/16-18 X 3 1/4	2	12-6	19	234929-033	SPACER125 WIDE	4
12-6	7	234929-015	COVER-PVC	1	12-6	20	234929-035	\$\$\$-1/4-20X 1/2 KNURLED	2
12-6	8	407-001	NUT-5/16 NC HEX JAM	4	12-6	21	234929-037	CONNECTOR-PLASTIC	1
12-6	9	485-005	WASHER-5/16 FLAT	2	12-6	22	234929-039	WASHER-SEALING	2
12-6	10	234929-017	COLLAR-5/16" SET	2					
12-6	11	234929-019	PLATE-END	1			234929-001	SLIP RING - 2 CIRCUIT (INC. ALL ITEMS	}
12-6	12	234929-021	BEARING-,05" IGUS	1				IN FIGURE)	
12-6	13	234929-023	SEAL-SHAFT	1					

D40X40/NAVTEC NAVIGATOR (PAGE 13-1)

LOCATION PACKAGE, SPOT D TEK II.2 UTILITY

Figure 13-1



REF.	NO.	PART NO.	DESCRIPTION	QTY.
13-1	1	213900-003	TRANSMITTER FOR SPOT DITEK II	1
		213900-019	SUNSCREEN FOR TRANSMITTER	1
13-1	2	215941-001	RCEIVER II,2	1
13-1	3	213900-013	GROUND STAKE-SPOT DITEK II	1
13-1	4	213900-007	EXTERNAL COIL - SPOT D TEK II	1
13-1	5	213900-015	DIRECT CONNECTION CABLE	1
13-1	6	215942-001	DIR, PROBE II.2 W/ BATTERRIES	1
13-1	7	215938-003	OPERATIONAL MANUAL	1
13-1	8	213900-021	VIDEO TAPE	1
13-1	9	213900-009	CASE FOR SPOT DITEK II	1

ACCESSORIES

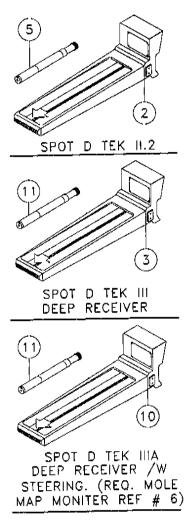
213900-023 SUNSCREEN-RECEIVER/II.2 MONITOR 213900-025 RAINCOVER-RECEIVER

215938-001 SPOT D TEK II.2 UTILITIY LOC. PCK (INC. REF. 1-9)

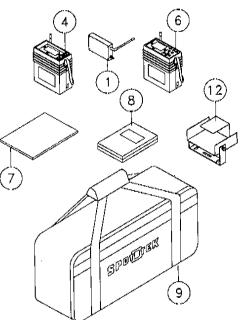
(PAGE 13-2) D40X40/NAVTEC NAVIGATOR

LOCATION PACKAGE, SPOT D TEK II.2, III & IIIA

Figure 13-2



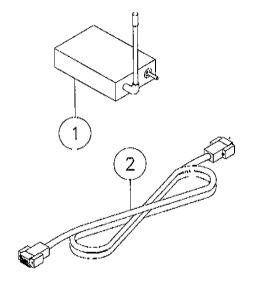
REF	<u>NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
13-2	1	213902-005	WIRELESS TRANSMITTER	1
13-2	2	215941-001	RECEIVER II.2	1
13-2	3	231197-003	RECEIVER-III	1
13-2	4	215943-001	WIRELESS MONTIOR II.2	1
13-2	5	215942-001	DIR.PROBE II.2	1
13.2	6	231109-001	MONITOR - MOLE MAP	1
13-2	7	215938-003	OPERATIONAL MANUAL	1
13-2	8	215940-003	VIDEO TAPE-INSTRUCTIONAL (LOCATING W/ PROBES)	1
13-2	9	213900-009	CASE FOR SPOT DITEK II	1
13-2	10	231111-003	RECEIVER-IIIA	1
13-2	11	231110-001	SPOT-D-TEK DEEP SONDE	1
13-2	12	244935-001	HOLDER ASSY,-REMOTE MONITOR	1
		215940-001	SPOTDTEK II.2 REMOTE MON. PKG. (INC. REF. 1 & 4)	
		215939-001	SPOTDTEK II.2 DIRECT.BORE PKG. (INC. REF. 2, 5 & 7-9)	
		231197-001	SPOT-D-TEK III DEEP RECEIVER (INC. REF. 3 & 7-9)	
		231111-001	SPOT-D-TEK IIIA DEEP REC W/REM STEERING FUNCTION (INC. REF. 7-9 &	10)
			ACCESSORIES	
		216871-001 213900-023 213900-025 213902-011 238762-001 238763-001		



D40X40/NAVTEC NAVIGATOR (PAGE 13-3)

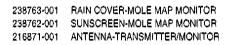
LOCATION PACKAGE, SPOT D TEK MOLE MAPPING SYSTEM

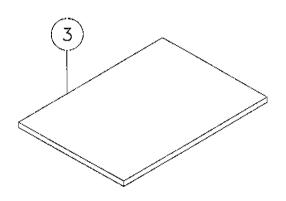
Figure 13-3

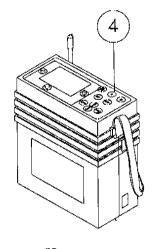


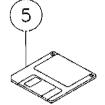
REF	NO.	PART NO.	DESCRIPTION Q	ΤΥ.
13-3	1	213902-005	WIRELESS TRANSMITTER (INC. REF. 3)	1
13-3	2	231109-005	COMPUTER CORD	1
13-3	3	231109-007	OPERATIONAL MANUAL	1
13-3	4	231109-001	MONITOR-MOLE MAP	1
13-3	5	231109-003	MAPPING SOFTWARE REPLACE DISK	: 1
		231113-001	MAPPING SYSTEM COMPLETE (INC. REF. 1-5)	

ACCESSORIES





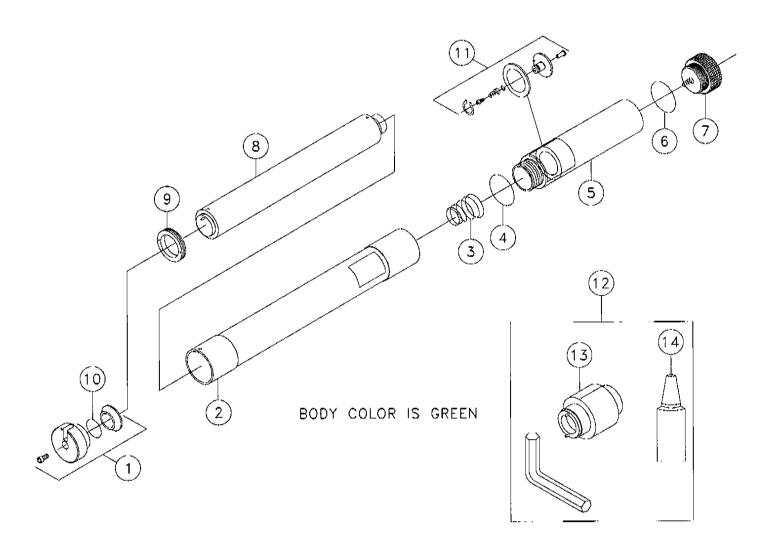




(PAGE 13-4) D40X40/NAVTEC NAVIGATOR

SPOT-D-TEK II.2 DIRECTIONAL PROBE (REPAIRABLE) COMPONENTS

Figure 13-4

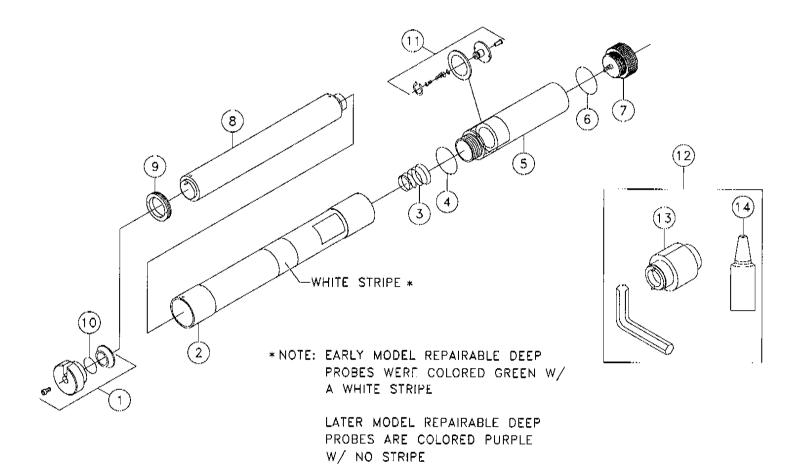


REF. NO. PART NO.		PART NO.	DESCRIPTION	<u>QTY.</u>
13-4	1	215942-003	SLOTTED HEAD ASSEMBLY	1
13-4	2	215942-005	FIBER PROBE BODY 11.2	1
13-4	3	215942-007	SPRING - SUSPENSION	1
13-4	4	215942-009	O-RING	1
13-4	5	215942-011	BATTERY COMPARTMENT ASSEM	BLY 1
13-4	6	215942-013	Q-RING	1
13-4	7	215942-015	BATTERY CAP ASSEMBLY	1
13-4	8	215942-017	SOLID STATE ELEC. CAPSULE 11.	2 1
13-4	9	215942-019	ROUND SET NUT	1
13-4	10	215942-021	O-RING	1
13-4	11	215942-023	BATTERY CONTACT ASSEMBLY	1
13-4	12	215942-025	MAINTENANCE TOOL KIT	1
13-4	13	215942-027	TOOL-CAPSULE LINE-UP	1
13-4	14	215942-029	SEALANT-SILICONE	1
		215942-001	DIR.PROBE II.2 (REPAIRABLE) (INC. ALL ITEMS IN THIS FIGURE)	

