

VIPAC

HA 650

The manoeuvrable roller for small jobs



- ◆ New Generation Hatz Supra Diesel Engine
- ◆ Designed in South Africa for local condition

The HA 650 is suitable for a wide range of applications such as base course, brick surfacing and asphalt course. Large water tanks for uniform sprinkling on both drums guarantee uninterrupted working.

Some features of the new generation Hatz Supra Diesel engine include:

- ◆ Pressure lubrication with gear oil pump.
- ◆ Oil sump of sheet metal.
- ◆ Emission of noise reduced to the absolute minimum.
- ◆ Economical fuel consumption.
- ◆ Easily serviced due to automatic injection pump bleeding.
- ◆ Secure and effortless starting thanks to automatic extra fuel device.



Low height and low edge clearance allows compaction close to walls and obstructions and ensure high manoeuvrability. In spite of its low basic weight the machine generates high compaction performance.



Recommended Torque specification for bolts and nuts used on VIPAC machines:

Please note that self locking NYLOCK NUTS should always be replaced by new ones and Anaerobic bonding liquids should be used on re-assembly of components i.e. bolts, screws, nuts and studs (Anaerobic liquid specifications and users instructions are available on request.

Following tensile strength might be used on bolts:

8.8 = 8 G
 10.9 = 10 K
 12.9 = 12 K

BOLT SIZE	TORQUES Nm (ft lbs)		
	8.8	10.9	12.9
M5	6 (4)	8.5 (6)	10 (7)
M6	10 (7)	15 (11)	18 (13)
M8	25 (18)	35 (26)	45 (33)
M10	50 (27)	75 (55)	85 (63)
M12	90 (66)	125 (92)	150 (111)
M16	215 (159)	305 (225)	365 (269)

When tightening bolts and nuts always use a torque wrench.

MACHINE DIMENSIONS

Basic Weight (Empty Tanks)	620 Kg
Overall Length	2170 mm
Overall Width	780 mm
Overall Height	1100 mm
Width of Drums	650 mm
Watertank Capacity	60 Litres

OPERATION AND LUBRICATION GUIDELINES ON THE VIPAC HA390S/P, HA650, HA630, HA760 AND HA900

OPERATION

When starting, open the Black Knob to maximum forward position. Lift decompression lever all the way and start with crank handle. When engine has started, move black knob to centre position. Let idle for at least 5 minutes or until the tappet cover feels hot under your hand. You are now ready to start work.

For Travel:

Push speed control to high speed and push red knob to **maximum** forward position. For reverse, **maximum** rear position.

For Vibration Forward and Reverse:

Speed control in slow, push both the black and the red knobs **maximum** forward and for reverse, speed control in slow, push black knob **maximum** forward and the red knob **maximum** to the rear.

Note: There is a neutral position between the fast and slow.

MAINTENANCE

- Check engine oil twice daily.
- Never overfill engine or gearbox.
- Check drive belts to gearbox weekly and adjust when necessary.
- Do not force speed lever.

OIL

Engine	15W40 Series 3 Engine Oil
Gearbox	15W40 Series 3 Engine Oil
Final Drive	EP140

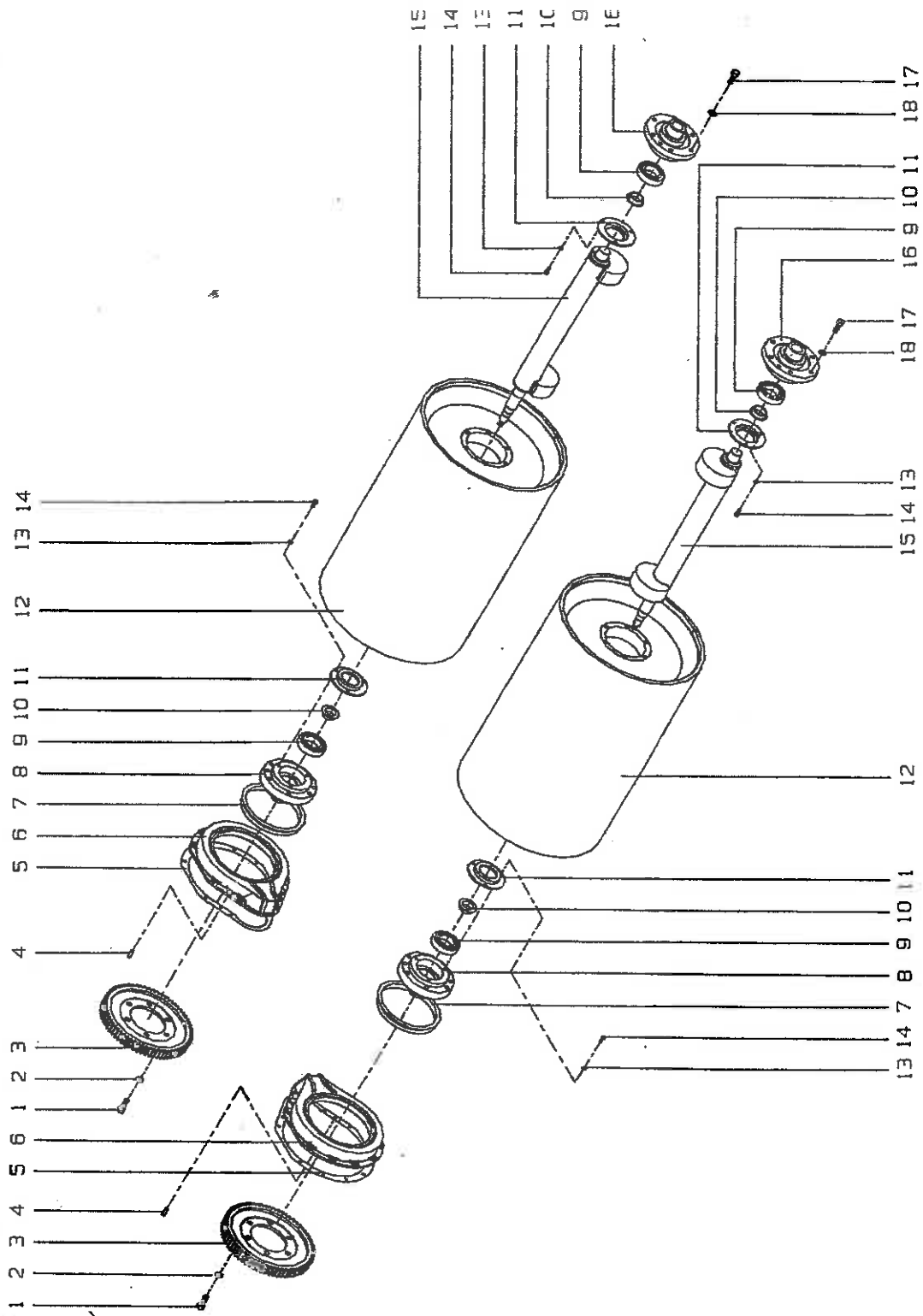
HINTS

- Only drain oil when hot.
- Park machine a slight (2°) angle when draining oil.
- Relube drive gears bi-annually. (Not on HA390 and HA900)
- Do sediment drain monthly.

INDEX

650 - 10	.....	Roller Drums
650 - 20	.....	Sideplate Lefthand
650 - 30	.....	Sideplate Righthand
650 - 31	.....	Drive Shaft
650 - 32	.....	Centrifugal Clutch
650 - 40	.....	Frame & Gearbox
650 - 41	.....	Drive Control
650 - 42	.....	Gas Control
650 - 43	.....	Safety Handle
250 - 44	.....	Safety Control
250 - 50	.....	Gearbox
250 - 51	.....	Pinion Shaft
250 - 52	.....	Disc Clutch
250 - 53	.....	Dipstick Modification
650 - 60	.....	Engine
650 - 61	.....	Fieldmarshal Engine

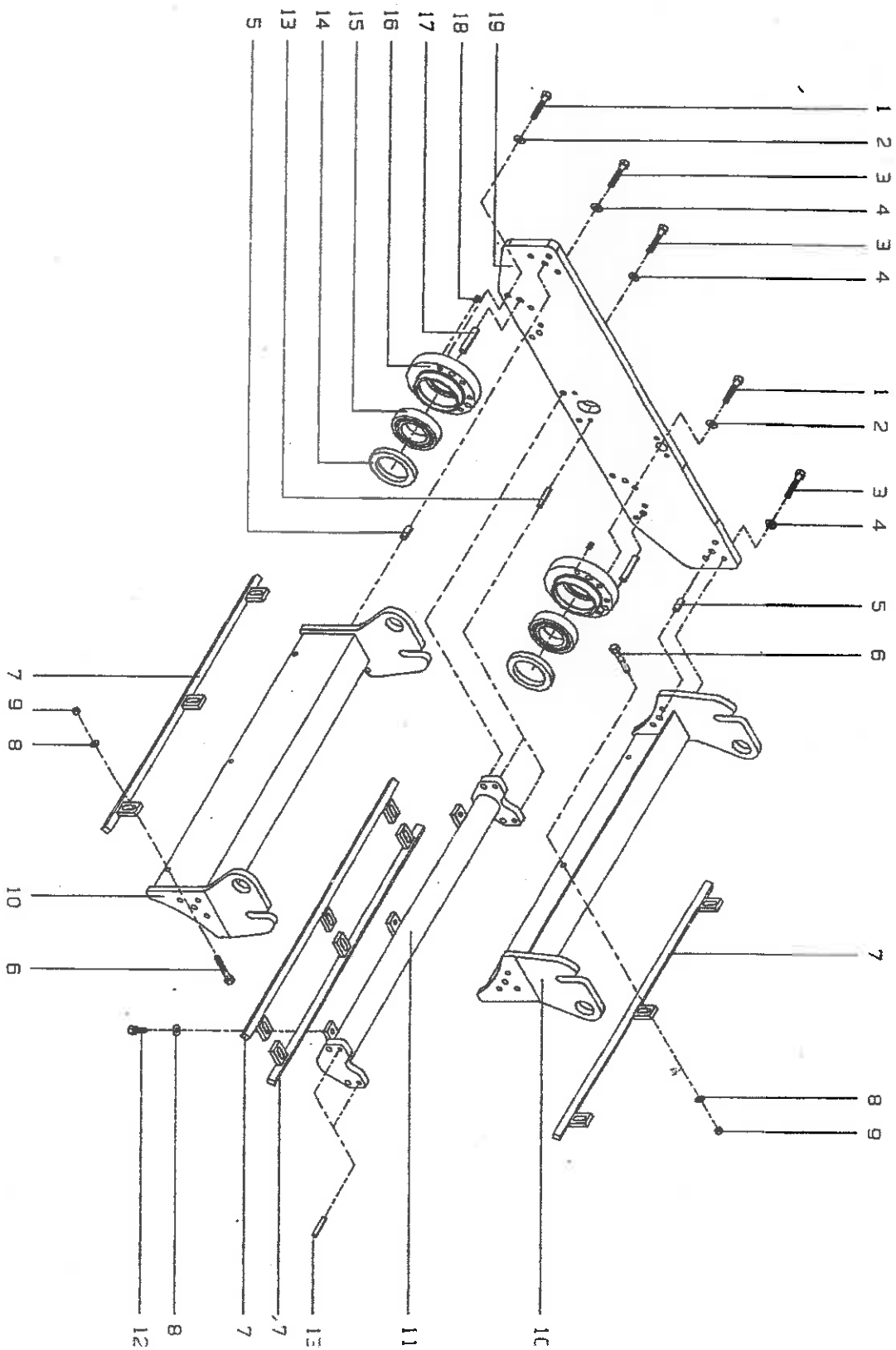
650 - 10 ROLLER DRUMS



650 - 10**ROLLER DRUMS**

650 - 10 - 1	Hex Bolt	12	V17131024
650 - 10 - 2	Schnorr Washer	12	V15531016
650 - 10 - 3	Gear	2	V65010800
650 - 10 - 4	Tightening Sleeve	4	V19160807
650 - 10 - 5	Gasket	1	V65030104
650 - 10 - 6	Protection Cover	2	V65010503
650 - 10 - 7	Sliding Gasket	2	V16260017
650 - 10 - 8	Bearing Flange	2	V65010601
650 - 10 - 9	Cyl Roller Bearing	4	V15223253
650 - 10 - 10	Distance Ring	4	V65010404
650 - 10 - 11	Bearing Cover	4	V65010203
650 - 10 - 12	Roller Drum	2	V65010501
650 - 10 - 13	Schnorr Washer	12	V15530813
650 - 10 - 14	SHC Screw	12	V17230809
650 - 10 - 15	Vibrator Shaft	2	V65010405
650 - 10 - 16	Bearing Flange	2	V65010201
650 - 10 - 17	Hex Bolt	12	V17141032
650 - 10 - 18	Schnorr Washer	12	V15531016