D40X40/NAVTEC NAVIGATOR (PAGE 13-5)

SPOT-D-TEK II.2 DEEP SONDE (REPAIRABLE) COMPONENTS

Figure 13-5



REF. NO. PART NO.		PART NO.	DESCRIPTION	QTY.
13-5	1	215942-003	SLOTTED HEAD ASSEMBLY	1
13-5	2	231110-003	FIBER PROBE BODY 11.2 (DEEP)	1
13-5	3	215942-007	SPRING - SUSPENSION	1
13-5	4	215942-009	O-RING	1
13-5	5	215942-011	BATTERY COMPARTMENT ASSEMB	BLY 1
13-5	6	215942-013	O-RING	1
13-5	7	215942-015	BATTERY CAP ASSEMBLY	1
13-5	8	231110-005	SOLID STATE ELECT CAPSULE 11.3	2 1
13-5	9	215942-019	ROUND SET NUT	1
13-5	10	215942-021	O-RING	1
13-5	11	215942-023	BATTERY CONTACT ASSEMBLY	1
13-5	12	215942-025	MAINTENANCE TOOL KIT	1
13-5	13	215942-027	TOOL-CAPSULE LINE-UP	1
13-5	14	215942-029	SEALANT-SILICONE	1
		231110-001	SPOT-D-TEK DEEP SONDE (REPAIR (INC. ALL ITEMS IN THIS FIGURE)	RABLE)

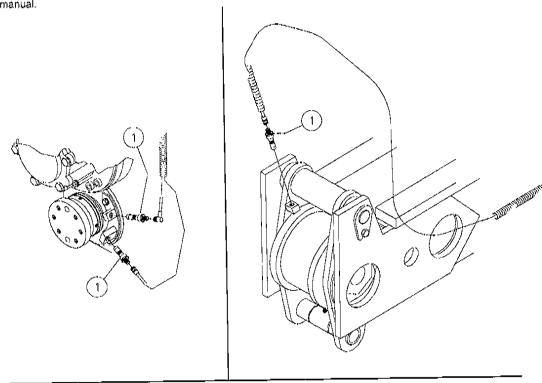
		,	

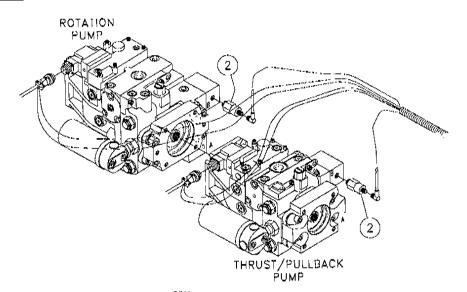
D40X40/NAVTEC NAVIGATOR (PAGE 14-1)

TRANSDUCER/SPEED SENSOR ASSEMBLY

Figure 14-1

Revised February 1999 due to addition of figure to manual.





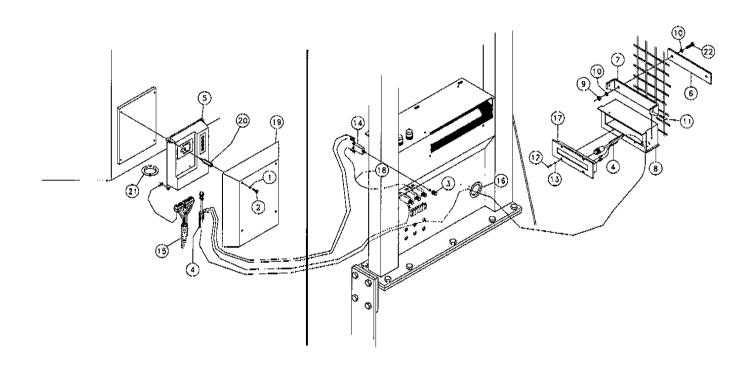
REF.	<u>NO.</u>	<u>PART NO.</u>	DESCRIPTION	<u>Q1Y.</u>
14-1 14-1	1 2		SPFED SENSOR TRANSDUCER-PRESSURE (0-6000)	3 2

(PAGE 14-2) D40X40/NAVTEC NAVIGATOR

MICROPROCESSOR ASSEMBLY

Figure 14-2

Revised July 1999 due to update in illustration & parts list. Changed/added parts marked with *.

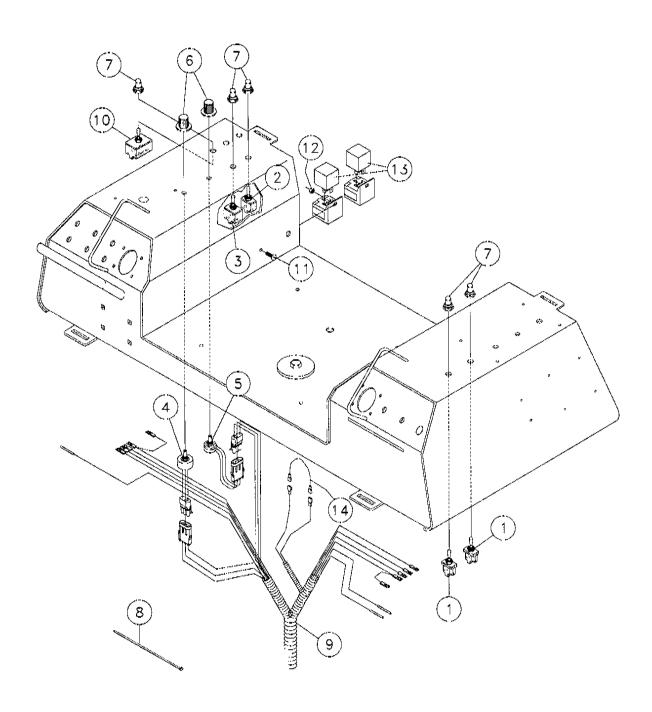


REF	. NO.	PART NO.	DESCRIPTION Q	<u>TY.</u>	REF	. <u>NO.</u>	<u>PART NŌ.</u>	DESCRIPTION	<u>QTY.</u>
14-2	1	*235716-001	WASHER-1/4 SAE HARD ZINC PLTD	4	14-2	12	533-004	SCREW-10-24X1/2 RND.HD.SLTMAG	CH 4
14-2	2	*235735-001	BOLT-1/4-20 X 1 GR 8 HEX ZINC PLTD	4	14-2	13	480-001	WASHER-3/16 S/T LOCK	4
14-2	3	89597-001	COVER-BREAKER SWITCH	1	14-2	14	72079-001	BREAKER-5 AMP	1
14-2	4	234869-001	DISPLAY HARNESS ASSY	1	14-2	15	244495-001	HARNESS-NAVTECH WIRE	1
14-2	5	234872-001	MICROPROCESSOR ASSEMBLY	1	14-2	16	212522-003	TRIM-1/4" X 10.00	1
14-2	6	234799-001	CLAMP	1	14-2	17	601422-001	DISPLAY- 2"X 24"LCD ADJUSTABLE	1
14-2	7	234756-001	BRACKET-DISPLAY	1	14-2	18	234868-001	JUMPER ASSY-12V SUPPLY	1
14-2	8	234811-001	MOUNT-DISPLAY	1	14-2	19	*244965-001	SHIELD-DC2	1
14-2	9	*235725-001	NUT-3/8-16 GR 8 ZINC PLTD	2	14-2	20	*244964-001	BOLT-STAND OFF	4
14-2	10	*235713-001	WASHER-3/8 SAE HARD ZINC PLTD	4	14-2	21	*1863-001	REIN BOTTOM CENTER	1
14-2	11	120021-001	BOLT-1/4-20 X 3/4 THUMB SCREW	2	14-2	22	*235736-001	BOLT-3/8-16X1 1/4 ZINC PLTD	2

CONTROL PANEL ASSEMBLY - NAVTEC

Figure 14-3

Revised February 1999 due to addition of figure to manual.



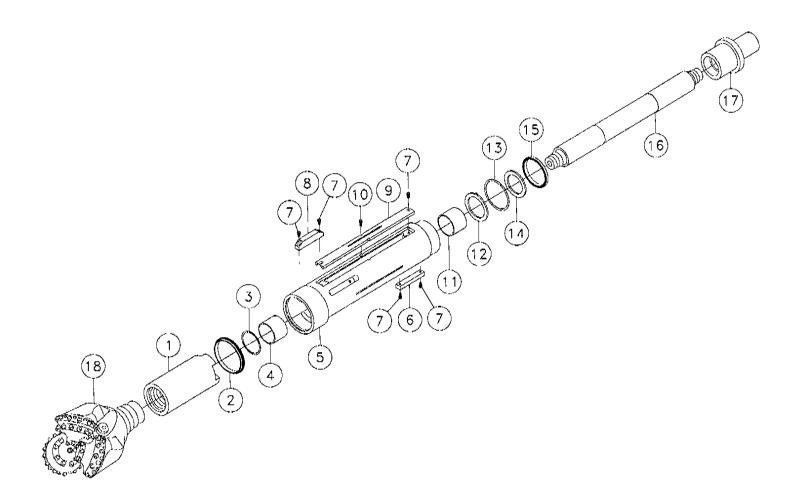
REF	N <u>Q.</u>	PART NO.	DESCRIPTION	<u>QTY.</u>	REF	NO.	<u>PART NO.</u>	DESCRIPTION	<u>QTY.</u>
14-3	1	57938-001	SWITCH-8510K2	2			58151-001	STRAP-CABLE TIE-T120R-0 15"	A/R
14-3	2	67292-001	SWITCH-TOGGLE 8500K9 SEALED	1	14-3	9	244495-001	HARNESS-NAVTECH WIRE	1
14-3	3	67293-001	SWITCH TOOGLE 8511K14 SEALED	1	14-3	10	248035-001	SWITCH-TOGGLE ON/ON 4 POLE	1
14-3	4	234865-001	STEERING POT ASSEMBLY	1	14-3	11	1802-006	BOLT-10-24 X 3/4 RND HD STOVE	1
14-3	5	234866-001	PRESSURE SET POT ASSEMBLY	1	14-3	12	400-001	NUT-3/16 NC HEX	1
14-3	6	78114-001	CONTROL KNOB #409D2K1	2	14-3	13	219137-001	RELAY-BOSCH NO/NC 20/30 AMP	2
14-3	7	5537-001	COVER-TOGGLE SWITCH	5	14-3	14	234867-001	JUMPER ASSEMBLY SEAT	1
14-3	8	59634-001	NYLON TIE 8"	A/R					

D40X40/NAVTEC NAVIGATOR (PAGE 15-1)

ROCK DRILLING HEAD ASSEMBLY

Figure 15-1

Revised February 1999 due to addition of figure to manual.