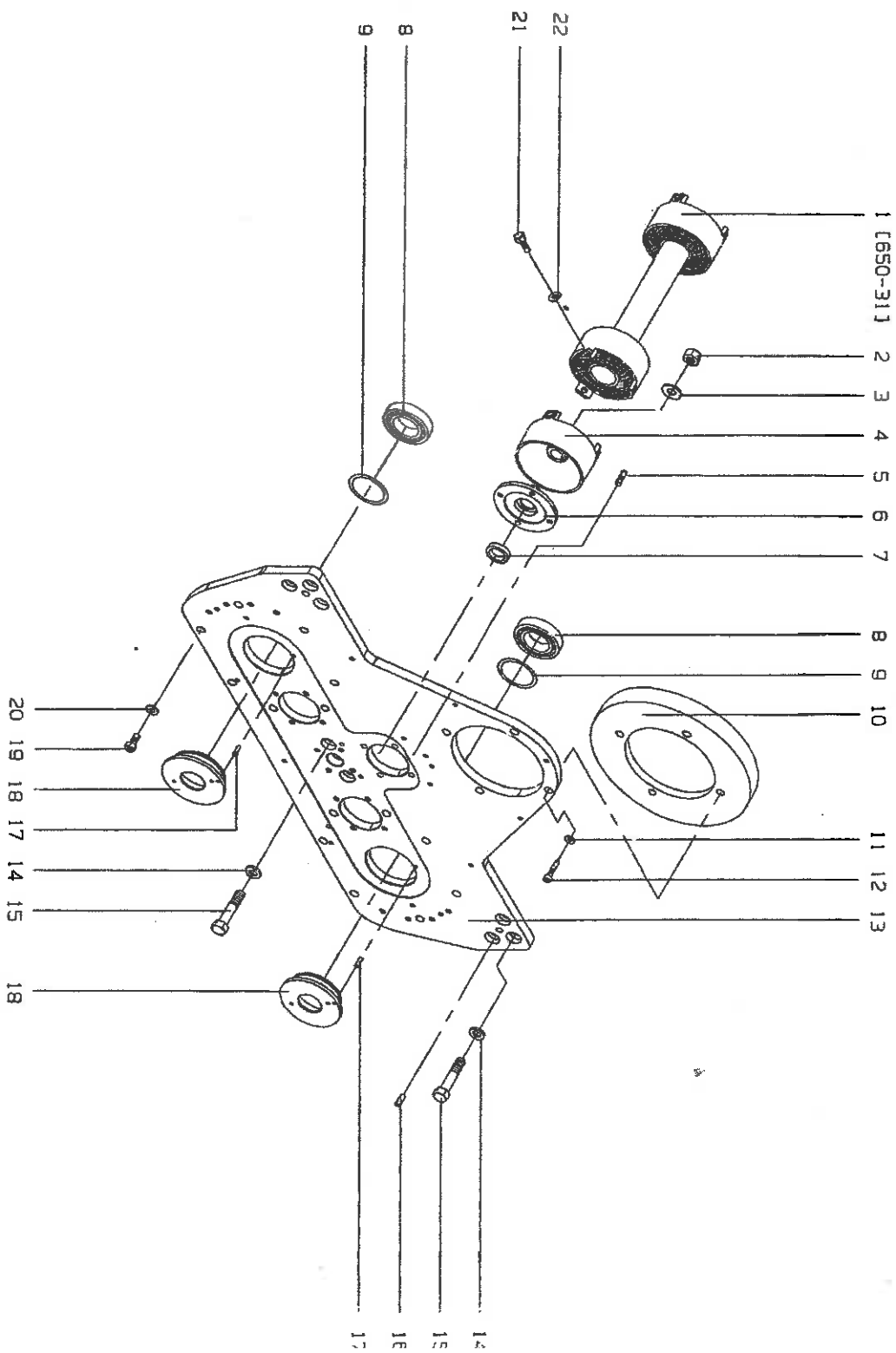
650 - 20 SIDEPLATE LEFTHAND



650 - 20**SIDEPLATE LEFTHAND**

650 - 20 - 1	Hex Bolt	8	V17141032
650 - 20 - 2	Schnorr Washer	8	V15531016
650 - 20 - 3	Hex Bolt	8	V17141024
650 - 20 - 4	Schnorr Washer	8	V15531016
650 - 20 - 5	Spiral Expanding Pin	2	V15981330
650 - 20 - 6	Hex Bolt	6	V17141028
650 - 20 - 7	Scraper	4	V65020401
650 - 20 - 8	Disc	12	V18752105
650 - 20 - 9	NYlock Nut	6	V18131016
650 - 20 - 10	Outer Cross Piece	2	V65020305
650 - 20 - 11	Inner Cross Piece	1	V65020205
650 - 20 - 12	Hex Bolt	6	V17141024
650 - 20 - 13	Tightening Sleeve	4	V19160807
650 - 20 - 14	Oil Seal	2	V19313814
650 - 20 - 15	Cyl Roller Bearing	2	V15223270
650 - 20 - 16	Bearing Housing	2	V65020102
650 - 20 - 17	Spiral Expanding Pin	4	V15981345
650 - 20 - 18	Threading Pin	4	V17540804
650 - 20 - 19	Sideplate Small L/H	1	V65020103

650 - 30 SIDEPLATE RIGHTHAND



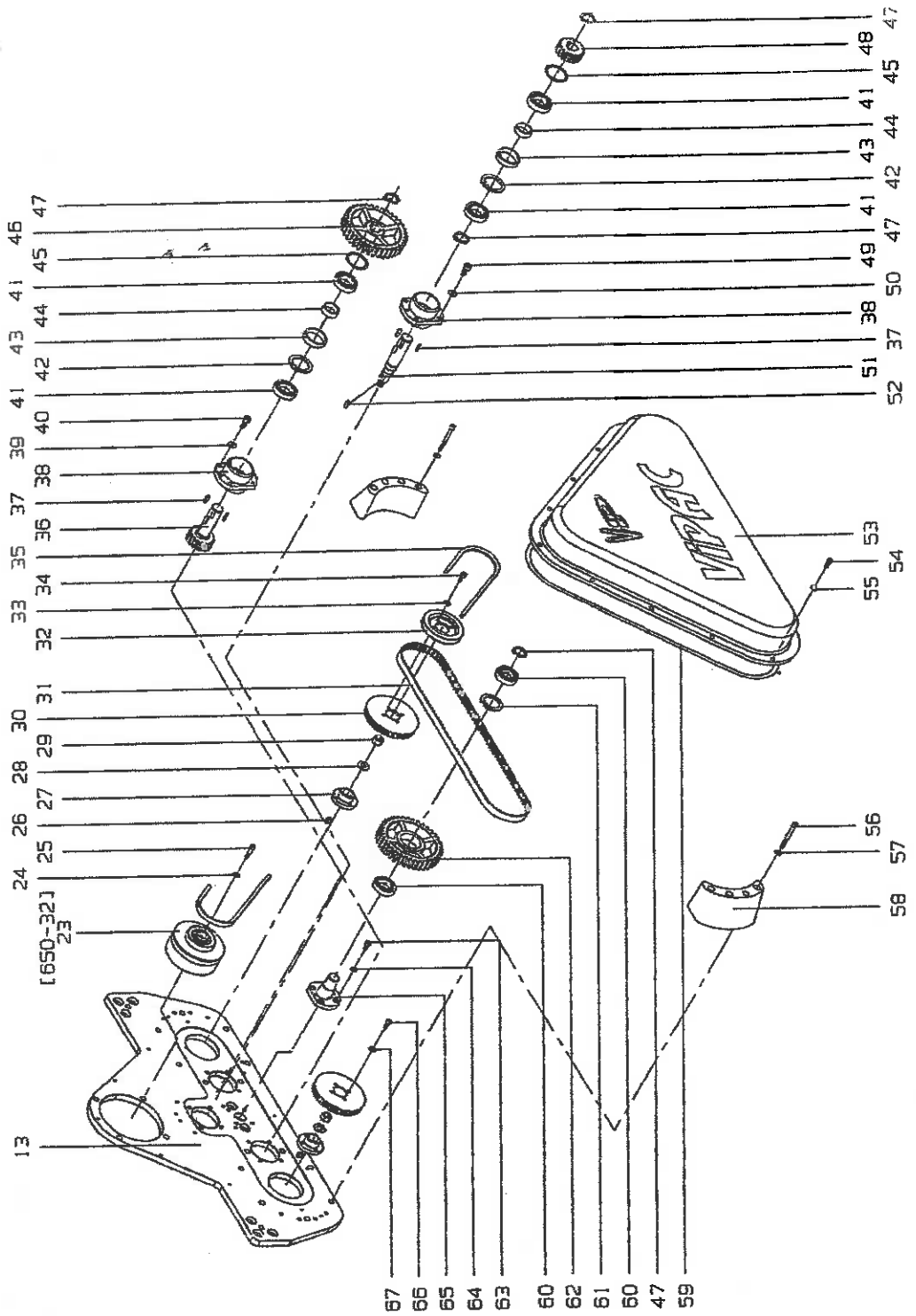
650 - 30**SIDEPLATE RIGHTHAND**

650 - 30 - 1	Drive Shaft Complete	1	V65030605
650 - 30 - 2	Safety Nut	1	V18181161
650 - 30 - 3	Flat Washer	1	V18511730
650 - 30 - 4	Coupling Flange	1	V21030604
650 - 30 - 5	Threaded Pin	4	V17540804
650 - 30 - 6	Supporting Ring	1	V21030302
650 - 30 - 7	Oil Seal	1	V19311911
650 - 30 - 8	Cyl Roller Bearing	2	V15223270
650 - 30 - 9	Spring Ring	2	V15471095
650 - 30 - 10	Rubber Cover	1	V21030605
650 - 30 - 11	Schnorr Washer	4	V15530813
650 - 30 - 12	SHC Screw	4	V17230809
650 - 30 - 13	Sideplate Big R/H	1	V65030105
650 - 30 - 14	Schnorr Washer	8	V15531016
650 - 30 - 15	Hex Bolt	8	V17141024
650 - 30 - 16	Spiral Expanding Pin	2	V15981330
650 - 30 - 17	Tightening Sleeve	2	V19150605
650 - 30 - 18	Bearing Bush	2	V65030102
650 - 30 - 19	SHC Screw	14	V17230809
650 - 30 - 20	Schnorr Washer	14	V15530813
650 - 30 - 21	Hex Bolt	6	V17141016
650 - 30 - 22	Schnorr Washer	6	V15531016

650 - 30**SIDEPLATE RIGHTHAND**

650 - 30 - 23	Centrifugal Clutch	1	V15650052
650 - 30 - 24	Schnorr Washer	1	V15531218
650 - 30 - 25	SHC Screw	1	V17231233
650 - 30 - 26	Fitting Key	2	V19181604
650 - 30 - 27	Hub	2	V21030501
650 - 30 - 28	Flat Washer	2	V18511730
650 - 30 - 29	Safety Nut	2	V18181161
650 - 30 - 30	T Belt Pulley	2	V65030502
650 - 30 - 31	T Belt	1	V16321216
650 - 30 - 32	V Belt Pulley	1	V65030505
650 - 30 - 33	Schnorr Washer	4	V15530813
650 - 30 - 34	SHC Screw	4	V17230809
650 - 30 - 35	V Belt	1	V16312227
650 - 30 - 36	Pinion Shaft	2	V65030208
650 - 30 - 37	Fitting Key	9	V19181604
650 - 30 - 38	Bearing Housing	3	V21030201
650 - 30 - 39	Schnorr Washer	8	V15531016
650 - 30 - 40	SHC Screw	8	V17231013
650 - 30 - 41	Steep Angle Bearing	6	V15121006
650 - 30 - 42	Inner Circlip	3	V19223400
650 - 30 - 43	Ring	3	V21030206
650 - 30 - 44	Ring	3	V21030207

650 - 30 SIDEPLATE RIGHTHAND (Continued)

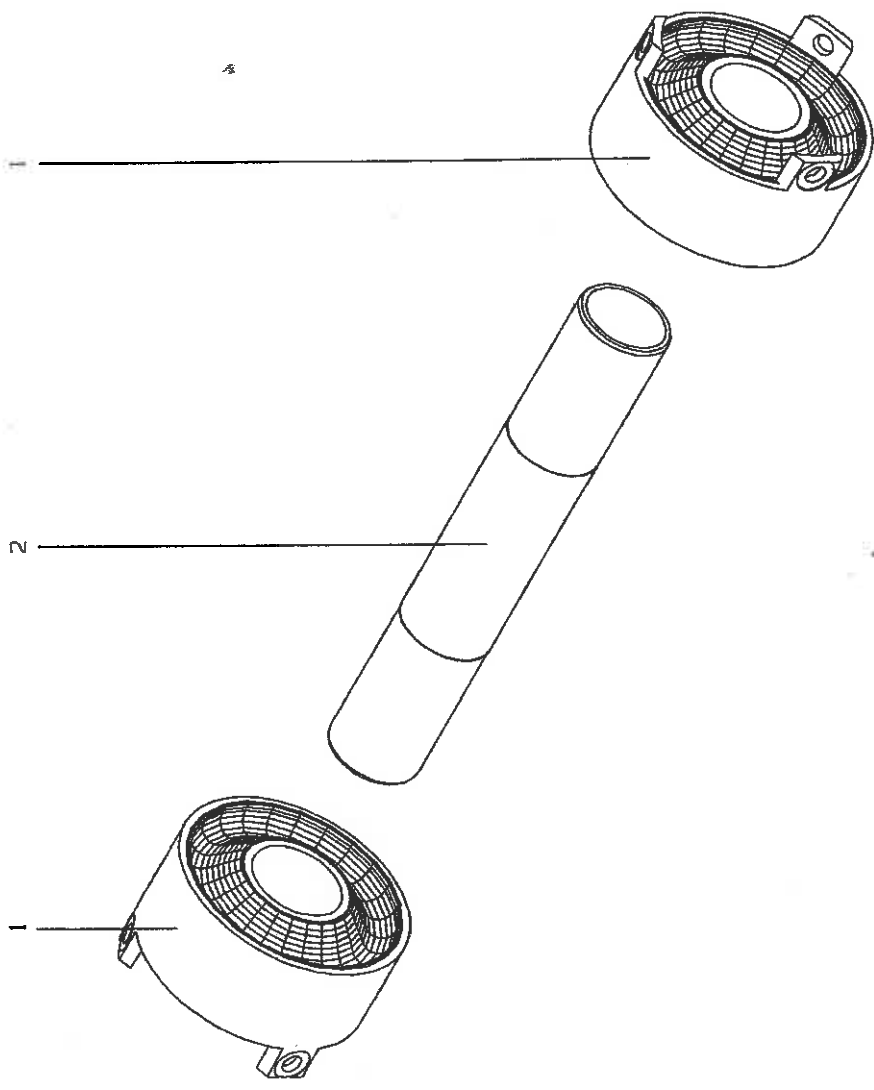


SIDEPLATE RIGHTHAND (Continued)

650 - 30

650 - 30 - 45	Nilos Ring	3	V15331242
650 - 30 - 46	Gear	2	V65030608
650 - 30 - 47	Outer Circlip	5	V19211800
650 - 30 - 48	Gear	1	V65030610
650 - 30 - 49	SHC Screw	4	V17231025
650 - 30 - 50	Schnorr Washer	4	V15531016
650 - 30 - 51	Coupling Shaft	1	V21030303
650 - 30 - 52	Fitting Key	1	V19181704
650 - 30 - 53	Protection Box	1	V65030705
650 - 30 - 54	SHC Screw	10	V17230817
650 - 30 - 55	Schnorr Washer	10	V15530813
650 - 30 - 56	SHC Screw	8	V17231061
650 - 30 - 57	Schnorr Washer	8	V15531016
650 - 30 - 58	Bumper Bracket	2	V21030801
650 - 30 - 59	String	1	V16520049
650 - 30 - 60	Ball Bearing	2	V15113306
650 - 30 - 61	Inner Circlip	1	V19223300
650 - 30 - 62	Gear	1	V65030609
650 - 30 - 63	SHC Screw	4	V17231013
650 - 30 - 64	Schnorr Washer	4	V15531016
650 - 30 - 65	Axle	1	V21030402
650 - 30 - 66	SHC Screw	4	V17230801
650 - 30 - 67	Schnorr Washer	4	V15530813