<u>BEF</u>	. NO.	PART NO.	DESCRIPTION	OTY.
15-1	1	235298-001	DRIVE SUB-LOWER	1
15-1	2	240661-001	ROD WIPER - 4 1/2 PARKER	1
15-1	3	240658-001	RETAINING RING-3.125 INTERNAL	1
15-1	4	240637-001	BEARING-ROCK HEAD FRONT	1
15-1	5	240654-001	HOUSING ASSY. (INC. REF. 4 & 11)	1
15-1	6	234943-001	SLIDER-REAR	2
15-1	7	512-006	3/8-16X3/4"SOCKET HEAD BOILT	10
15-1	8	234942-001	SLIDER-FRONT	2
15-1	9	240656-001	LID ASSEMBLY	1
15-1	10	2405 6 0-001	BOLT-5/16-18 X 3/8 SOC HD CAP	2
15- 1	11	240636-001	BEARING-ROCK HEAD REAR	1
15-1	12	234976-001	THRUST WEAR PLATE	1
15-1	13	240659-001	RETAINING RING-3.875 INTERNAL	1
15-1	14	240639-001	BEARING THRUST	1
15-1	15	240660-001	ROD WIPER- 3 1/2 PARKER	1
15-1	16	235301-001	DRIVE SHAFT - 2 5/8	1
15-1	17	235296-001	DRIVE SHAFT SUB - UPPER	1
15-1	18	240641-001	TRI CONE BIT-6 1/2"13 CARBIDE	1

								DHOX4O/NAVIE	C MAYIGA	VI OK II	VDEX (FAGE 1)
<u>FIĠ.</u>	<u>NÖ</u> .	PART NO.	FIG.	NO.	PART NO.	FIG.	NO.	PART NO.	FIG.	NO.	PART NO.
1-18	6	350-014	7-4	9	510-021	8-3	1	2107-007	1-3	22	23261-324
3-24	6	351-012	7 - 5	11	510-021	8-3	6	2108-001	1-2	39	23261-756
2-8	10	375-010	8-8	26	510-025	9-1	5	2108-001	1-4	4	23261-756
4-6	2	375-010	8-6	6	510-047	1-16	5	2108-001	1-7	10	26384-001
1-11	9	375-010	1-8	11	530-001	6-5	8	2109-003	4-1	4	26452-001
8-6	13	375-014	8-8	3	549-020	2-9	9	2165-001	4-2 4 - 3	10	26452-001 26452-001
8-8 2- 4	1 9	375-014 377-012	1-8 1-12	14 2	586-001 586-001	1-1 1-4	38 2	2326-315 2326-315	4-3 4-8	5 7	26452-001 26452-001
4-9	22	377-012	1-12	8	586-001	1-1	20	2326-324	4-1	3	26453-001
4-1	14	399-001	1-14	7	586-001	1-3	22	2326-324	4-2	9	26453-001
1-18	11	399-001	1-11	7	590-001	1-1	4	2326-595	4-3	23	26453-001
4-1	6	400-001	1-8	1	593-001	1-2	4	2326-595	4-8	6	26453-001
4-2	5	400-001	7-8	6	597-001	1-3	20	2326-595	4-2	1	27148-001
4-3	29	400-001	4-3	9	598-001	1-1	4	2326-619	4-12	5	28950-001
4-8	5	400-001	8-2 8-8	14 23	598-001 598-001	1-2 1-3	4 4	2326-619 2326-619	1-11 9-3	4 5	38884-001 51181-001
4-8 8-8	16 6	405-001 407-001	6-6	4 4	614-027	1-3	39	2326-756	9-3 4-6	4	52864-001
4-4	5	408-001	2-11	10	620-029	1-4	4	2326-756	4-6	4	52864-003
2-11	15	415-001	2-11	29	620-105	1-1	4 5	2326-940	4-6	4	52864-005
1-23	16	429-001	6-1	6	730-040	1-2	4 5	2326-940	4-6	4	52864-007
3-26	16	429-001	2-11	7	732-007	1-4	11	2326-940	4-6	4	52864-009
4-7	5	445-001	6-4	3	732-009	2-8	22	2595-001	4-3	16	53276-001
3-6	8	480-001	1-15	18	732-009	4-8	8	2595-001	4-3	16	53276-001
4-3	28	480-001 480-001	6-1 10-2	22 5	732-015 736-007	4-9 2-10	23 4	2595-007 2609-011	3-26 3-18	20 9	53653-006 53658-001
4-7 4-8	14 4	480-001 480-001	9-3	5 6	792-029	2-10	3	2609-017	3-10	7	53823-001
8-8	25	483-007	7-4	24	1081-001	4-7	20	2809-001	3-12	9	53823-001
1-8	5	483-019	7-8	3	1096-005	1-23	12	3113-009	3-21	3	53823-001
8-7	7	485-007	2-11	9	1578-001	1-23	13	3115-027	3-10	8	53824-001
7-8	11	485-017	2-8	18	1580-001	1-23	5	3211-043	3-13	7	53824-001
7-8	16	485-017	6-2	18	1580-003	4-9	8	3262-027	3-21	13	53826-001
1-5	5	485-025	2-8	1	1580-011	10-2	4	3379-001	3-8	14	53828-001
1-6	1	485-025 485-025	1-20 1-8	3 9	1706-007 1715-011	1-8 2- 9	7 8	3967-001 4017-001	3-13 3-21	2 20	53828-001 53828-001
1-6 2-4	8 10	485-025 485-025	1-20	15	1715-013	4-7	8	4153-001	3-21	8	53828-001
3-8	3	485-025	1-20	19	1715-085	3-30	7	4235-001	3-30	6	53829-001
3-9	3	485-025	1-12	5	1715-091	1-23	15	4350-001	3-14	1	53832-001
4-3	3	485-025	1-13	14	1715-091	4-8	15	4473-006	3-7	22	53835-001
4-9	21	485-025	1-14	15	1715-091	4-4	8	4474-004	3-9	12	53835-001
5-1	20	485-025	1-8	8	1716-011	4-8	9	4475-006	3-29	6	53835-001 53837-001
6-2	4 9	485-025 485-025	1-20 1-12	20 4	1716-099 1716-153	8-8 2-3	13 5	4475-012 4478-014	3-13 3-11	12 8	53842-047
6-4 6-5	10	485-025 485-025	1-13	13	1716-153	4-8	10	4536-001	3-30	17	53842-047
7-4	11	485-025	1-14	14	1716-153	1-11	10	4536-001	3-7	3	53842-089
7 - 5	17	485-025	3-24	1	1788-033	4-7	9	4542-005	3-17	3	53842-089
7-8	15	485-025	1-18	8	1789-001	1-20	14	4771-061	2-2	18	53842-281
8-2	11	485 -025	4-7	27	1789-007	4-3	19	5537-001	3-30	20	53842-291
8-8	8	485-025	8-8	10	1789-013	4-12	2	5537-001	3-32	6	53842-291
1-11	3	485-025 485-025	8-3 4-7	2 21	1794-003 1794-007	3-22 2-1	20 7	5553-001 5902-001	3-22 3-23	18 9	53843-003 53843-003
1-13 1-14	2 20	485-025	3-6	8	1802-006	1-8	12	6702-003	3-23	17	53843-031
1-15	3	485-025	4-1	10	1802-006	1-8	6	6706-001	3-23	10	53843-031
1-19	9	485-025	4-3	17	1802-006	1-6	6	6716-001	8-4	10	53843-039
1-20	30	485-025	4-7	15	1802-006	4-8	18	10530-012	8-7	13	53843-039
11-2	30	485-025	4-8	3	1802-006	1-18	10	10530-012	3-16	10	53843-057
2-11	21	485-025	4-1	5	1802-010	2-11	8	11384-001	3-19	9	53843-057
3-10	1	485-025	4-2 4-3	6 27	1802-010 1802-010	2-2 1-7	4 11	11981-001 12698-001	8-4 8-6	3 18	53843-061 53843-061
3-11 3-12	5 6	485-025 485-025	4-3 4-10	8	1803-019	1-23	14	15164-001	4-2	8	53843-133
3-14	3	485-025	1-6	11	1803-019	1-23	17	15694-001	6-1	19	53843-133
3-25	2	485-025	6-2	9	1830-059	3-20	2	16114-034	3-10	12	53843-145
3-26	15	485-025	6-5	6	1830-059	8-2	16	18150-001	3-17	13	53843-145
3-28	2	485-025	8-2	9	1835-033	1-14	2	18150-001	8-4	6	53843-163
4-10	11	485-025	1-11	6	1835-099	3-25	3	18150-001	8-7	15	53843-163
1-12	10	510-005	6-2	10	1838-001	4-10	2	20666-001	7-3	18	53843-201
1-13	6	510-005 510-005	6-5 9-1	7 12	1838-001 1838-001	4-8 1-2	13 38	21285-001 23261-315	7-7 8 - 4	4 11 ·	53843-201 53843-201
1-15 1-10	9 7	510-005 510-011	9-1 4-3	7	1865-015	1-2	38 2	23261-315	8- 6	12	53843-201
7-7	2	510-017	3-32	5	1865-055	1-2	20	23261-324	8-4	4	53843-205
				-		_					

FIG	<u>NO.</u>	PART NÖ.	FIG.	NO.	PART NO.	FIG.	NO.	PART NO.	FIG.	NO.	PART NO.
											67291-001
8-6	19	53843-205	3-7	21	53846-019	7-3	19	59401-001	3-19	6	
7-3	17	53843-215	3-29	10	53846-019	3-30	11	59401-001	4-3	18 1	67292-001 67292-001
7-7	5	53843-215	3-30	14 9	53846-059 53846-069	3-30 3-9	24 14	59407-001 59410-001	4- 12 3-7	31	67570-001
8-4	7	53843-231	3-29		53846-223	3-9 3-18	2	59410-001	3-7 3-8	24	67745-001
8-5	4	53843-231	3-7	23	53846-223	3-18	9	59410-001	3-9	20	67745-001
8-4	9	53843-233	3-9 3-7	13 6	53846-249	3-21	15	59411-001	5-9 5-1	16	67846-003
8-7	12	53843-233				3-12	28	59417-001	7-4	19	67846-003
8-8	34	53843-233 53843-237	3-29 3-21	1 1	53846-249 53846-465	3-7 3-8	28 18	59423-001	7- 4 7-5	20	67846-003
3-8	8	53843-237	3-32	13	53846-465	6-1	18	59423-001	7-6	13	67846-003
3-19	11	53843-239	3-32	9	53871-001	7-7	3	59423-001	7-7	9	67846-003
3-15 3-16	9	53843-239	3-30	1	56218-001	3-22	9	59423-001	8-6	14	67846-003
3-16	8 4	53843-251	4-1	15	57200-001	3-23	5	59423-001	8-7	10	67846-003
3-12	3	53843-253	1-23	2	57300-001	3-27	5	59423-001	8-8	19	67846-003
3-12	10	53843-253	2-8	19	57706-001	3-9	6	59426-001	3-24	7	67846-003
3-16	12	53843-253	7-3	5	57940-057	3-9	10	59426-001	7-4	20	67846-005
3-19	1	53843-253	3-30	21	57940-057	7-3	8	59426-001	7-5	21	67846-005
8-4	5	53843-257	7-3	12	57940-167	7-5	3	59426-001	7-6	14	67846-005
8-7	14	53843-257	7-6	9	57940-167	7-6	11	59426-001	7-7	10	67846-005
3-23	12	53843-257	7-3	9	57940-289	11-2	20	59426-001	8-6	3	67846-005
3-28	10	53843-257	3-22	14	57940-289	11-3	6	59426-001	8-7	11	67846-005
3-19	8	53843-325	11-2	25	57940-293	3-22	8	59426-001	8-8	37	67846-005
3-30	22	53843-325	11-3	8	57940-361	3-25	9	59426-001	2-8	15	68125-001
3-27	9	53843-395	3-9	11	57940-375	3-8	30	59928-001	3-25	10	68209-023
3-30	23	53843-395	3-18	8	57940-375	7-4	3	59928-001	1-23	1	68573-001
3-17	19	53843-539	11-3	12	57940-451	8-5	3	59928-001	1-23	8	68574-001
3-24	3	53843-539	3-17	10	57940-451	3-18	11	59928-001	1-23	4	68577-001
8-4	8	53 843-573	3-7	16	57940-467	3-12	2	60248-001	1-23	6	68578-001
8-8	29	53843-573	3-22	15	57940-467	3-30	10	60718-001	1-23	3	68579-001
3-28	5	53843-615	7-4	5	57940-479	3-31	2	60718-001	1-23	9	68580-003
3-10	11	53843-659	7-5	4	57940-479	11-2	21	60906-001	1-23	11	68581-001
3-23	11	53843-659	7-3	13	57940-485	3-23	8	60906-001	1-23	^	68582-001
3-22	19	53843-689	7-5	7 17	57940-485	3-7 3-8	5 12	60907-001 60907-001	9-1 3-8	9 6	68634-001 68774-001
3-27	2	53843-689	3-9	7	57940-501 57940-501	3-6 3-14	6	60907-001	7-4	16	68774-001
7-3 3-17	7	53843-691 53843-691	3-18 11-3	11	57940-501 57940-513	3-14	17	60907-001	11-2	24	68774-001
3-17	12 2	53843-709	7-3	14	57940-513 57940-547	3-10	5	60907-001	3-18	6	68774-001
3-11	4	53843-709	7-4	17	57940-547	3-22	5	60907-001	7-4	4	68787-001
8-8	31	53843-717	11-3	9	57940-575	3-29	4	60907-001	7-5	8	68787-001
3-17	22	53843-721	7-6	10	57940-589	3-30	5	60907-001	7-6	3	68787-001
3-24	10	53843-721	7-4	7	57940-617	3-30	8	60910-001	3-25	12	68787-001
8-8	32	53843-729	3-17	21	57940-663	8-4	2	61497-001	4-1	15	69759-001
3-13	13	53844-061	3-25	13	57940-663	3-7	9	61500-001	4-8	19	69759-001
3-21	15	53844-061	3-17	20	57940-665	3-16	6	61703-001	1-6	10	69908-001
3-14	2	53844-131	3-25	14	57940-665	3-29	5	61703-001	1-1	16	700IA-260
3-30	15	53844-131	11-2	22	57940-699	4-2	17	63579-001	1-2	16	700IA-260
3-17	4	53844-155	11-2	13	57940-715	4-8	12	64075-001	1-3	17	700IA-260
3-22	13	53844-155	3-7	10	57940-747	1-21	10	64078-025	1-1	6	7001A-262
9-1	8	53844-167	3-23	13	57940-7 4 7	1-22	10	64078-025	1-2	6	700IA-262
3-7	29	53845-007	3-7	17	579 49- 001	1-21	11	64078-027	1-3	6	700IA-262
3-12	10	53845-007	3-8	10	57950-001	1-22	11	64078-027	1-1	24	700IA-265
3-18	1	53845-041	7-3	20	57950-001	1-9	4	64109-001	1-2	24	700IA-265
3-30	19	53845-041	3-22	11	57950-001	2-2	14	64111-001	1-3	26	700IA-265
3-8	15	53845-083	3-28	4	57950-001	11-3 3-17	5	65563-001	1-1 1-2	28 28	700IA-266 700IA-266
3-30	16	53845-083	8-5	1	57967-001		7 9	65563-001	1-3	30	700IA-266
3-7	30	53845-389	3-17 3-8	5 16	57967-001 57968-001	3-28 3-9	16	65564-001 65565-001	1-3	13	700IA-266 700IA-267
3-9	15	53845-389 53845-615	3-0 8-5	5	57968-001	ა-ფ 3-13	4	65565-001	1-1	13	700IA-267
3-11 3-12	10 12	53845-615	8-6	16	57968-001	3-13	9	65565-001	1-3	14	700IA-267
3-12 3-15	5	53845-615	8-7	4	57968-001	3-17	21	65565-001	1-1	5	700IA-268
3-15 3-16	14	53845-615	8-8	12	57968-001	11-2	8	65569-001	1-2	5	700IA-268
3-16	6	53845-773	3-17	8	57968-001	11-3	7	65569-001	1-3	5	700IA-268
3-15	12	53845-773	3-20	4	57968-001	7-3	4	65570-001	1-1	9	700IA-269
3-15	8	53845-779	3-22	10	57968-001	3-25	17	65570-001	1-2	9	700IA-269
3-26	7	53845-779	3-24	4	57968-001	4-2	17	66462-001	1-3	10	7001A-269
3-9	22	53845-791	3-27	3	57968-001	2-11	25	66695-001	1-1	12	7001A-270
3-31	7	53845-791	1-23	7	58138-001	4-2	14	66816-001	1-2	12 '	700IA-270
3-7	14	53846-001	7-7	6	58295-001	3-20	5	66996-001	1-3	13	700IA-270
3-8	13	53846-001	3-23	7	58295-001	3-16	11	67291-001	1-2	11	700IA-325