650 - 31 DRIVESHAFT

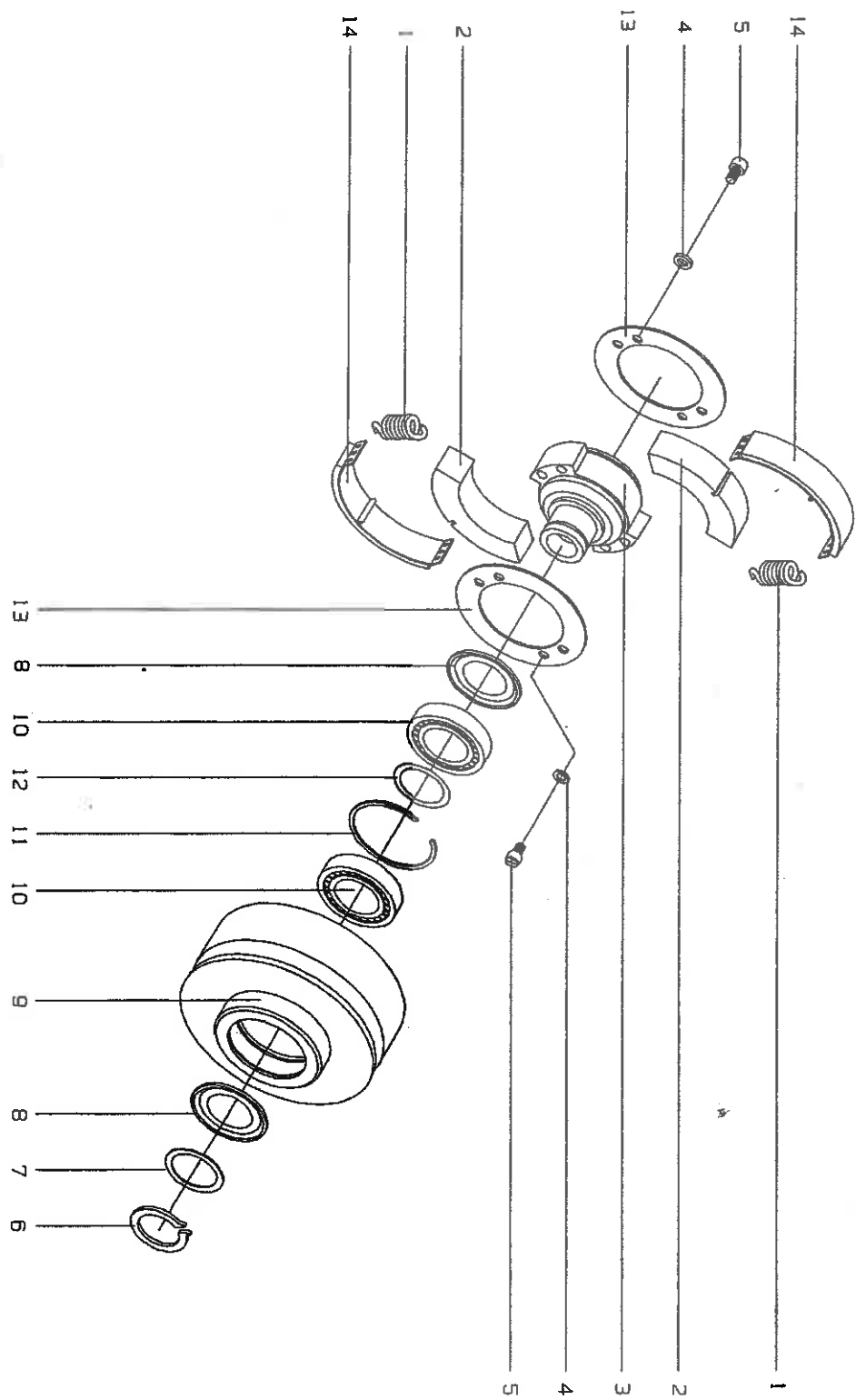


DRIVESHAFT

650 - 31

650 - 31 - 1	Rubber Coupling	2	V21030607
650 - 31 - 2	Tube	1	V65030606

650 - 32 CENTRIFUGAL CLUTCH

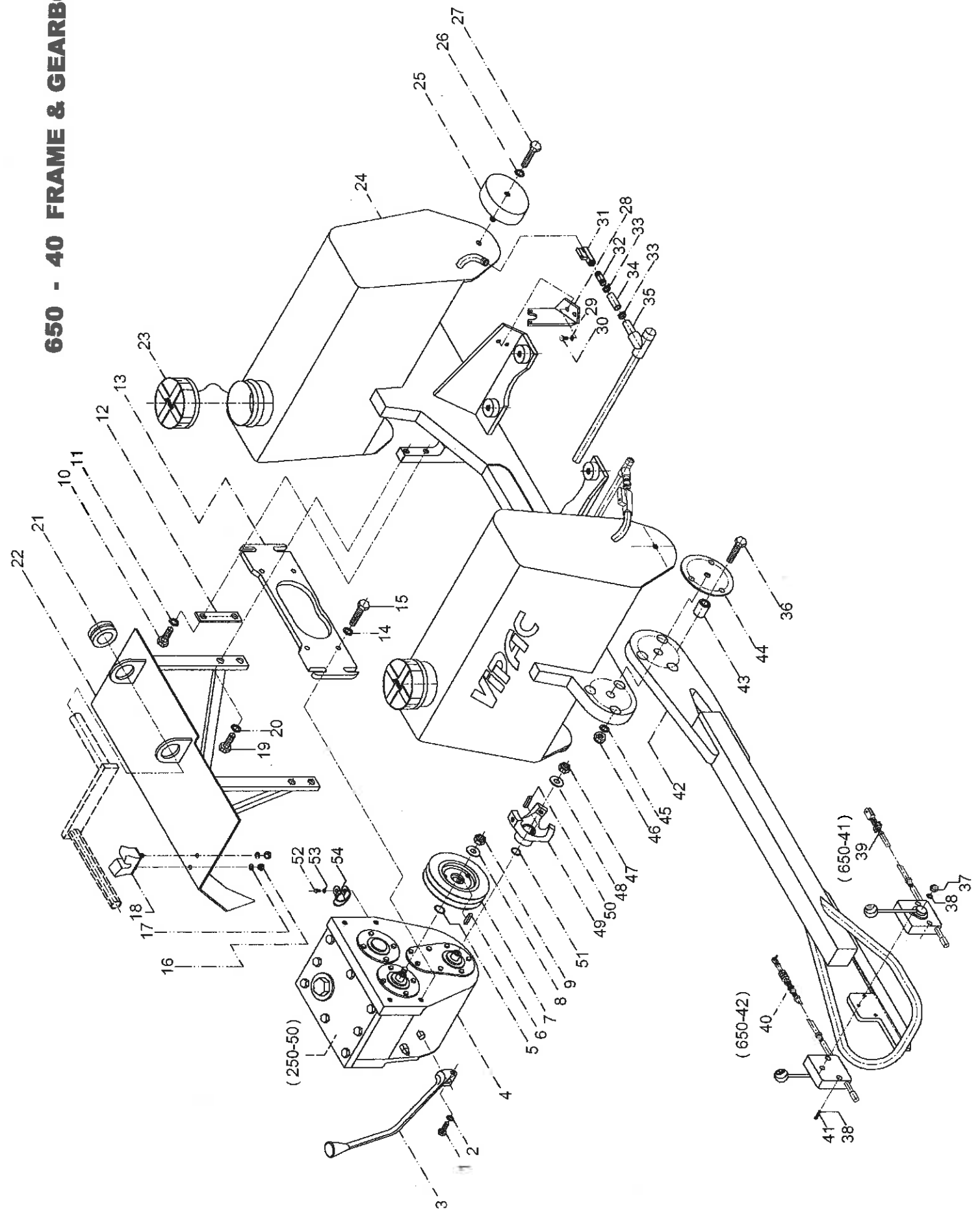


650 - 32**CENTRIFUGAL CLUTCH**

1)	650 - 32 - 1	Spring	4	V15660324
	650 - 32 - 2	Centrifugal Weight	2	V15660105
	650 - 32 - 3	Hub	1	V15660405
	650 - 32 - 4	Schnorr Washer	8	V15530610
	650 - 32 - 5	Cheeshead Screw	8	V17210604
	650 - 32 - 6	Outer Circlip	1	V19211800
	650 - 32 - 7	Clamping disc	1	V15660605
	650 - 32 - 8	Nilos Ring	2	V15331242
	650 - 32 - 9	V Belt Pulley	1	V15660505
	650 - 32 - 10	Ball Bearing	2	V15114406
1)	650 - 32 - 11	Inner Circlip	1	V19223400
	650 - 32 - 12	Disc	2	V15521210
	650 - 32 - 13	Lock Disc	2	V15660705
1)	650 - 32 - 14	Lining Strap	2	V15660205
	650 - 32 - 15	Repair Kit	1	V15650057

1) Including Repair Kit

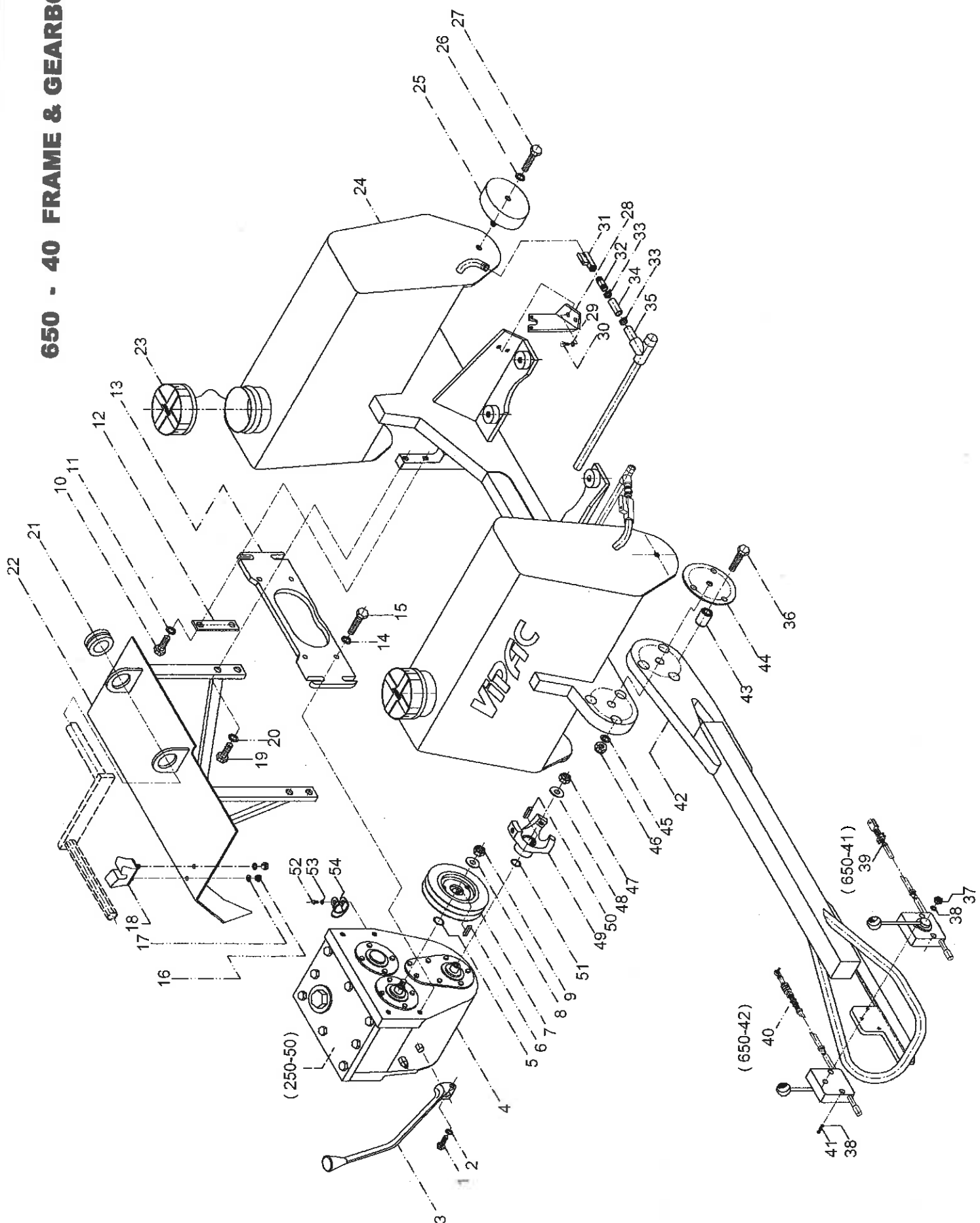
650 - 40 FRAME & GEARBOX



650 - 40**FRAME & GEARBOX**

650 - 40 - 1	Hex Bolt	1	V17141032
650 - 40 - 2	Schnorr Washer	1	V15531016
650 - 40 - 3	Gear Lever	1	V25050912
650 - 40 - 4	Gearbox Complete	1	V25050000
650 - 40 - 5	O Ring	1	V16220195
650 - 40 - 6	Fitting Key	1	V19181302
650 - 40 - 7	V Belt Pulley	1	V21050904
650 - 40 - 8	Disc	1	V18711324
650 - 40 - 9	Nylock Nut	1	V18131218
650 - 40 - 10	Hex Bolt	4	V17141236
650 - 40 - 11	Schnorr Washer	4	V15531218
650 - 40 - 12	Square Plate	2	V21060402
650 - 40 - 13	Gearunit Holder	1	V21060201
650 - 40 - 14	Schnorr Washer	4	V15531016
650 - 40 - 15	Hex Bolt	4	V17141016
650 - 40 - 16	Nylock Nut	2	V18130611
650 - 40 - 17	Schnorr Washer	2	V15530610
650 - 40 - 18	Clamping Device	1	V21081303
650 - 40 - 19	Hex Bolt	4	V17141224
650 - 40 - 20	Schnorr Washer	4	V15531218
650 - 40 - 21	Grommet	2	V21045402
650 - 40 - 22	Guide Cover	1	V21081300