FIG.	NO.	<u>PART NÓ.</u>	FIG.	NO.	PART NO.	FIG.	NO.	<u>PART NÓ.</u>	<u>FIG.</u>	<u>NO.</u>	<u>PART NO.</u>
1-3	12	700IA-325	1-2	36	7000A-510	4-2	1	70889-001	1-15	15	86104-233
1-2	33	700IA-392	1-3	38	7000A-510	3-15	18	71220-007	1-13	4	86104-363
1.3	35	700IA-392	1-1	25	7000A-741	3-26	9	71220-007	1-15	11	86104-363
1-4	6	700IA-392	1-2	25	7000A-741	3-8	9	72056-001	2-5	8	86113-001
		700IA-392 700IA-392		27	7000A-741	3-9	9	72056-001	4-8	14	86217-001
8-3	9		1-3								
1-2	32	700IA-393	1-1	34	7000A-745	3-18	12	72056-001	9-1	7	86235-001
1-3	34	700IA-393	1-2	34	7000A-745	3-22	6	72056-001	3-22	7	86235-001
1-2	31	700IA-394	1-3	36	7000 A -745	4-2	15	72079-001	4-2	16	86575-001
1-3	33	700IA-394	1-4	14	7000A-745	4-1	16	72082-001	4-3	21	86579-001
1-2	7	700IA-395	1-1	40	7000A-814	3-8	21	72895-001	4-2	3	86581-001
1-3	7	700IA-395	1-2	40	7000A-814	3-9	21	72895-001	4-8	11	86582-001
1-1	18	700IA-401	1-4	5	7000A-814	3-10	6	72895-001	3-7	1	86669-001
1-2	18	700IA-401	1-1	46	7000A-858	1-19	3	72897-001	8-4	1	88545-001
1-3	19	700IA-401	1-2	46	7000A-858	3-10	15	72898-001	3-17	2	88659-001
	29	700IA-473	1-4	12	7000A-858	3-10	14	73114-001	1-23	10	88978-001
1-1									1-23	18	88979-001
1-2	29	700IA-473	1-1	37	7000A-864	4-9	20	75382-001	-		
1-3	31	700IA-473	1-4	13	7000A-864	5-1	4	75382-001	4-1	7	89597-001
1-1	15	700IA-477	1-1	3	7000A-883	6-1	17	75493-001	4-2	4	89597-001
1-2	15	700IA-477	1-2	3	7000A-883	3-29	7	77155-001	1-9	1	90393-001
1-3	16	7001 A-477	1-3	3	7000A-883	3-32	8	77734-001	3-21	2	94161-001
1-1	14	700IA-490	1-4	3	7000A-883	2-2	19	77735-001	3-7	7	94565-001
1-2	14	700IA-490	1-1	30	7000A-975	4-2	13	77964-001	2-9	7	96072-001
1-3	15	700IA-490	1-2	30	7000A-975	3-11	11	78057-001	3-6	10	96291-001
1-1	35	700IA-509	1-3	39	7000A-975	3-12	11	78057-001	2-6	8	96424-001
1-2	35	700IA-509	1-2	41	70001-044	3-15	4	78057-001	4-3	11	97389-007
1-3	37	700IA-509	1-4	7	70001-044	2-2	20	78062-001	2-8	4	97456-001
	19	700IA-624	1-2	21	70001-098	4-3	20	78104-001	2-9	4	97456-001
1-1			1-2	43	70001-098	4-3 4-1	8				97874-003
1-2	19	700IA-624						78107-001	2-6	9	
1-3	21	700IA-624	1-4	9	70001-530	4-2	21	78107-001	1-12	13	98422-001
1-1	49	700IA-771	5-2	2	70001-530	4-3	10	78114-001	1-13	4	98422-001
1-2	49	700IA-771	1-2	42	70001-563	2-11	22	78171-001	1-15	11	98422-001
1-3	32	700IA-771	1-4	8	70001-563	3-6	9	78544-001	1-15	15	98422-001
1-1	27	700IA-804	8-3	8	7000!-563	3-7	4	79498-001	2-6	14	98436-001
1-3	29	700IA-804	1-1	41	70000-044	3-11	9	81212-001	2-1	13	98678-001
1-12	27	700IA-804	1-4	7	70000-044	3-15	14	81212-001	3-6	5	98681-001
1-1	10	700IA-807	1-1	21	70000-098	3-16	13	81212-001	4-2	11	98933-001
1-2	10	700IA-807	1-3	23	70000-098	3-10	10	81342-001	4-1	9	98937-001
1-3	11	700IA-807	10-3	13	70000-340	3-17	11	81342-001	2-11	23	99998-001
1-1	8	7001A-807	1-1	43	70000-530	3-23	6	81342-001	2-2	17	100351-001
		7001A-808	5-2	2	70000-530	3-30	13	81342-001	1-9	5	100372-001
1-2	8				70000-530	3-30				6	100488-001
1-3	8	700IA-808	17-4	9			9	81343-001	2-9	_	
1-2	37	700IA-864	1-1	42	70000-563	3-19	7	81343-001	6-4	6	100875-001
1-4	13	700IA-864	1-4	8	70000-563	4-2	2	81374-001	3-7	15	102115-001
1-1	48	700IA-966	8-3	8	70000-563	3-7	8	81581-001	2-8	17	102118-001
1-2	48	700IA-966	1-1	2	70000-614	3-6	6	81590-001	2-11	24	102995-001
1-3	40	700IA-966	1-2	2	70000-614	4-2	19	81665-001	2-2	10	102996-001
1-1	23	700IB-001	1-3	2	70000-614	3-32	7	81698-001	2-1	2	103000-001
1-2	23	700IB-001	1-1	2	70000-615	3-7	24	81704-001	2-2	3	103005-001
1-3	25	700IB-001	1-2	2	70000-615	3-8	5	81902-001	2-2	2	103006-001
1-1	26	7000A-027	1-3	9	70000-615	3-9	8	81902-001	2-2	1	103007-001
1-2	26	7000A-027 7000A-027	6-3	14	70000-675	8-8	28	82930-001	2-1	11	103011-001
			10-2	8	70000-675	3-19	10	82930-001	2-1	11	103027-001
1-3	28	7000A-027									
6-3	14	7000A-027	1-1	1	70000-775	8-5	2	82931-001	3-11	1	103058-001
1-1	11	7000A-325	1-2	1	70000-775	8-6	17	82931-001	3-12	1	103058-001
1-3	12	7000A-325	1-3	1	70000-775	3-17	6	82931-001	4-3	13	103202-001
1-1	33	7000A-392	1-1	44	70000-834	7-4	2	83015-001	2-2	11	104063-001
1-3	35	7000A-392	1-2	44	70000-834	3-8	23	83635-001	2-1	12	104067-001
1-4	6	7000A-392	1-4	10	70000-834	3-9	24	83635-001	2-1	12	104068-001
8-3	9	7000A-392	1-1	22	70000-939	3-26	5	83638-001	2-1	5	104071-001
1-1	32	7000A-393	1-2	22	70000-939	1-21	12	83651-025	2-1	6	104073-001
1-3	34	7000A-393 7000A-393	1-3	24	70000-939	1-22	12	83651-025	2-1	6	104074-001
					70000-939	1-21		84550-029	4-5	8	105400-P92
1-1	31	7000A-394	10-3	14			3				
1-3	33	7000A-394	3-12	14	70008-001	1-22	3	84550-029	4-5	9	105400-P94
1-1	7	7000A-395	3-15	11	70008-001	3-8	1	85642-163	4- 5	10	105400-P95
1-3	7	7000A-395	3-16	4	70008-001	3-9	1	8 56 42-163	2-9	11	106640-001
1-1	17	7000A-508	3-26	6	70008-001	3-7	11	85657-001	2-1	11	107606-001
1-2	17	7000A-508	3-7	2	70029-001	3-7	13	85661-001	3-30	1 2 ′	108484-001
1-3	18	7000A-508	7-6	7	70070-003	4-3	4	85790-003	2-6	9	110479-001
1-1	36	7000A-510	1-19	6	70096-001	1-12	13	86104-233	11-2	18	117452-001

FIG.	<u>.NO.</u>	<u>PART NÓ.</u>	FIG.	NO.	PART NO.	FIG.	<u>NO.</u>	PART NO.	FIG.	<u>NO.</u>	PART NO.
4-9	14	119512-001	5-2	3	210783-001	13-4	6	215942-013	4-4	7	219186-003
7-4	15	122605-001	5-2	4	210783-003	13-5	6	215942-013	4-4	10	219380-001
7-5	6	122605-001	5-2	4	210783-005	13-4	7	215942-015	2-3	6	220075-001
7-3	16	122606-001	5-2	4	210783-007	13-5	7	215942-015	2-1	1	220162-003
7-4	6	122606-001	5-2	4	210783-009	13-4	8	215942-017	2-1	3	220162-009
11-2	19	122606-001	5-2	5	210784-001	13-4	9	215942-019	2-2	7	220162-023
6-7	2	123595-001	5-2	4	210785-001	13-5	9	215942-019	2-2	6	220162-025
6-7	1 30	123596-001 131007-001	10-2 12-1	6 6	211713-001 213086-001	13-4 13-5	10 10	215942-021 215942-021	2-1 2-4	7 3	220162-039 220165-001
8-8 8 - 6	11	131007-001	12-2	6	213086-001	13-4	11	215942-023	2-12	2	220166-005
4-5	4	142410-001	12-3	6	213086-001	13-5	11	215942-023	2-12	3	220166-007
4-5	6	142423-001	12-1	6	213389-005	13-4	12	215942-025	2-12	4	220166-009
4-5	5	142954-001	12-2	6	213389-005	13-5	12	215942-025	2-9	2	220167-001
3-11	3	200873-001	12-3	6	213389-005	13-4	13	215942-027	2-1	7	220171-001
3-12	5	200873-001	12-1	5	213389-007	13-5	13	215942-027	2-4	15	220203-001
3-17	18	201482-001	12-2	5	213389-007	13-4	14	215942-029	4-4	14	220238-001
4-2	12	201793-001	12-3 12-1	5 4	213389-007 213389-009	13-5 13-2	14 4	215942-029 215943-001	1-20 1-20	9 5	220487-001 220488-001
4-4 6-2	1 21	203254-001 204721-001	12-1	4	213389-009	4-1	11	215991-001	1-20	17	220489-001
10-3	2	204933-005	12-3	4	213389-009	4-1	11	215992-001	1-20	6	220493-001
10-3	3	204933-007	12-1	1	213389-011	4-1	13	215992-001	6-3	4	220639-001
10-3	5	204933-011	12-2	1	213389-011	4-1	11	215993-001	2-2	8	220681-013
10-3	7	204933-015	12-3	1	21338 9 -011	4-1	13	21 599 3-001	2-1	7	220681-017
10-3	10	204933-021	13-1	1	213900-003	4-1	11	215994-001	2-1	7	220681-019
10-3	12	204933-023	13-1	4	213900-007	4-1	12	215995-001	2-1	7	220681-021
10-2	3	205154-003	13-1 13-2	9	213900-009	4-1 4-1	12 12	215996-001	2-1 2-1	7	220681-023 220681-025
10-2 10-2	2 1	205154-005 205154-007	13-2	3	213900-009 213900-013	4-1 4-1	12	215997-001 215998-001	2-1	2	220681-025
10-2	7	205154-007	13-1	5	213900-015	7-4	8	216447-001	2-1	3	220681-027
10-3	8	207042-001	13-1	1	213900-019	7-5	10	216447-001	9-1	10	221503-001
10-3	16	207368-001	13-1	8	213900-021	1-15	7	216547-001	9-1	11	221504-001
10-3	17	207369-001	13-2		213900-023	1-20	37	216547-001	6-6	5	221511-001
5-1	19	208065-001	13-2		213900-025	1-14	16	216591-003	10-3	6	221593-001
1-21	2	208148-001	13-2	1	213902-005	1-12	7	216596-001	10-3	4	221594-001
1-22	2	208148-001 208151-001	13-3 13-2	7	213 9 02-005 213 9 02-011	1-13 1-14	10 9	216596-001 216596-001	12-1 12-2	6 6	221643-001 221643-001
1-21 1-22	5 5	208151-001	1-9	3	214045-001	1-14	5	216620-001	12-3	6	221643-001
1-21	6	208152-001	2-10	2	214087-001	1-13	3	216658-001	12-2	7	221658-001
1-22	6	208152-001	1-20	23	214202-001	1-15	4	216667-001	12-3	7	221658-001
1-21	4	208157-001	4-7	7	214242-001	1-20	34	216667-001	12-1	6	221806-001
1-22	4	208157-001	4-9	9	214360-001	3-24	2	216681-001	12-2	6	221806-001
1-21	21	208163-001	4-3	6	215200-001	3-24	9	216682-001	12-3	6	221806-001
1-22	21	208163-001	1-20	22	215350-001	3-25	8	216695-001 216712-003	7-5	13	222426-001
1-21 1-22	22 22	208164-001 208164-001	10-3 6-1	1 13	215399-001 215426-001	1-12 1-13	1 11	216712-003	8-6 1-18	5 12	222815-001 223967-001
10-1	6	208267-001	6-3	8	215426-001	1-14	6	216713-003	7-7	7	223998-001
10-2	6	208566-001	6-1	11	215462-001	1-14	8	216720-003	1-12	14	224250-001
10-2	13	208566-003	6-2	11	215462-001	3-25	4	216722-001	1-13	16	224250-001
10-2	9	208567-001	4-12	3	215861-001	1-14	12	216723-001	1-14	19	224250-001
10-2	10	208569-001	13-1	_	215938-001	3-25	15	216724-001	1-12	8	224265-001
10-2	11	208570-001	13-1	7	215938-003	4-3	1	216741-003	1-13	9	224265-001
10-2	12	208599-001	13-2	7	215938-003	1-12	11	216742-001	1-14	10 2	224265-001 224268-001
10-3 4-3	15 12	209225-001 210082-001	13-2 13-2		215939-001 215940-001	1-13 1-15	5 10	216742-001 216742-001	3-26 1-15	14	224277-001
6-3	13	210779-001	13-2	8	215940-003	1-15	6	216747-001	3-24	5	224278-001
6-3	13	210779-005	13-1	2	215941-001	1-20	36	216747-001	3-27	11	224291-001
5-2	6	210780-001	13-2	2	215941-001	1-20	38	216748-001	3-15	3	224292-001
5-2	6	210780-003	13-1	6	215942-001	1-15	5	216749-001	2-3	4	224297-001
5-2	6	210780-005	13-2	5	215942-001	1-20	35	216749-001	1-12	3	224299-001
5-2	6	210780-007	13-4	_	215942-001	13-2		216871-001	1-13	12	224299-001
5-2	6	210780-009	13-4 13-5	1	215942-003	13-3 3-15	47	216871-001	1-14 3-16	13 3	224299-001
5-2 5- 2	6 6	210780-011 210780-013	13-5 13-4	1 2	215942-003 215942-005	3-15 3-26	17 8	217034-003 217034-003	3-16 8-8	14	224307-001 224325-001
5-2 5-2	4	210780-013	13-4	3	215942-007	3-26 4-1	1	217034-003	8-8	5	224327-001
5-2	3	210782-001	13-5	3	215942-007	1-8	10	217479-003	1-16	4	224331-001
5-2	3	210782-003	13-4	4	215942-009	5-1	13	217967-001	8-8	2	224334-001
5-2	3	210782-005	13-5	4	215942-009	4-9	19	218260-001	1-16	8 .	
5-2	3	210782-007	13-4	5	215942-011	6-3	1	219110-007	1-10	1	224356-001
5-2	3	210782-009	13-5	5	215942-011	4 -4	4	219186-001	8-8	20	224361-001

FIG.	NO.	PART NO.	FIG.	NO.	PART NO.	FIG.	NO.	PART NO.	<u>FIG.</u>	<u>NO.</u>	PART NO.
1-10	4	224369-001	2-11	1	227841-001	13-3	4	231109-001	2-1	9	234218-007
8-6	2	224394-001	8-2	7	227845-001	13-3	5	231109-003	2-1	10	234218-009
3-31	6	224400-001	8-8	7	227847-001	13-3	2	231109-005	2-1	10	234218-011
3-31	6	224400-003	3-25	7	227852-001	13-3	3	231109-007	2-2	5	234218-013
3-31	6	224400-005	3-25	6	227854-001	13-2	11	231110-001	2-2	5	234218-015
3-31	4	224404-001	2-11	16	227859-001	13-5		231110-001	2-2	5	234218-017
3-10	21	224430-001	2-11	20	227861-001	13-5	2	231110-003	2-2	8	234218-019
3-25	77	224445-001	8-8	21	227863-001	13-5	8	231110-005	2-2	9	234218-021
3-26	4	224478-001	1-10	2	227871-001	13-2		231111-001	2-2	9	234218-023
8-3	5	224479-001	8-7	1	227880-001	13-2	10	231111-003	2-2	12	234218-025
8-3	5	224479-001	8-3	3	227885-001	13-3		231113-001	2-2	13	234218-027
2-1	4	224558-009	8-2	8	227899-001	13-2		231197-001	2-2	13	234218-029
2-10	1	224846-001	8-2	4	227900-001	13-2	3	231197-003	2-4	5	234238-001
2-9	1	224847-001	8-2	3	227901-001	10-1	8 7	231200-001	8-2	1	234252-001
2-12		224847-001	8-7	6 7	227902-001 227906-001	10-1	,	231202-001 231212-001	3-32 1-17	1 3	234256-001 234277-001
2-12	1	224847-003	8-3 1-14	1	227918-001	12-1 12-2		231212-001	1-17	4	234277-001
2-12	5	224847-005 224849-001	1-14	8	227929-001	12-2		231219-001	1-17	5	234279-001
2-8 1-20	16 16	224896-250	1-18	3	227962-001	12-3		231220-001	1-17	6	234280-001
1-20	4	224896-325	2-2	16	227965-001	12-2		231221-001	7-2	3	234299-001
1-21	4	224897-001	1-18	2	227968-001	12-3		231222-001	1-10	8	234316-001
1-21	1	224897-003	1-18	9	227978-001	12-3		231223-001	1-10	6	234318-001
1-22	1	224897-003	1-18	7	227979-001	12-4	1	231224-001	4-2	20	234343-001
1-21	2	224897-005	3-26	19	227985-001	12-4	2	231228-001	2-11	6	234349-001
1-22	2	224897-005	3-26	3	227986-001	4-2	7	231248-001	2-13		234349-001
1-21	23	224897-015	8-2	17	227995-001	4-3	26	231385-001	2-11	3	234349-003
1-22	23	224897-015	3-20	1	228114-001	7-4	22	231757-001	2-13	3	234349-003
1-21	24	224897-017	1-20	26	228131-001	7-5	23	231757-001	3-27	13	234359-001
1-22	24	224897-017	1-20	12	228158-001	7-6	16	231757-001	3-27	15	234361-001
4-1	2	224922-001	1-20	28	228180-001	7-7	12	231757-001	3-17	17	234364-001
7-8	18	224922-001	1-20	27	228181-001	8-6	8	231757-001	4-11	3	234368-001
3-7	26	224938-001	1-20	18	228223-001	8-7	17	231757-001	4-11	1	234369-001 234377-001
3-10	17	224938-001	4-9 1-5	16 2	228400-001 228754-001	8-8 7-4	36 21	231757-001 231758-001	4-11 4-10	5 1	234393-001
2-2 5-2	15 4	224953-001 224979-001	5-1	5	229285-001	7 -4 7 - 5	22	231758-001	4-10	3	234394-001
2-11	2	224975-001	1-19	1	230806-001	7-6	15	231758-001	4-10	5	234395-001
5-2	4	224990-001	4-7	26	230960-001	7-7	11	231758-001	4-10	7	234408-001
5-2	4	224991-001	2-11	26	230965-001	8-6	7	231758-001	7-2	4	234412-001
2-6	3	225282-001	9-1	1	230970-001	8-7	16	231758-001	1-18	15	234418-001
3-6	11	225358-001	9-2		230970-001	8-8	35	231758-001	1-18	14	234420-001
2-10	10	225425-001	9-2	1	230970-003	10-1	2	231897-001	3-27	16	234421-003
2-8	13	225532-005	9-2	2	230970-005	10-1	1	231898-001	6-4	11	234422-001
6-2	14	225838-001	9-2	3	230970-007	10-1	5	231899-001	7-8	4	234426-003
6-2	16	225847-001	9-2	4	230970-009	10-1	4	231900-001	1-14	5	234434-003
12-2	9	226195-001	9-2	5	230970-011	10-3		231900-001	1-14	4	234436-001
12-3	9	226195-001	9-2	6	230970-013	10-3	9	231901-001	1-14	18	234452-001
12-1	6	226196-001	9-2	7	230970-015	10-3	1	231902-001	7-8	8	234462-001
12-2	6	226196-001	9-2	8	230970-017	10-3	11	231903-001	6-2	1	234473-001
12-3	6	226196-001	9-2	9	230970-019 230970-021	12-1	2	231990-001	4-11 6-2	2	234475-001 234480-001
12-2	6	226197-001 226197-001	9-2 9-1	10 2	230970-021	12-2 12-3	2	231990-001 231990-001	6-2 6-1	8 10	234491-001
12-3 12-2	6 6	226197-001	9-1	2	230974-001	12-1	2 3	231991-001	6-2	12	234491-001
12-2	6	226198-001	9-1	6	230977-001	12-2	3	231992-001	3-28	3	234498-001
12-2	6	226199-001	9-3	•	230977-001	12-2	8	231993-001	1-15	12	234499-001
12-3	6	226199-001	9-3	1	230977-003	12-2	8	231994-001	3-8	22	234780-001
12-2	6	226200-001	9-3	2	230977-005	12-3	3	231995-001	3-9	25	234780-001
12-3	6	226200-001	9-3	3	230977-007	12-3	3	231996-001	1-14	21	234816-001
4-1	13	226209-001	9-3	4	230977-009	12-3	8	231997-001	4-3	14	234876-001
4-3	15	226220-001	9-3	7	230977-011	12-3	8	231998-001	9-1	4	234966-001
6-1	8	227235-001	9-3	8	230977-013	12-3	8	231999-001	9-1	3	234967-001
8-8	11	227752-001	9-3	9	230977-015	3-11	12	232127-025	6-4	2	234978-001
2-11	4	227757-003	9-3	10	230977-017	3-12	13	232127-025	1-15	17	234978-001
2-13	1	227757-003	9-3	11	230977-019	11-2	3	232482-001	4-6	6	235256-001
2-11	5	227757-005	9-3	12	230977-021	11-2	15	232484-001	2-5	1	235283-001
2-13	2	227757-005	9-3		230977-023	2-6	6	234152-001	2-5	2	235287-001
2-11	17	227759-001	6-2	15	231049-001	5-1	6	234164-001	4-4	13	235683-001
1-16	7	227791-001	1-6	7	231104-001	5-1	14	234167-001	1-5	4 ′	
8-7	2	227814-001	1-23	^	231104-001	2-1	1	234218-003	2-4	13	235713-001
8-8	24	227815-001	13-2	6	231109-001	2-1	8	234218-005	2-5	5	235713-001