650 - 40 FRAME & GEARBOX

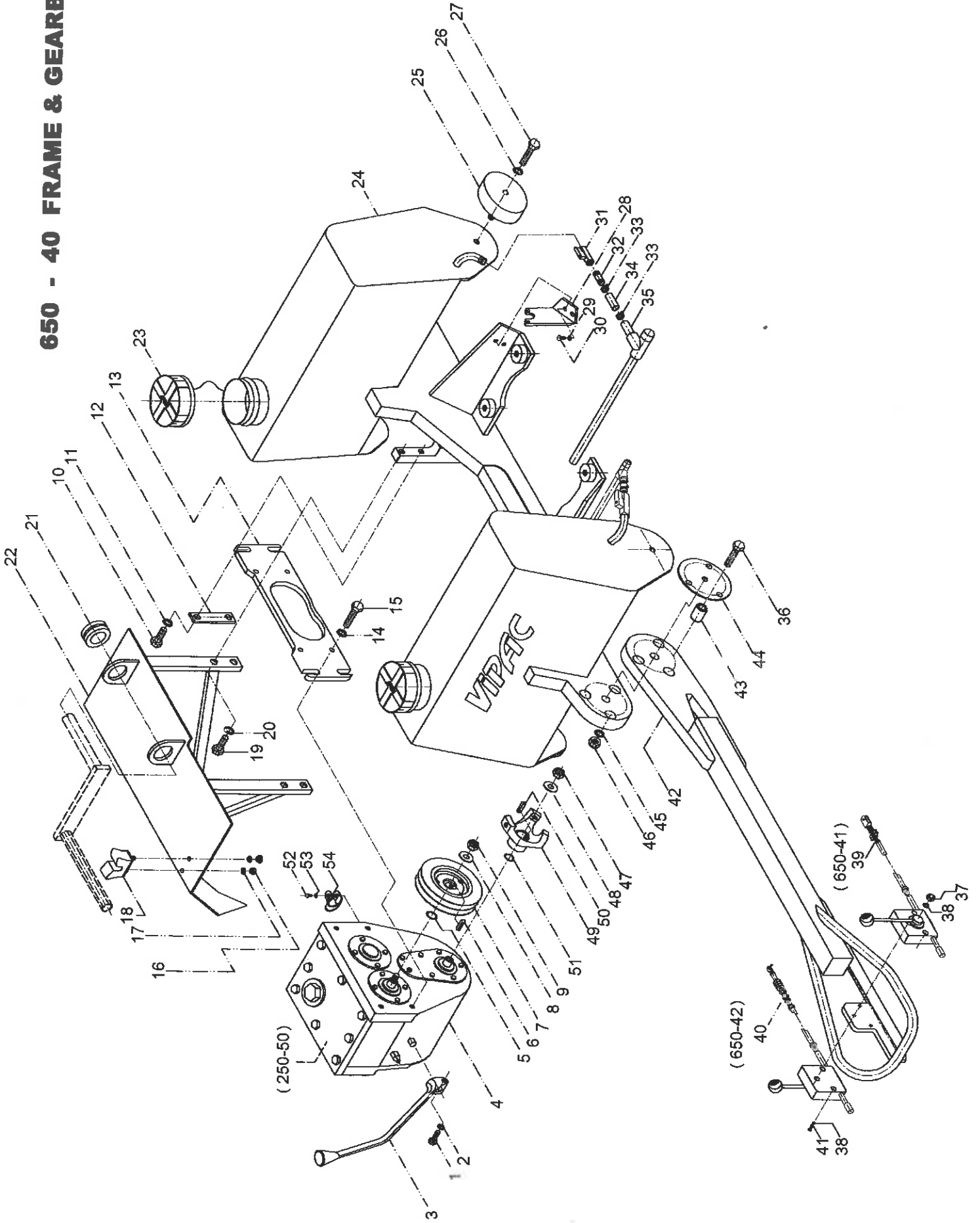


650 - 40**FRAME & GEARBOX**

650 - 40 - 23	Rubber Cap	2	V21092605
650 - 40 - 24	Frame	1	V65040101
650 - 40 - 25	Rubber Buffer	4	V16128813
650 - 40 - 26	Disc	4	V18591740
650 - 40 - 27	Hex Bolt	4	V17141636
650 - 40 - 28	Support	1	V65090106
650 - 40 - 29	Schnorr Washer	2	V15530813
650 - 40 - 30	Hex Bolt	2	V17140824
650 - 40 - 31	Water Tap	2	V19510005
650 - 40 - 32	Nipple	2	V19510006
650 - 40 - 33	Hose Clamp	4	V15551409
650 - 40 - 34	Hose	2	V19510007
650 - 40 - 35	Nozzle Tube	2	V65040703
650 - 40 - 36	Hex Bolt	4	V17131228
650 - 40 - 37	Nylock Nut	3	V18130611
650 - 40 - 38	Flat Washer	6	V18510612
650 - 40 - 39	Drive Control Complete	1	V65060610
650 - 40 - 40	Gas Control Complete	1	V21060620
650 - 40 - 40	Gas Control Complete	1	V65060620
650 - 40 - 41	Hex Bolt	3	V17130656
650 - 40 - 42	Steering Rod	1	V65040201
650 - 40 - 43	Rubber Bush	4	V21040203
650 - 40 - 44	Disc	1	V65040206
650 - 40 - 45	Schnorr Washer	4	V15531218
650 - 40 - 46	Nylock Nut	4	V18131218

1)

650 - 40 FRAME & GEARBOX

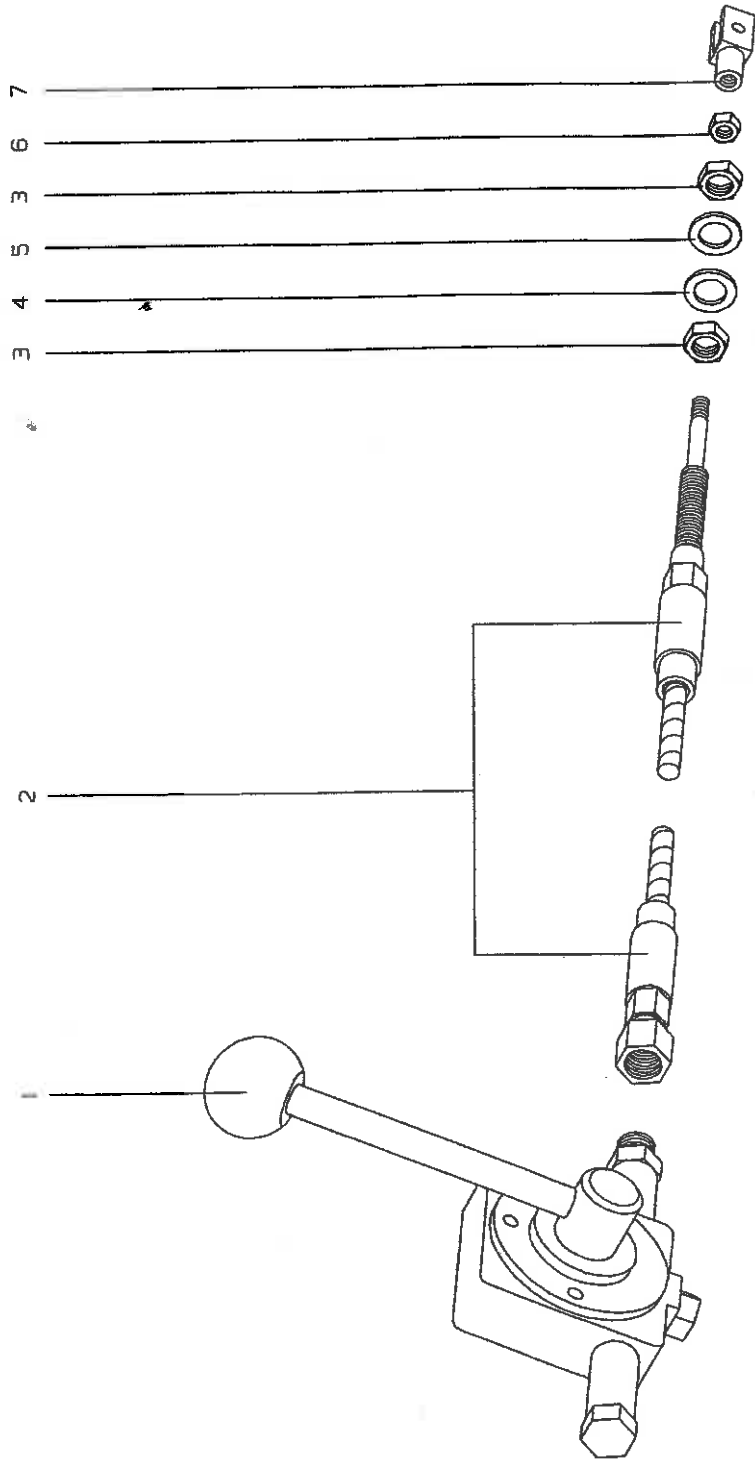


650 - 40**FRAME & GEARBOX**

650 - 40 - 47	Safety Nut	1	V18181161
650 - 40 - 48	Disc	1	V18711730
650 - 40 - 49	Coupling Flange	1	V21050901
650 - 40 - 50	Fitting Key	1	V19181702
650 - 40 - 51	O Ring	1	V16220254
650 - 40 - 52	Hex Bolt	1	V17140816
650 - 40 - 53	Schnorr Washer	1	V15530813
650 - 40 - 54	Tube Clip	1	V15551908

1) For machines fitted with Fieldmarshal
Engine

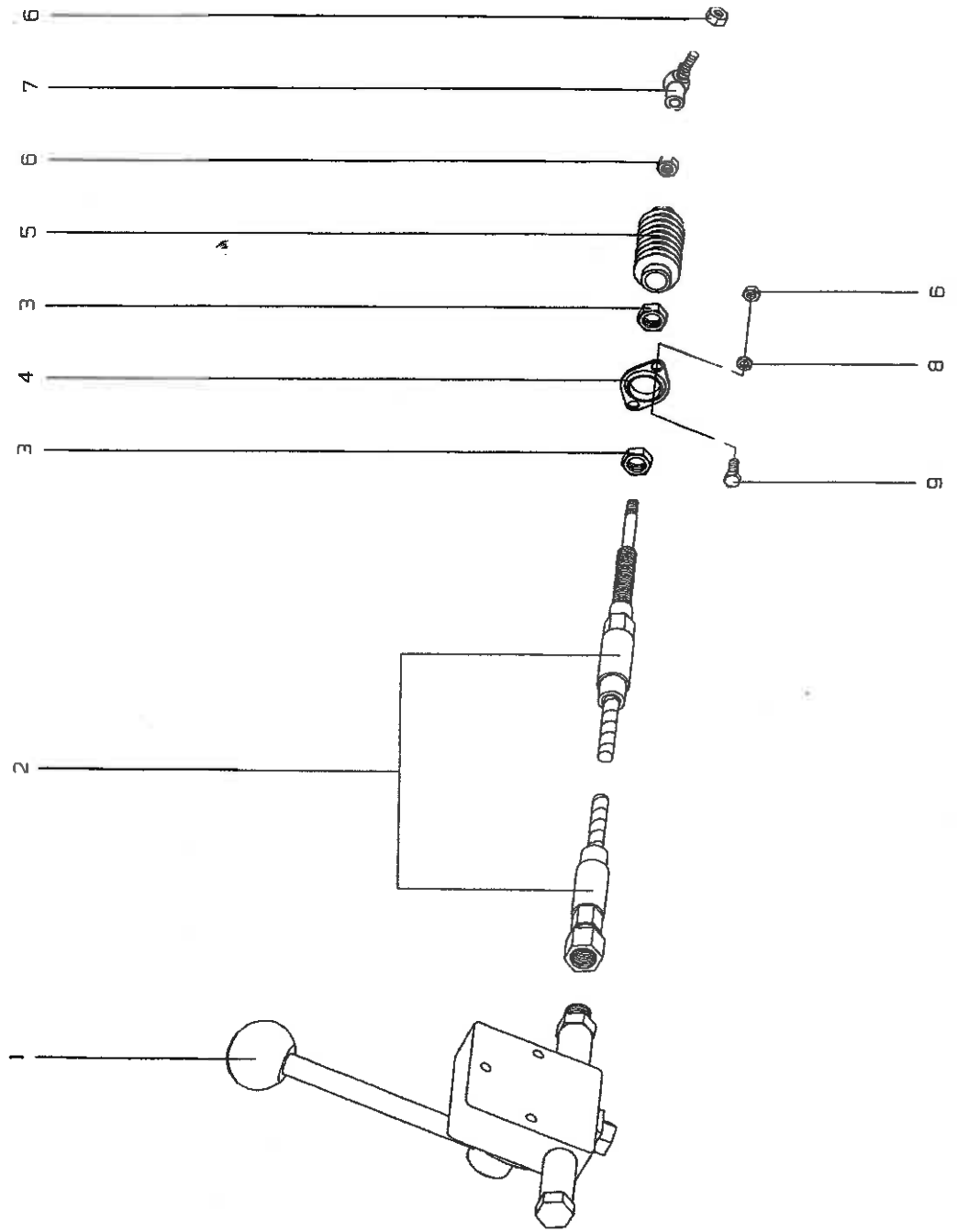
650 - 41 DRIVE CONTROL



650 - 41 - 41**DRIVE CONTROL**

650 - 41 - 1	Control Box D/C	1	V21068421
650 - 41 - 2	Actuation D/C	1	V65068025
650 - 41 - 3	Hex Nut	2	V18121210
650 - 41 - 4	Schnorr Washer	1	V15531218
650 - 41 - 5	Usit ring	1	V16211218
650 - 41 - 6	Hex Nut	1	V18110610
650 - 41 - 7	Fork Joint	1	V15566900