FIG.	<u>NO.</u>	<u>PART NÓ.</u>	FIG.	<u>NO.</u>	PART NO.	<u>FIG.</u>	<u>NO.</u>	PART NO.	FIG.	NO.	PART NO.
2-6	10	235713-001	1-15	13	235718-001	8-2	19	235729-001	1-22	19	235790-021
2-8	23	235713-001	11-2	17	235718-001	3-25	1	235729-001	1-21	20	235790-023
3- 6	12	235713-001	8-8	15	235720-001	3-26	1	235729-001	1-22	20	235790-023
4-4	12	235713-001	1-6	3	235721-001	7-6	4	235730-001	1-20	2	235791-001
4-6	7	235713-001 235713-001	2-4 3-8	11 4	235721-001 235721-001	6-4 6-5	10 10	235731-001 235731-001	3-13 3-21	6 10	235792-001 235792-001
4-9 5-1	2 21	235713-001	3-9	5	235721-001	8-2	13	235731-001	3-13	9	235792-001
6-2	22	235713-001	6-2	3	235721-001	2-11	19	235731-001	3-21	12	235793-001
6-3	6	235713-001	6-4	8	235721-001	3-10	22	235731-001	3-13	3	235794-001
7-2	8	235713-001	6-5	10	235721-001	4-10	9	235731-001	3-21	11	235794-001
7-3	2	235713-001	7-4	12	235721-001	2-6	5	235732-001	3-13	11	235795-001
7-8	10	235713-001	2-11	12	235721-001	2-8	24	235732-001	3-21	16	235795-001
8-2	12	235713-001	3-10	2	235721-001	4-5 5 -1	1	235732-001	3-13 3-21	8 14	235797-001 235797-001
8-6 8-7	1 18	235713-001 235713-001	3-27 4-6	14 1	235721-001 235722-001	1-17	1	235732-001 235732-001	3-13	5	235798-001
8-8	16	235713-001	7-4	26	235722-001	3-23	4	235732-001	3-21	17	235798-001
1-10	11	235713-001	8-2	2	235722-001	2-6	4	235734-001	3-13	10	235799-001
1-12	15	235713-001	8-8	22	235722-001	2-8	5	235734-001	3-21	19	235799-001
1-13	17	235713-001	2-10	8	235723-001	4-5	3	235734-001	3-6	7	235808-001
1-14	3	235713-001	2-11	11	235723-001	5-1	9	235734-001	9-1	2	235870-001
1-20	24	235713-001	2-5	7 12	235725-001 235725-001	4-7 1-17	28	235735-001 235735-001	7-8 6-6	13 6	235924-001 235967-001
2-10 2-11	9 18	235713-001 235713-001	2-6 2-8	11	235725-001	1-17	8 13	235735-001	6-3	11	236045-001
3-10	4	235713-001	3-6	4	235725-001	5-1	8	235736-001	11-2	27	236200-001
3-15	16	235713-001	4-4	11	235725-001	1-14	17	235736-001	11-2	11	236205-001
3-20	3	235713-001	4-6	5	235725-001	3-10	5	235736-001	11-2	2	236210-001
3-22	3	235713-001	5-1	12	235725-001	3-32	2	235736-001	11-2	9	236219-001
3-25	16	235713-001	6-2	23	235725-001	4-11	4	235736-001	11-2	12	236229-001
3-26	10	235713-001	6-3 8-2	7 6	235725-001 235725-001	1-5 1-6	2	235737-001 235737-001	11-2 11-2	14 29	236230-001 236232-001
3-28 3-29	8 3	235713-001 235713-001	8-6	10	235725-001	5- 1	2	235737-001	11-2	28	236232-001
3-30	3	235713-001	2-10	7	235725-001	7 - 5	18	235737-001	4-1	15	236473-001
3-31	10	235713-001	2-11	14	235725-001	8-8	27	235737-001	6-1	14	238064-001
3-32	12	235713-001	3-22	4	235725-001	1-11	2	235737-001	6-3	9	238064-001
4-11	7	235713-001	3-30	4	235725-001	1-14	22	235737-001	2-4	1	238208-001
2-9	12	235714-001	3-31	5	235725-001	3-10	24	235737-001	3-19	4	238210-001 238212-001
4-4	16	235714-001 235714-001	3-32 4-11	3 6	235725-001 235725-001	4-4 4-7	15 3	235740-001 235741-001	7-2 3-17	2 14	238212-001
4-7 4-9	6 10	235714-001	2-4	12	235726-001	4-9	11	235741-001	1-13	1	238212-001
11-3		235714-001	2-5	4	235726-001	11-3	1	235741-001	1-5	3	238220-001
3-17	15	235714-001	2-6	13	235726-001	3-17	16	235741-001	1-10	10	238220-001
3-18	5	235714-001	2-8	7	235726-001	4-10	4	235741-001	1-6	14	238221-001
3-21	7	235714-001	3-6	3	235726-001	2-9	3	235742-001	6-5	9	238221-001
4-10	10	235714-001	4-9	1	235726-001 235726-001	3-15	15	235743-001	1-16	1	238221-001 238243-001
1-6 2-4	13 2	235715-001 235715-001	7-3 1-10	11 3	235726-001	4-10 6-6	6	235744-001 235777-001	3-23 11-2	2 4	238244-001
6-1	3	235715-001	1-20	10	235726-001	1-20	21	235787-001	6-1	5	238245-001
6-5	9	235715-001	3-26	18	235726-001	1-20	13	235788-001	6-5	9	238245-001
7-5	15	235715-001	3-28	7	235726-001	1-20	1	235790-001	7-5	14	238245-001
7-6	5	235715-001	3-29	2	235726-001	1-22		235790-001	1-16	11	238245-001
1-10	9	235715-001	3-31	3	235726-001	1-21	7	235790-003	11-2	10	238245-001
1-16	10	235715-001 235715-001	1-5 2-5	4 6	235727-001 235727-001	1-22 1-21	7 8	235790-003 235790-005	2-4 4-7	6 25	238249-001 238249-001
11-2 2-6	31 5	235716-001	2-5 2-6	7	235727-001	1-22	8	235790-005	4-9	18	238249-001
2-6	11	235716-001	3-6	13	235727-001	1-21	9	235790-007	2-11	27	238249-001
2-8	6	235716-001	4-4	9	235727-001	1-22	9	235790-007	3-6	1	238534-001
4-5	2	235716-001	6-2	20	235727-001	1-21	13	235790-009	4-9	3	238589-001
4-7	29	235716-001	7-2	5	235727-001	1-22	13	235790-009	2-8	14	238600-001
5-1	10	235716-001	7-6	2	235727-001	1-21	14	235790-011	2-8	8	238601-001
1-17	7	235716-001	7-8	9	235727-001	1-22	14	235790-011	2-8	12	238636-001
1-18 3-10	16 5	235716-001 235716-001	8-2 8-7	18 3	235727-001 235727-001	1-21 1-22	15 15	235790-013 235790-013	2-8 4-8	9 1	238640-001 238646-001
3-19 3-23	5 3	235716-001	1-12	9	235727-001	1-22	16	235790-015	4-6 4-7	11	238690-001
3-23	7	235716-001	1-13	7	235727-001	1-22	16	235790-015	4-7	23	238691-001
7-8	5	235717-001	1-14	11	235727-001	1-21	17	235790-017	2-10	5	238696-001
1-15	21	235717-001	2-11	13	235727-001	1-22	17	235790-017	4-7	16	238704-001
1-20	32	235717-001	3-25	5	235727-001	1-21	18	235790-019	4-7	10 '	238717-001
11-2	7	235717-001	3-31	9	235727-001	1-22	18	235790-019	2-9	5 10	238728-001 238732-001
3-26	13	235717-001	4-3	2	235729-001	1-21	19	235790-021	2-9	10	290132*QUI