650 - 42 GAS CONTROL



650 - 42

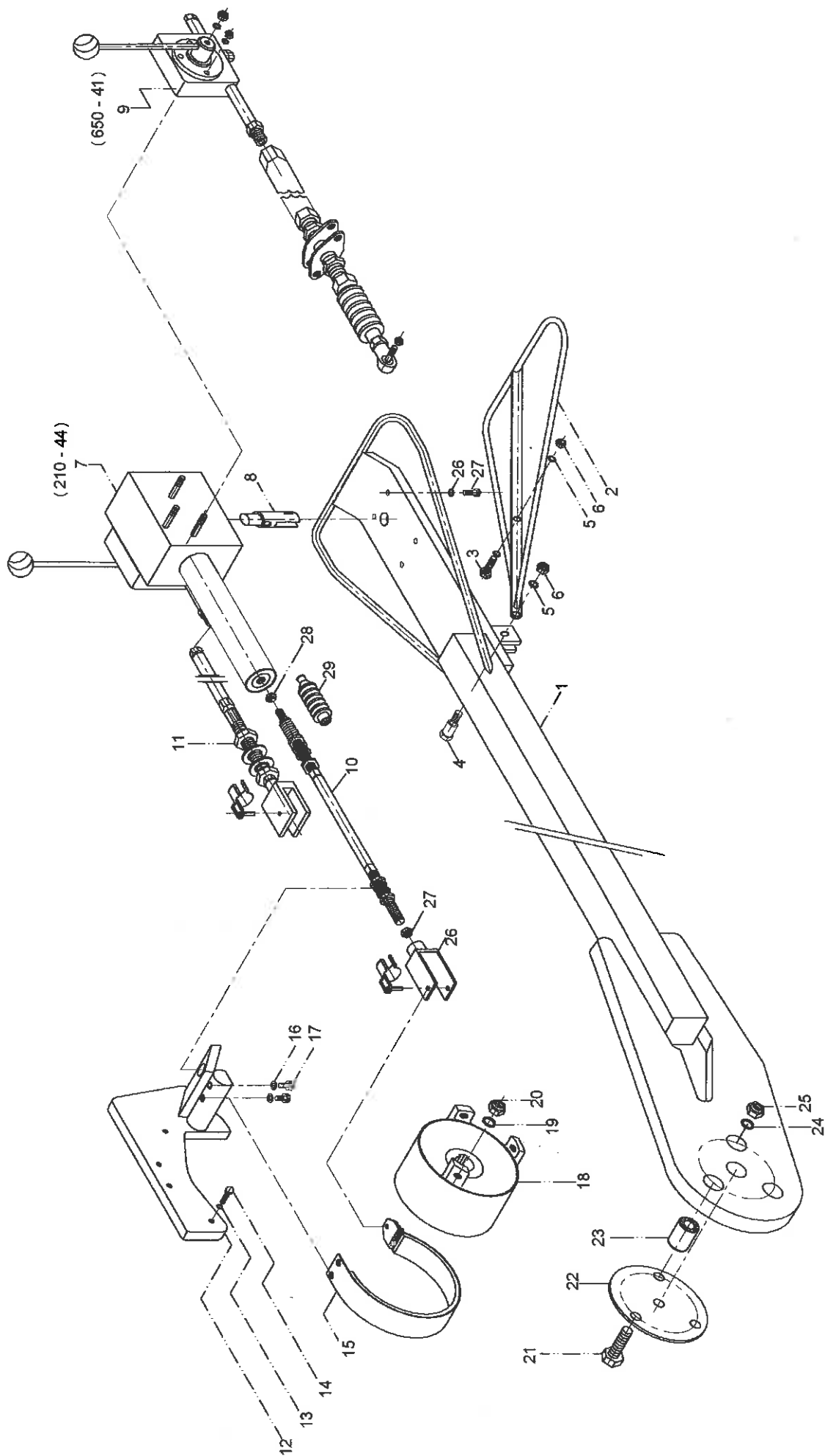
GAS CONTROL

650 - 42 - 1	Control Box G/C	1	V21068411
650 - 42 - 2	Actuation G/C	1	V65068014
650 - 42 - 2	Actuation G/C	1	V65068016
650 - 42 - 3	Hex Nut	2	V15568382
650 - 42 - 4	Ball Joint	1	V15568750
650 - 42 - 5	Concertina Wall	1	V15568850
650 - 42 - 6	Hex Nut	4	V18110508
650 - 42 - 7	Angular Joint	1	V19812100
650 - 42 - 8	Spring Washer	2	V18530509
650 - 42 - 9	Hex Bolt	2	V17140524

1)

1) For machines fitted with Fieldmarshal
Engine

650 - 43 SAFETY HANDLE

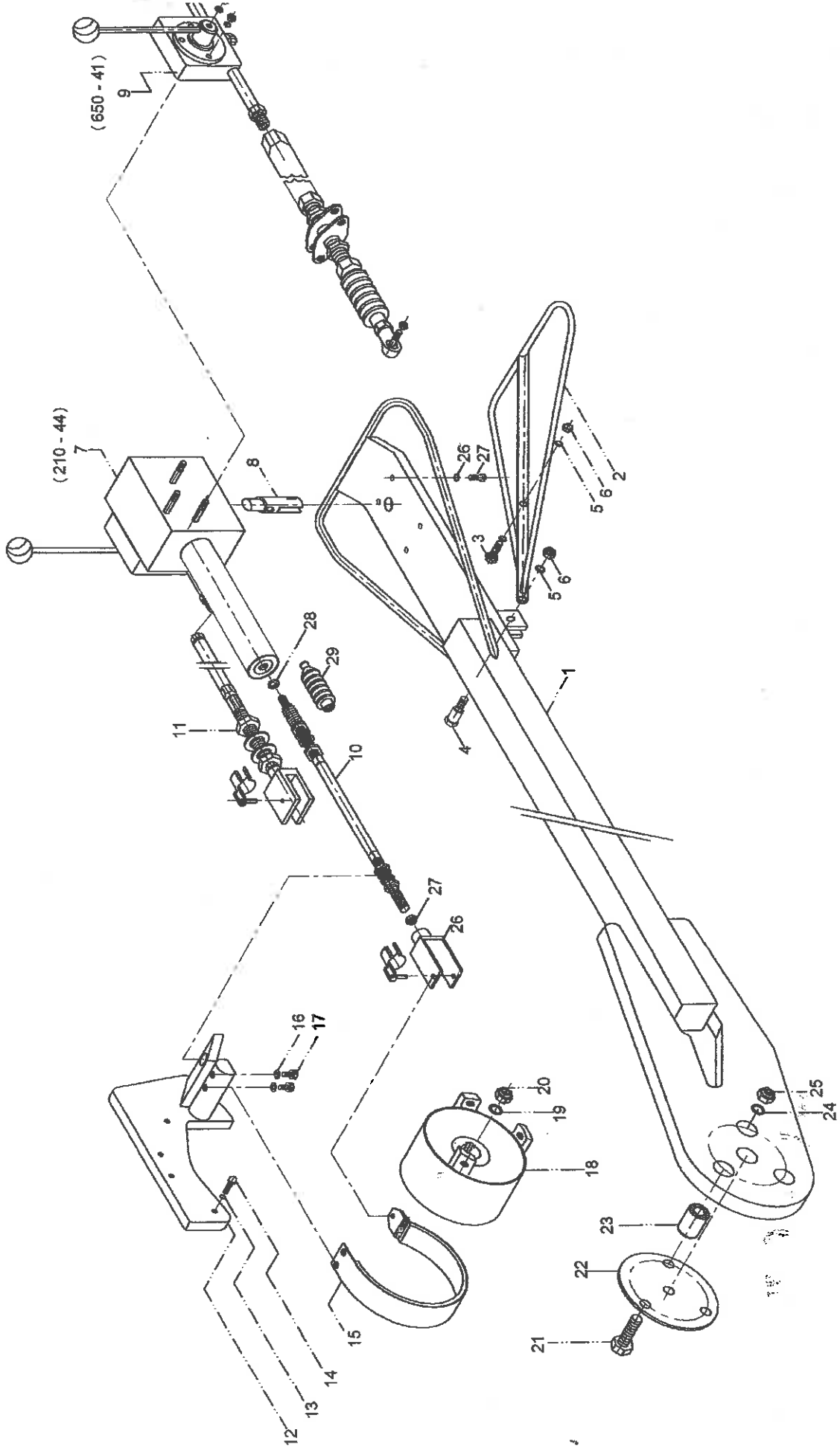


650 - 43**SAFETY HANDLE**

650 - 43 - 1	Steering Rod	1	V65041453
650 - 43 - 2	Safety Bend	1	V21060455
650 - 43 - 3	Hex Bolt	1	V17140844
650 - 43 - 4	Distance Bolt	1	V21060458
650 - 43 - 5	Flat Washer	2	V18510817
650 - 43 - 6	Nylock Nut	2	V18130813
650 - 43 - 7	Safety Control Complete	1	V21068510
650 - 43 - 8	Gudgeon Pin	1	V21068428
650 - 43 - 9	Gas Control Complete	1	V21060620
650 - 43 - 9	Gas Control Complete	1	V65060620
650 - 43 - 10	Brake Cable Complete	1	V65069026
650 - 43 - 11	Drive Clutch Actuation	1	V65068025
650 - 43 - 12	Bracket	1	V21070904
650 - 43 - 13	Schnorr Washer	4	V15530813
650 - 43 - 14	Hex Bolt	4	V17140824
650 - 43 - 15	Brake Band	1	V21070901
650 - 43 - 16	Schnorr Washer	2	V15530610
650 - 43 - 17	SHC Screw	2	V17230601
650 - 43 - 18	Coupling Flange	1	V21030604
650 - 43 - 19	Flat Washer	1	V18511730
650 - 43 - 20	Safety Nut	1	V18181161
650 - 43 - 21	Hex Bolt	4	V17131240
650 - 43 - 22	Disc	1	V21060403

1)

650 - 43 SAFETY HANDLE



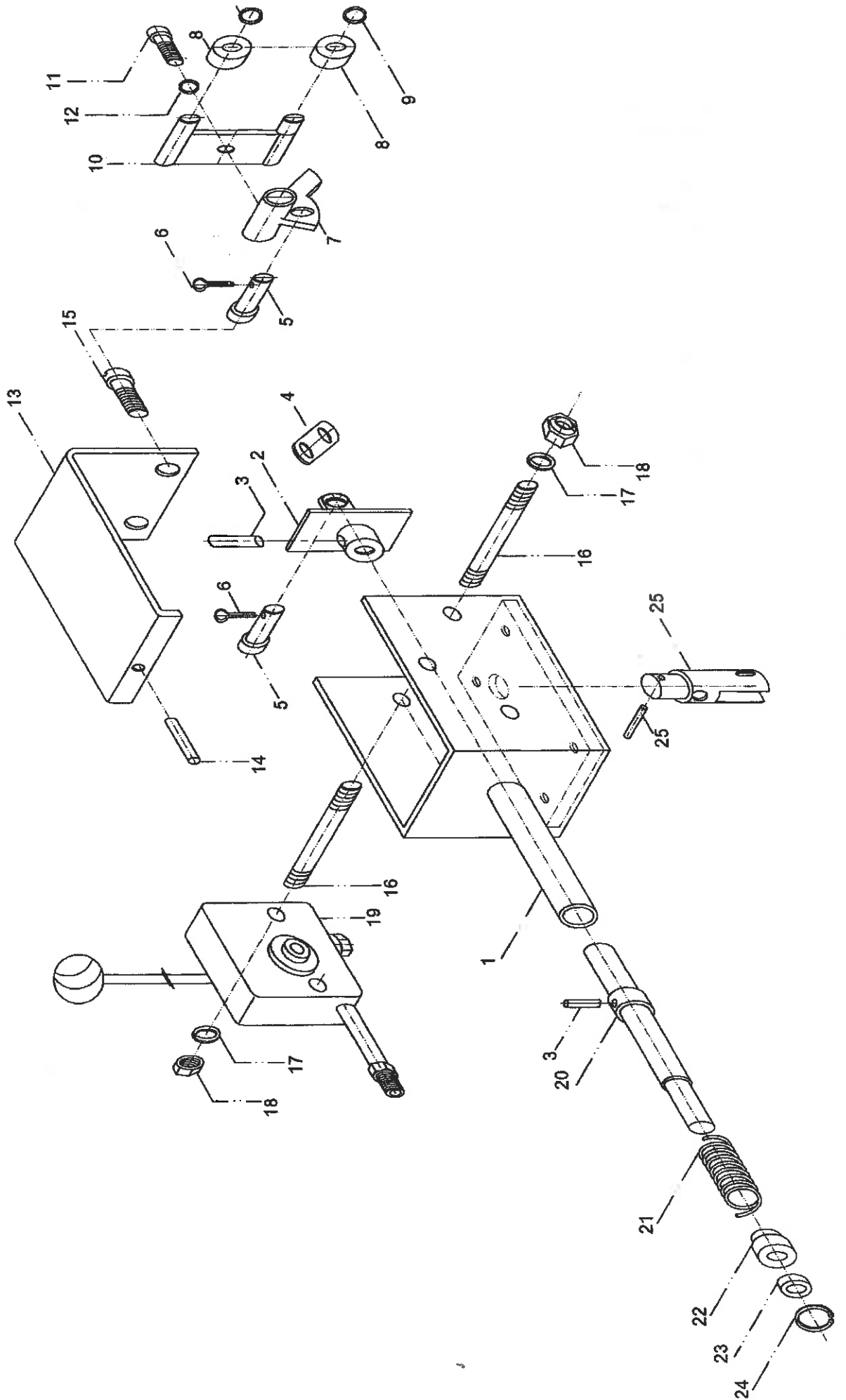
SAFETY HANDLE

650 - 43

650 - 43 - 23	Rubber Bush	4	V21040203
650 - 43 - 24	Schnorr Washer	4	V15531218
650 - 43 - 25	Nylock Nut	4	V18131218
650 - 43 - 26	Fork Joint	1	V15566900
650 - 43 - 27	Hex Nut	1	V18110610
650 - 43 - 28	Hex Nut	1	V18111015
650 - 43 - 29	Concertina Wall	1	V15568850

1) For machines fitted with Fieldmarshall
Engine

210 - 44 SAFETY CONTROL

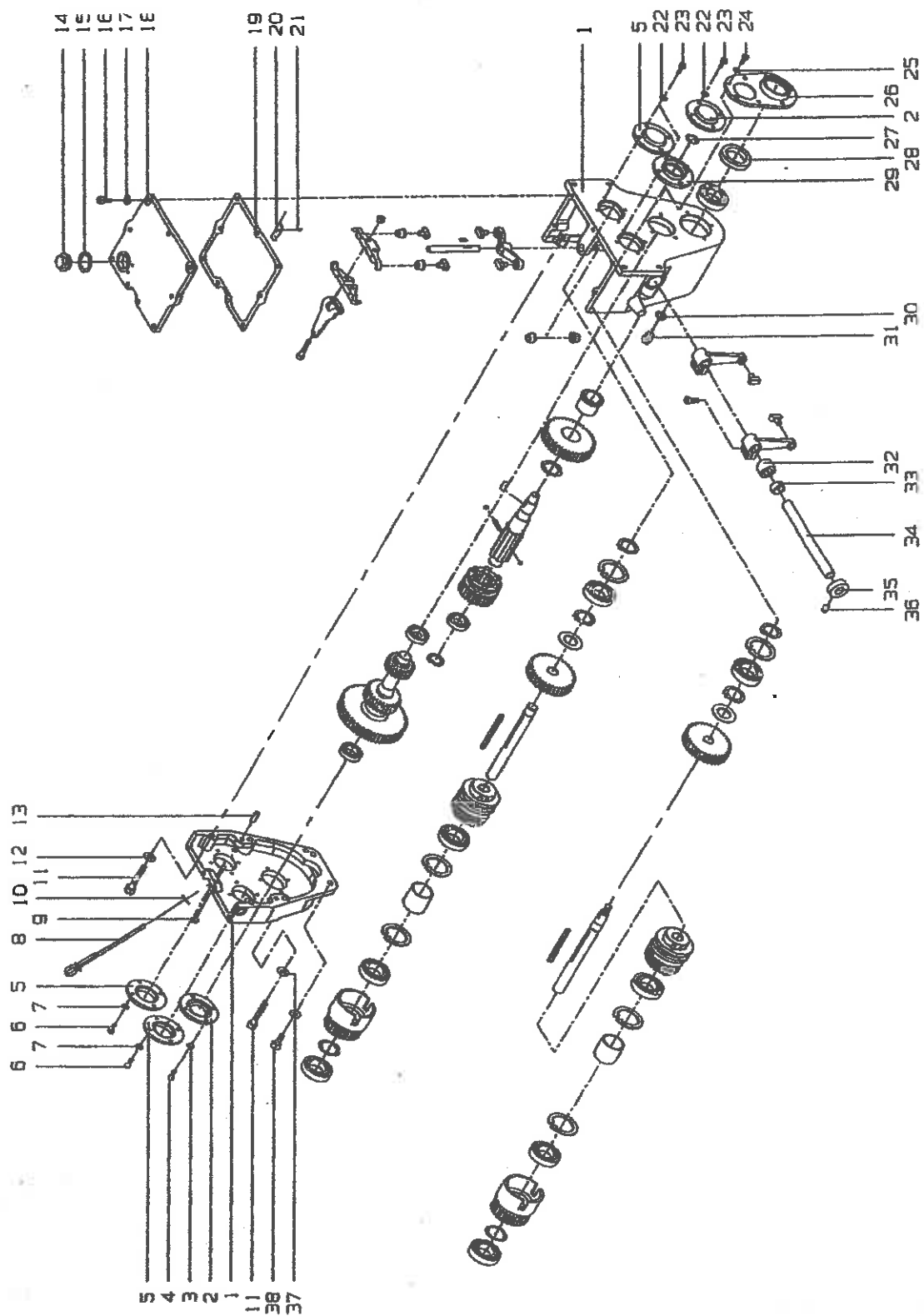


210 - 44

SAFETY CONTROL

210 - 44 - 1	Housing	1	V21058518
210 - 44 - 2	Tappet	1	V21058510
210 - 44 - 3	Dowel Pin	2	V19150813
210 - 44 - 4	Link	1	V21058519
210 - 44 - 5	Pin	2	V19852086
210 - 44 - 6	Split Pin	2	V19170204
210 - 44 - 7	Lock	1	V21058520
210 - 44 - 8	Roller	2	V21058509
210 - 44 - 9	Outer Circlip	2	V19210300
210 - 44 - 10	Support	1	V21058522
210 - 44 - 11	SHC Screw	1	V17230817
210 - 44 - 12	Schnorr Washer	1	V15530813
210 - 44 - 13	Cover Plate	1	V21058512
210 - 44 - 14	Dowel Pin	1	V19138400
210 - 44 - 15	Cheese Head Screw	2	V17210416
210 - 44 - 16	Stud	5	V21058511
210 - 44 - 17	Schnorr Washer	5	V15530610
210 - 44 - 18	Nylock Nut	5	V18130611
210 - 44 - 19	Control Box D/C	1	V21068426
210 - 44 - 20	Shaft with Collar	1	V21058517
210 - 44 - 21	Pressure Spring	1	V21058621
210 - 44 - 22	Ring	1	V21058513
210 - 44 - 23	Oil Seal	1	V19311231
210 - 44 - 24	Inner Circlip	1	V19222100
210 - 44 - 25	Gudgeon	1	V21068428
210 - 44 - 26	Tightening Sleeve	1	V19150417

250 - 50 GEARBOX

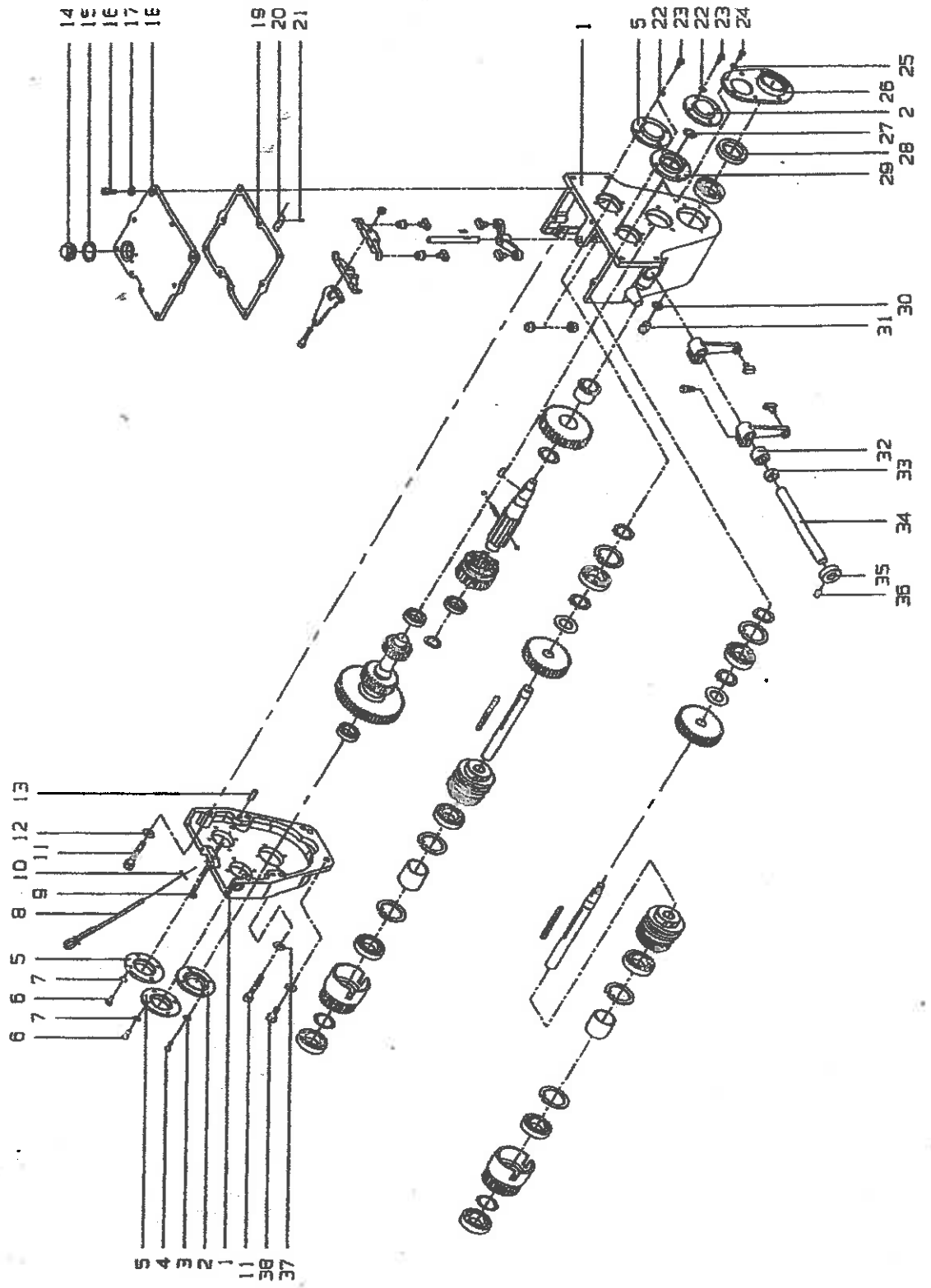


GEARBOX

250 - 50

2)	250 - 50 - 1	Gearbox Housing Complete	1	V25050200
3)	250 - 50 - 2	Gearbox Housing Complete	1	V25050220
	250 - 50 - 2	Bearing Cover	2	V25050404
	250 - 50 - 3	Schnorr Washer	4	V15530610
	250 - 50 - 4	Hex Bolt	4	V17140624
	250 - 50 - 5	Bearing Cover	3	V25050506
	250 - 50 - 6	Hex Bolt	8	V17140624
	250 - 50 - 7	Schnorr Washer	8	V15530610
	250 - 50 - 8	Oil Dipstick	1	V25050803
2)	250 - 50 - 8	Oil Dipstick	1	V25050235
3)	250 - 50 - 8	Washer	2	V18520014
	250 - 50 - 9	V Ring	1	V16235006
2)	250 - 50 - 10	O Ring	2	V16220091
3)	250 - 50 - 10	Hex Bolt	4	V17131028
	250 - 50 - 11	Schnorr Washer	4	V15531016
	250 - 50 - 12	Notched Fitting Pin	2	V19130804
1)	250 - 50 - 13	Screw Plug	1	V21050306
	250 - 50 - 14	Uisit Ring	1	V16213139
	250 - 50 - 15	Hex Bolt	9	V17140824
	250 - 50 - 16	Schnorr Washer	9	V15530813
	250 - 50 - 17	Top Cover	1	V25050801
	250 - 50 - 18	Gasket	1	V25050802
	250 - 50 - 19			

250 - 50 GEARBOX

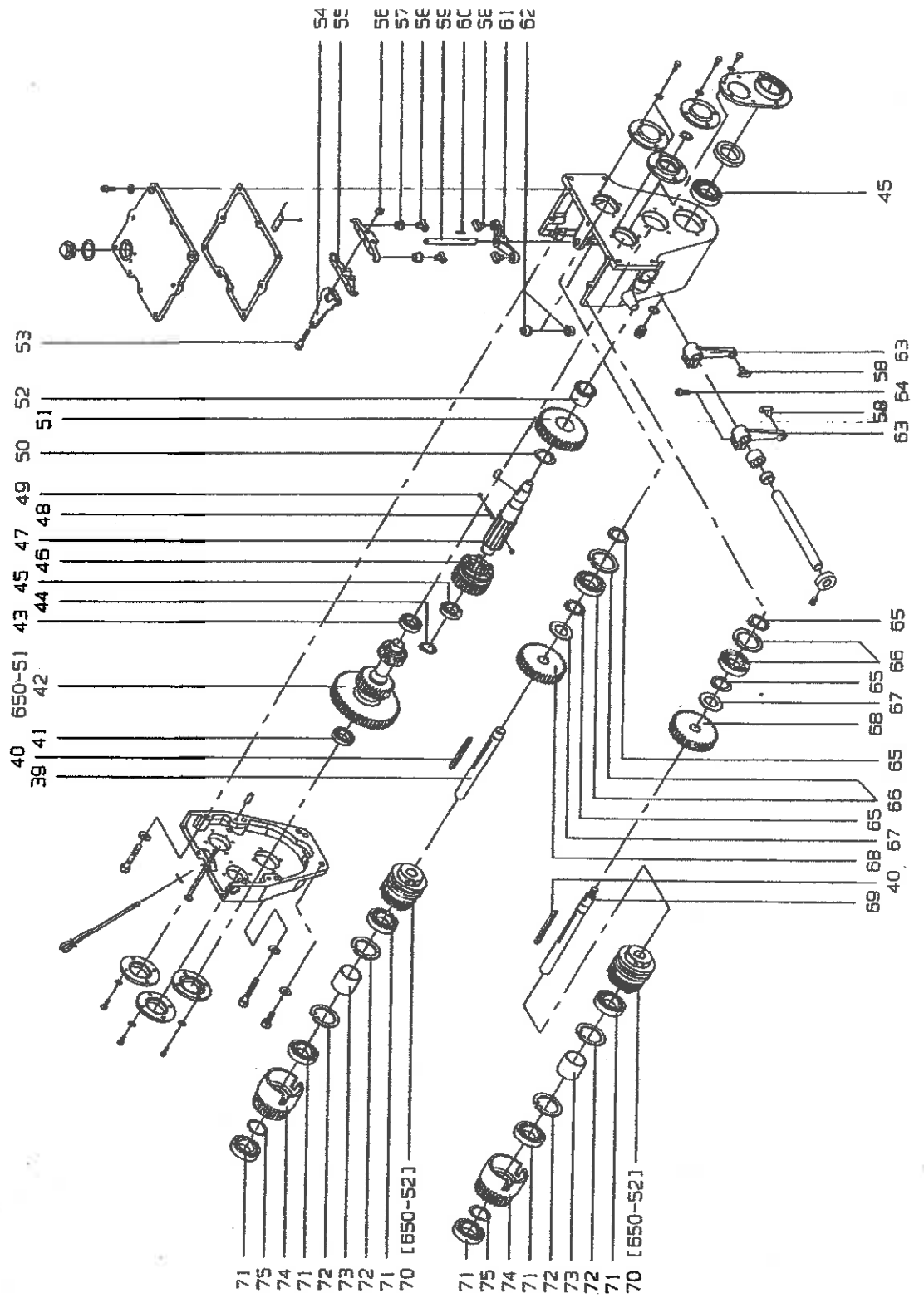


250 - 50**GEARBOX**

250 - 50 - 20	Plate	1	V25050805
250 - 50 - 21	Rivet	2	V19915349
250 - 50 - 22	Schnorr Washer	8	V15530610
250 - 50 - 23	Hex Bolt	8	V17140624
250 - 50 - 24	Hex Bolt	7	V17140624
250 - 50 - 25	Schnorr Washer	7	V15530610
250 - 50 - 26	Bearing Cover	1	V25050403
250 - 50 - 27	Oil Seal	1	V19311911
250 - 50 - 28	Oil Seal	1	V19312403
250 - 50 - 29	Bearing Cover	1	V25050602
250 - 50 - 30	Usit Ring	1	V16211422
250 - 50 - 31	Screw Plug	1	V17631415
250 - 50 - 32	Bush	2	V25050102
250 - 50 - 33	Oil Seal	2	V19311211
250 - 50 - 34	Shaft	1	V25050712
250 - 50 - 35	Set Collar	2	V25050713
250 - 50 - 36	Threaded Pin	2	V17760804
250 - 50 - 37	Usit Ring	4	V16211018
250 - 50 - 38	Hex Bolt	2	V17141024