FIG.	<u>NO.</u>	PART NO.	FIG.	<u>NO.</u>	<u>PART NÓ.</u>	FIG.	<u>NO.</u>	PART NO.	<u>FIG.</u>	<u>NO.</u>	PART NO.
12-3	8	238750-001	6-2	2	244470-001	6-2	5	250512-001	3-22	16	251014-001
12-4	3	238751-001	3-21	4	244472-001	11-2	5	250512-001	3-7	18	251015-001
12-4	4	238752-001	3-32	9	244472-001	3-27	10	250512-001	3-10	9	251015-001
13-2		238762-001	3-16	16	244473-001	1-5	3	250513-001	3-8	7	251016-001
13-3		238762-001	3-32	11	244473-001	2-4	4	250513-001	3-9	7	251016-001
13-2		238763-001	3-7	25	244475-001	6-1	2	250513-001	6-1	9	251023-001
13-3		238763-001	6-4	1	244476-001	1-18	1	250513-001	6-2	13	251023-001
7 -6	8	239275-001	1-15	16	244476-001	11-2	26	250513-001	3-22	1	251033-001
6-2	7	239281-001	3-10	16	244477-001	8-2	20	250514-001	3-8	2	251034-001
1-16	6	239284-001	3-16	15	244478-001	2-4	7	250516-001	3-9	2	251035-001
1-12	12	239289-001	3-32	4	244478-001	4-9	17	250516-001 250517-001	11-2 11-3	1 10	251037-001 251042-001
7-7	1	239313-001	3-23 1-20	1 25	244480-001 244483-001	4-9 2-3	15 2	250517-001	4-3	25	251043-001
7-3	15	239314-001 239314-001	6-1	20	244484-001	2-3	3	250519-001	7-5	2	251044-001
7 -4 6-5	14 3	239339-001	6-4	4	244484-001	3-21	8	250523-001	7-4	25	251046-001
6-5 6-5	1	239348-001	4-3	8	244485-001	3-27	12	250525-001	3-15	12	251051-001
6-5	5	239358-001	3-6	2	244486-001	7-3	3	250529-001	3-31	1	251051-001
6-5	2	239360-001	3-6	2	244486-003	2-10	6	250529-001	3-8	29	251052-001
6-5	4	239374-001	1-19	7	244492-001	1-6	5	250532-001	3-16	7	251052-001
8-8	33	239421-001	1-19	8	244493-001	3-15	1	250539-001	3-8	28	251053-001
8-6	4	239442-001	7-4	13	244496-001	3-16	1	250539-001	3-16	5	251053-001
3-19	3	239443-001	7-5	16	244498-001	3-8	25	250540-001	6-4	5	251058-001
3-30	2	239445-001	4-2	18	244520-001	3-9	18	250540-001	7-5	5	251059-001
6-2	6	239454-001	3-18	10	244520-001	4-4	2	250540-001	3-21	6	251064-001
1-16	9	239458-001	3-20	8	244520-001	3-15	2	250540-001	3-22	21	251065-001
7-2	7	239462-001	3-28	6	244531-001	3-16	2	250540-001	2-7	2	251066-001 251067-001
1-16	3	239469-001	7-3	10	244599-001	3-22 6-1	2 4	250541-001 250542-001	2-7 2-7	1 4	251067-001
6-3	2 6	239477-001 239482-001	7-8 7-8	19 17	244678-001 244679-001	6-4	7	250565-001	2-7	3	251069-001
1-12 1-13	15	239483-001	3-27	6	244725-001	6-1	21	250566-001	11-3	3	251072-001
6-1	16	239494-001	3-17	1	244728-001	6-4	12	250566-001	3-21	18	251092-001
5-1	7	240056-001	4-12	4	244772-001	7-8	14	250568-001	3-32	10	251092-001
3-10	19	240061-001	13-2	12	244935-001	3-28	1	250568-001	3-14	8	251093-001
7-2	1	240333-001	4-9	7	245015-001	1-15	1	250571-001	3-22	12	251093-001
1-6	9	240334-001	11-2	23	245057-001	1-20		250571-001	2-5	3	251358-001
1-19	2	240334-001	11-2	16	245060-001	1-15	20	250572-001	2-6	15	251359-001
3-10	23	240334-001	4-7	13	245077-001	1-20	31	250572-001	2-6	1	251360-001
3-11	6	240334-001	3-29	12	246427-001	4-6	3	250573-001	2-6	16	251361-001
3-12	7	240334-001	3-29	1	246429-001	8-2	10	250573-001	2-6	2	251362-001
3-14	4	240334-001	2-8	2	246430-001	1-15	2	250573-001	4-8	21	251373-001
8-8	9	240335-001	11-3	4 2	248013-001	1-20	29 20	250573-001	4-8 4-8	20 17	251375-001 251376-001
9-1 7-4	13	240546-001 240754-001	4-7 5-1	15	248031-001 248031-001	3-10 8-8	4	250574-001 250576-001	2-8	3	251394-001
7-4 7-5	10 12	240754-001	7-4	18	248031-001	3-30	1	250583-001	2-8	21	251400-001
1-20	8	240850-001	7 - 5	19	248031-001	4-4	6	250584-001	2-8	20	251401-001
3-10	13	240860-001	7-6	12	248031-001	4-5	7	250586-001	7-3	6	600118-001
4-9	4	240880-001	7-7	8	248031-001	1-16	2	250607-001	8-6	9	600118-001
1-10	5	241065-001	8-6	15	248031-001	7-8	12	250610-001	8-7	5	600118-001
1-5	1	241653-001	8-7	9	248031-001	3-9	23	250618-001	8-8	17	600118-001
1-20	11	243031-001	8-8	18	248031-001	3-15	13	250618-001	3-15	7	600118-001
4-7	19	243776-001	4-3	22	248035-001	3-27	8	250624-001	3-19	2	600118-001
3-26	14	243905-001	4-7	30	248198-001	4-7	12	250635-001	3-20	6	600118-001
6-1	15	244050-001	3-10	3	249155-001	4-7	17	250636-001	3-27	1	600118-001
6-3	10	244050-001	7-2	6	249751-001	11-2	6	250643-001	8-7	8	601696-010 601697-030
3-7	27	244057-001	7-5	9	249752-001	7-6	1	251000-001 251005-001	8-2 3-26	21 17	601697-030
3-10	18	244057-001	1-11	1	249771-001 249786-001	7-6 3-8	6 17	251008-001	8-2	15	601698-024
7-4 7-5	1	244286-001 244286-001	2-3 7-8	2	249795-001	3-20	11	251008-001	8-2	5	601699-012
7-5 2-4	1 8	244369-001	3-10	25	249805-001	3-20	19	251009-001	5- <u>2</u> 5-1	17	900035-005
2-4	14	244371-001	4-7	4	249810-001	3-20	10	251009-001	7-4	23	900035-005
1-15	19	244391-001	1-17	2	250008-001	3-8	20	251010-001	7-5	24	900035-005
1-20	33	244391-001	4-7	24	250501-001	3-20	7	251010-001	7-6	17	900035-005
7-8	1	244394-001	2-11	28	250501-001	3-8	11	251011-001	7-7	13	900035-005
6-1	1	244460-001	3-18	4	250502-001	3-20	9	251011-001	3-24	8	900035-005
3-14	5	244461-001	3-8	26	250507-001	3-7	12	251012-001	6-5	11	901062-001
7-3	1	244462-001	3-9	19	250507-001	3-29	8	251012-001	1-7	6	901766-011
3-7	19	244464-001	4-4	3	250509-001	3-7	20	251013-001	1-7	8,	901766-013
6-1	12	244466-001	7-8	7	250510-001	3-30	18	251013-001	1-7	3	901766-015
6-3	12	244466-001	4-7	18	250511-001	3-10	7	251014-001	1-7	7	901766-017

FIG.	NO.	PART NO.
FIG. 1-7 1-7 1-7 1-7 1-7 1-6 1-9 3-18 1-6 1-5 1-5 1-5 1-5 1-8 1-8 1-18	9 1 2 4 5 12 2 3 4 4 5 5 2 2 3 4 4 5 5 2 4 5 5 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	PART NO. 901767-001 901767-003 901767-005 901767-009 901767-011 901995-001 902012-001 902013-001 902162-001 902162-001 902162-001 902162-001 902770-003 902770-003 903135-003
1-8 1-8 3-11 3-12 4-3	4 3 4 8 24	903256-001 903257-001 903382-001 903382-001 903389-001
6-3 4-9 6-3 4-1 5-1 4-9	5 3 14 18 12	903862-001 903884-001 904062-007 904346-001 904355-001
4-1 4-2 1-19 5-2 5-1 4-7	13 16 5 1 1	904423-001 904423-001 904508-001 904541-001 904548-001
4-7 4-2 6-6 6-6 6-6 5-1 6-1	22 16 1 2 3 3	904562-001 904563-001 904576-001 904577-001 904578-001 904731-001 904831-001
6-7 4-1 4-1 1-19 1-19 6-7 6-2 6-2	1 14 14 4 4 2 19	904882-001 904995-001 905001-001 905011-001 905012-001 905216-001 905429-015 905437-001
6-2	17	