- 1) Part of V25050200 / V25050220
- 2) Up to Gearbox S/N 250 - 0365
- 3) From Gearbox S/N 250 - 0366

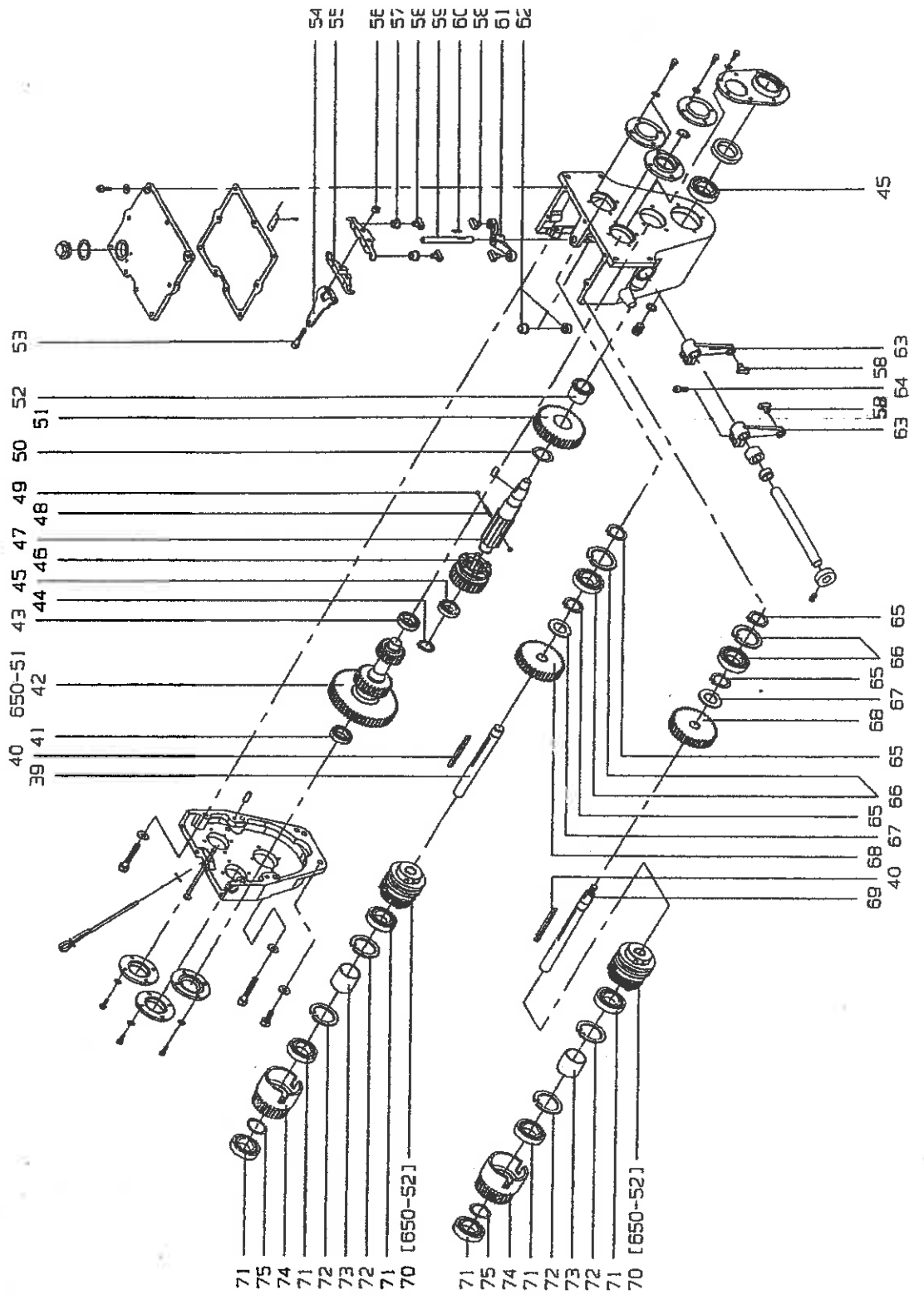
250 - 50 GEARBOX (Continued)



250 - 50**GEARBOX (Continued)**

250 - 50 - 39	Clutch Shaft	1	V25050507
250 - 50 - 40	Fitting Key	2	V19181218
250 - 50 - 41	Clutch Shaft	1	V15114005
250 - 50 - 42	Pinion Shaft Complete	1	V25050407
250 - 50 - 43	Cyl Roller Bearing	1	V152222230
250 - 50 - 44	Outer Circlip	1	V19211300
250 - 50 - 45	Ball Bearing	2	V15115005
250 - 50 - 46	Sliding Gear	1	V25050302
250 - 50 - 47	Splined Shaft	1	V25050301
250 - 50 - 48	Spring	1	V25052504
250 - 50 - 49	Ball	2	V15340080
250 - 50 - 50	Supp Disc	1	V15521225
250 - 50 - 51	Dog Clutch	1	V25051300
250 - 50 - 52	Bush for Dog Clutch	1	V25051302
250 - 50 - 53	SHC Screw	2	V17230829
250 - 50 - 54	Lever	1	V25050708
250 - 50 - 55	Lever	1	V25050706
250 - 50 - 56	Nylock Nut	2	V18130813
250 - 50 - 57	Collar Bush	2	V25050707
250 - 50 - 58	Sliding Block	6	V25050703
250 - 50 - 59	Shaft	1	V25050705
250 - 50 - 60	Fitting Key	1	V19180405
250 - 50 - 61	Clutch Lever	1	V25050704

250 - 50 GEARBOX (Continued)

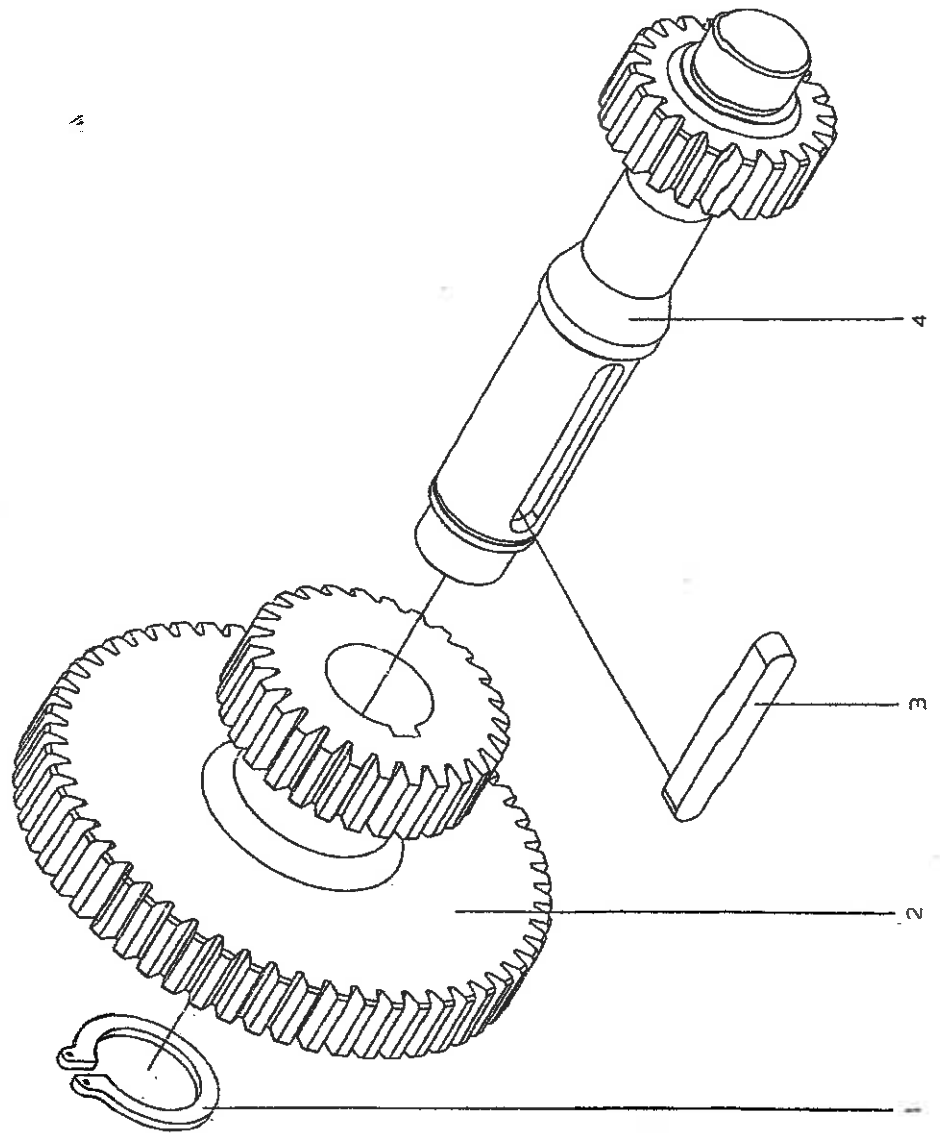


GEARBOX (Continued)

250 - 50

250 - 50 - 62	Bush	2	V25050103
250 - 50 - 63	Gearshift Lever	2	V25050715
250 - 50 - 64	SHC Screw	4	V17230809
250 - 50 - 65	Outer Circlip	4	V19210800
250 - 50 - 66	Ball Bearing	2	V15114204
250 - 50 - 67	Supp Disc	2	V25050508
250 - 50 - 68	Gear	2	V25050505
250 - 50 - 69	Clutch Shaft	1	V25050603
250 - 50 - 70	Disc Clutch Complete	2	V15522100
250 - 50 - 71	Ball Bearing	6	V15114004
250 - 50 - 72	Inner Circlip	4	V19222500
250 - 50 - 73	Distance Ring	2	V25050504
250 - 50 - 74	Clutch Housing	2	V25050503
250 - 50 - 75	Supp Disc	2	V15520620

250 - 51 PINION SHAFT

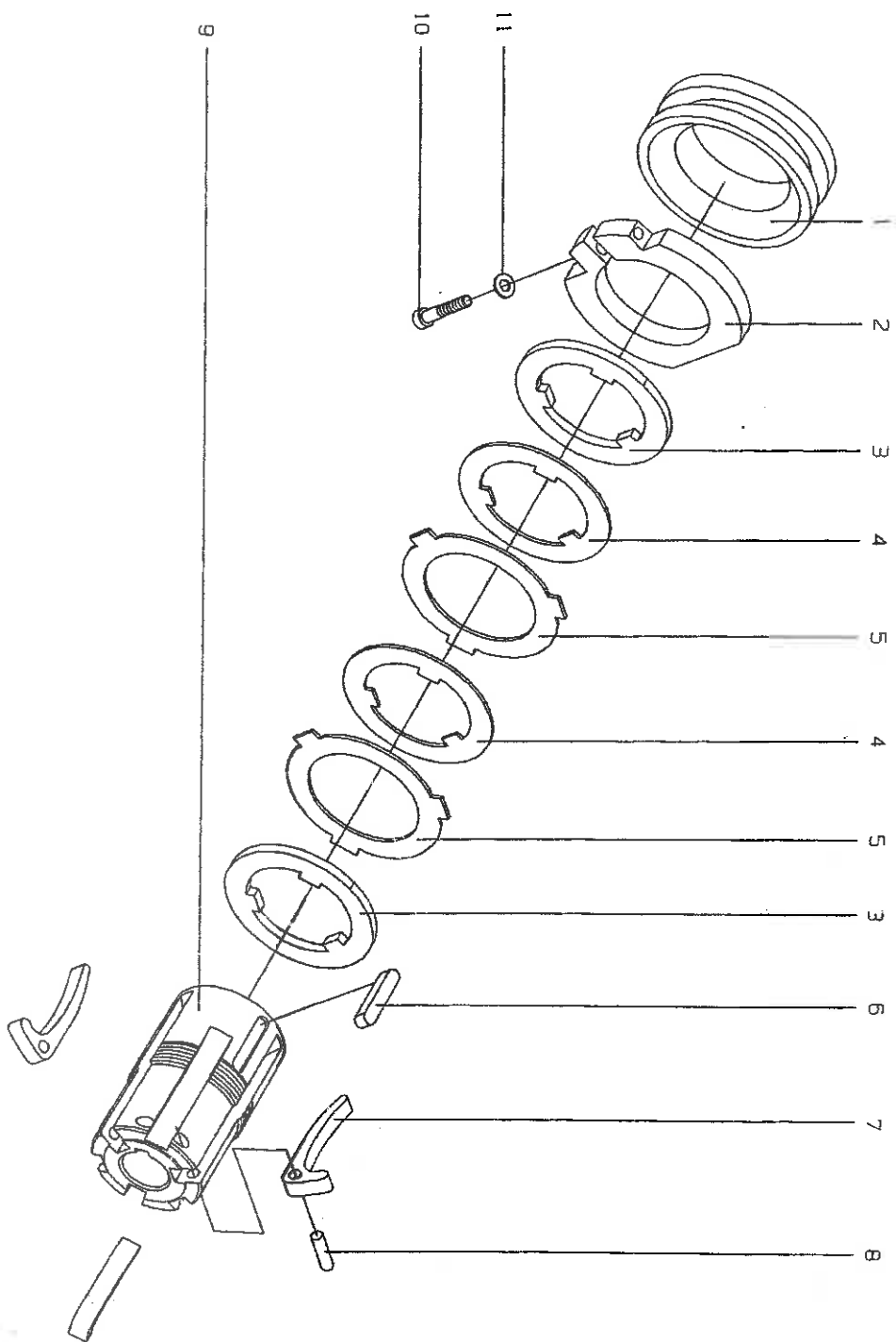


250 - 51

PINION SHAFT

250 - 51 - 1	Outer Circlip	1	V19211800
250 - 51 - 2	Double Gear	1	V25050402
250 - 51 - 3	Fitting Key	1	V19181612
250 - 51 - 4	Pinion Shaft	1	V25050401

250 - 52 DISC CLUTCH

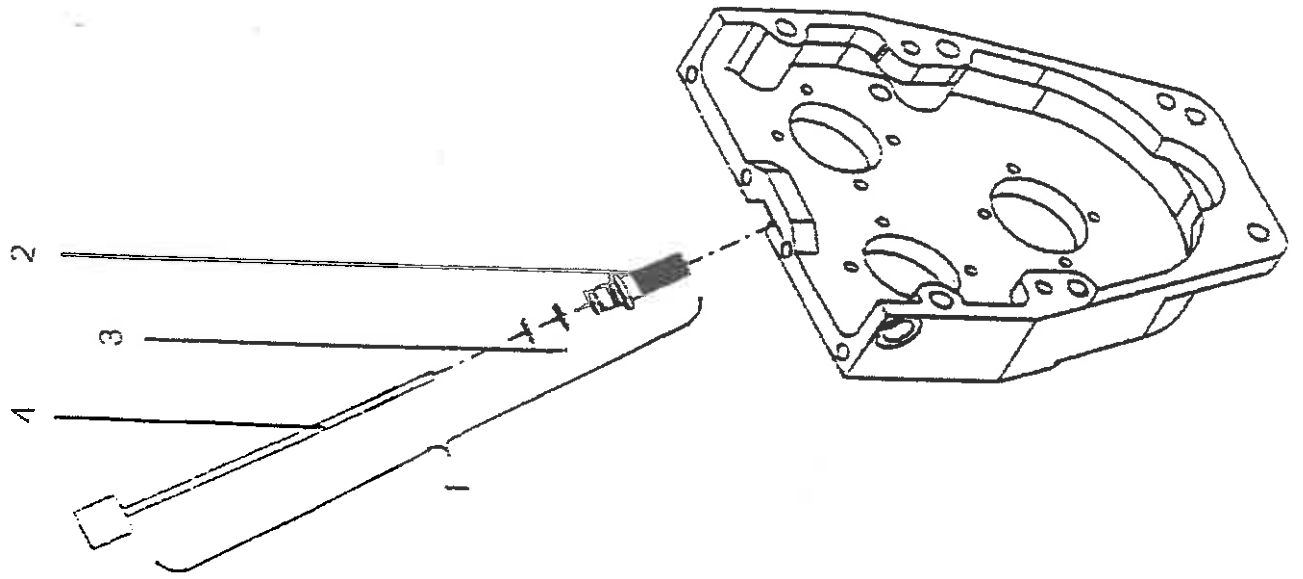


250 - 52 - 52

DISC CLUTCH

250 - 52 - 1	Sliding Ring	1	V15632011
250 - 52 - 2	Tightening Nut	1	V15631110
250 - 52 - 3	Thrust Disc	2	V15635010
250 - 52 - 4	Inner Disc	6	V15634011
250 - 52 - 5	Outer Disc	6	V15633011
250 - 52 - 6	Fitting Key	1	V19181208
250 - 52 - 7	Lever	3	V15636020
250 - 52 - 8	Lever Pin	3	V15637020
250 - 52 - 9	Disc Support	1	V15630011
250 - 52 - 10	SHC Screw	1	V17230525
250 - 52 - 11	Schnorr Washer	1	V15530509

250 - 53 DIPSTICK MODIFICATION

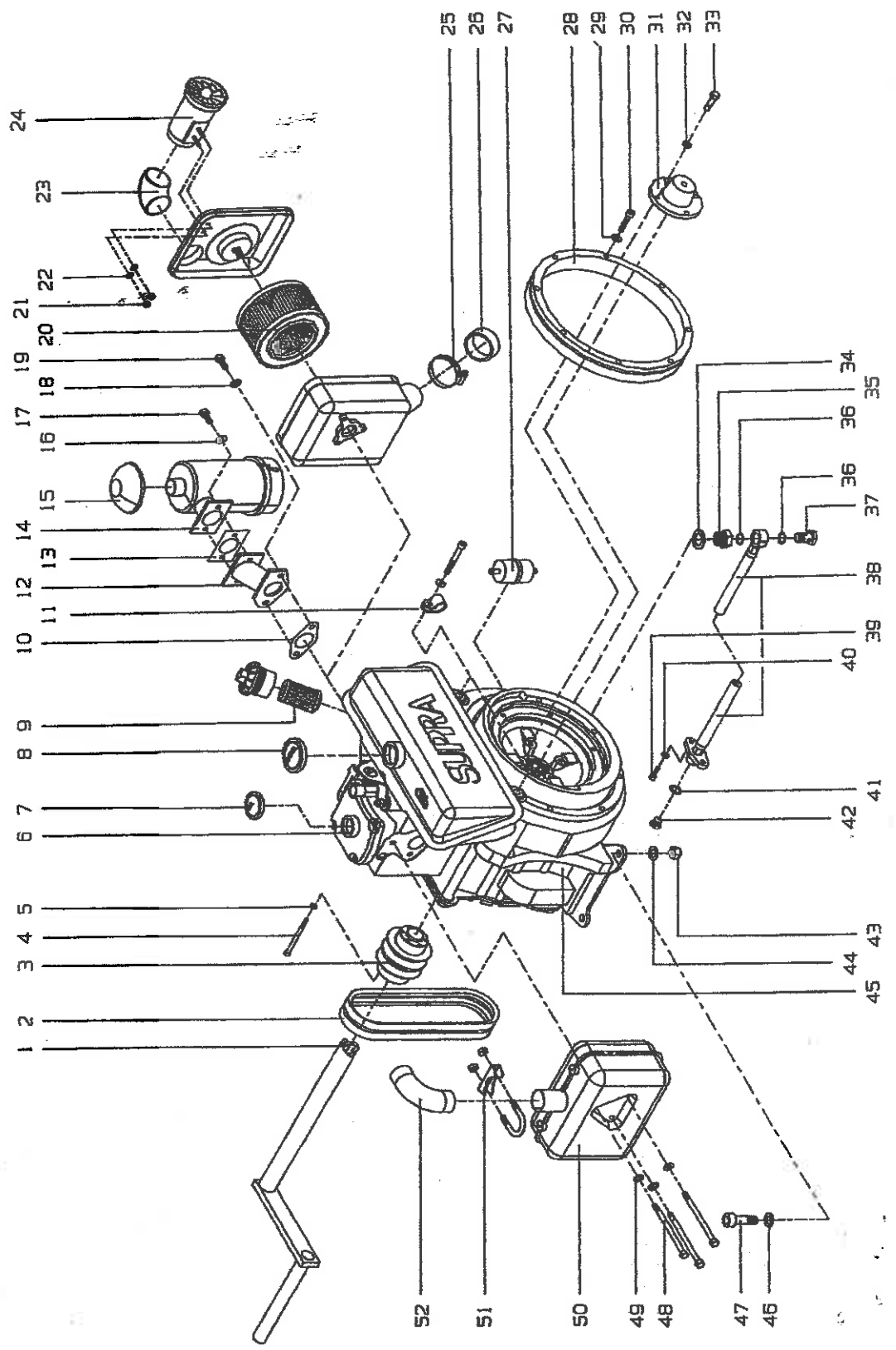


250 - 53 - 53

DIPSTICK MODIFICATION

250 - 53 - 1	Modification Complete	1	V25050230
250 - 53 - 2	Insert	1	V25050232
250 - 53 - 3	O Ring	2	V16220091
250 - 53 - 4	Oil Dipstick	1	V25050235

650 - 60 ENGINE



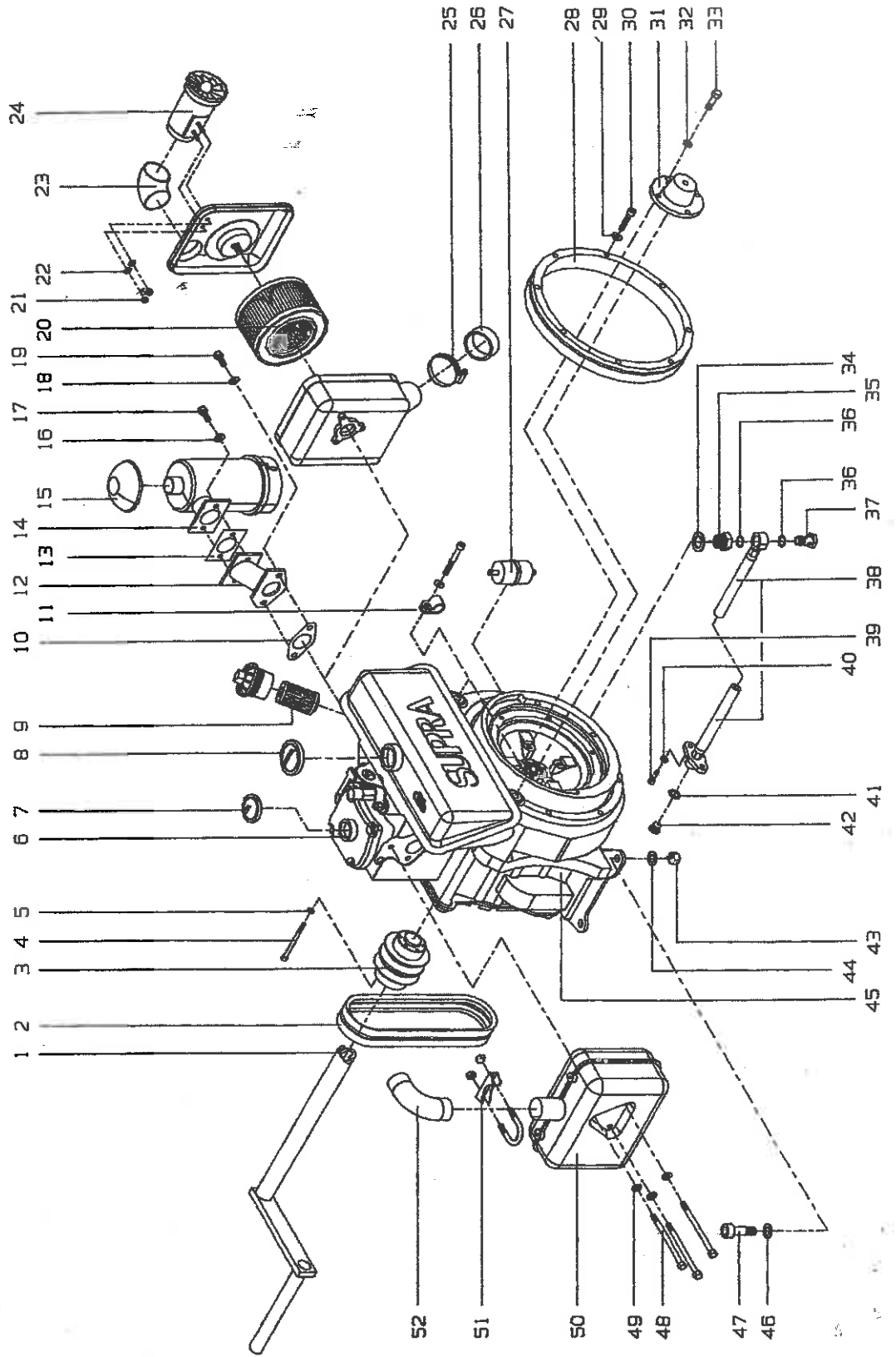
650 - 60**ENGINE**

650 - 60 - 1	Starting Handle	1	H00863700
650 - 60 - 2	V Belt	2	V16312204
650 - 60 - 3	V Belt Pulley	1	V21090102
650 - 60 - 4	SHC Screw	6	V17230699
650 - 60 - 5	Schnorr Washer	6	V15530610
650 - 60 - 6	Tappet Cover	1	H01286600
650 - 60 - 7	Oil Cap	1	H50392501
650 - 60 - 8	Fuel Cap	1	H40032700
650 - 60 - 9	Oil Filter	1	H01480000
650 - 60 - 10	Gasket	1	H01158700
650 - 60 - 11	Tube Clip	2	V15551908
650 - 60 - 12	Adaptor Flange	1	V21091102
650 - 60 - 13	Gasket	1	H01154000
650 - 60 - 14	Oil Bath Aircleaner	1	H40102900
650 - 60 - 15	Rain Cap	1	H40099500
650 - 60 - 16	Schnorr Washer	2	V15530813
650 - 60 - 17	Hex Bolt	2	V17140816
650 - 60 - 18	Schnorr Washer	2	V15530813
650 - 60 - 19	Hex Bolt	2	V17140824
650 - 60 - 20	Aircleaner Element	1	H04030100
650 - 60 - 21	Nylock Nut	2	V18130611
650 - 60 - 22	Washer	2	H50120000
650 - 60 - 23	Rubber Elbow	1	H05038910
650 - 60 - 24	Cyclon Precleaner	1	H01491001

650 - 60**ENGINE**

650 - 60 - 25	Hose Clamp	1	H50406600
650 - 60 - 26	Rubber Cap	1	H01481400
650 - 60 - 27	In Line Fuel Filter	1	H40089401
650 - 60 - 28	Globe	1	V21060502
650 - 60 - 29	Schnorr Washer	8	V15531016
650 - 60 - 30	SHC Screw	8	V17231013
650 - 60 - 31	Intermediate Flange	1	V21060501
650 - 60 - 32	Schnorr Washer	4	V15530813
650 - 60 - 33	Hex Bolt	4	V17140840
650 - 60 - 34	Sealing Ring	1	V19331198
650 - 60 - 35	Reducer	1	V19710109
650 - 60 - 36	Sealing Ring	2	V19331148
650 - 60 - 37	Hollow Screw	1	V19710110
650 - 60 - 38	Oil Drain Hose	1	V21060202
650 - 60 - 39	SHC Screw	2	V17230809
650 - 60 - 40	Schnorr Washer	2	V15530813
650 - 60 - 41	Usit Ring	1	V16211422
650 - 60 - 42	Screw Plug	1	V17621415
650 - 60 - 43	Nylock Nut	4	V18131218
650 - 60 - 44	Schnorr Washer	4	V15531218
650 - 60 - 45	Hatz Diesel Engine	1	HEID41
650 - 60 - 46	Disc	4	V18752130

650 - 60 ENGINE

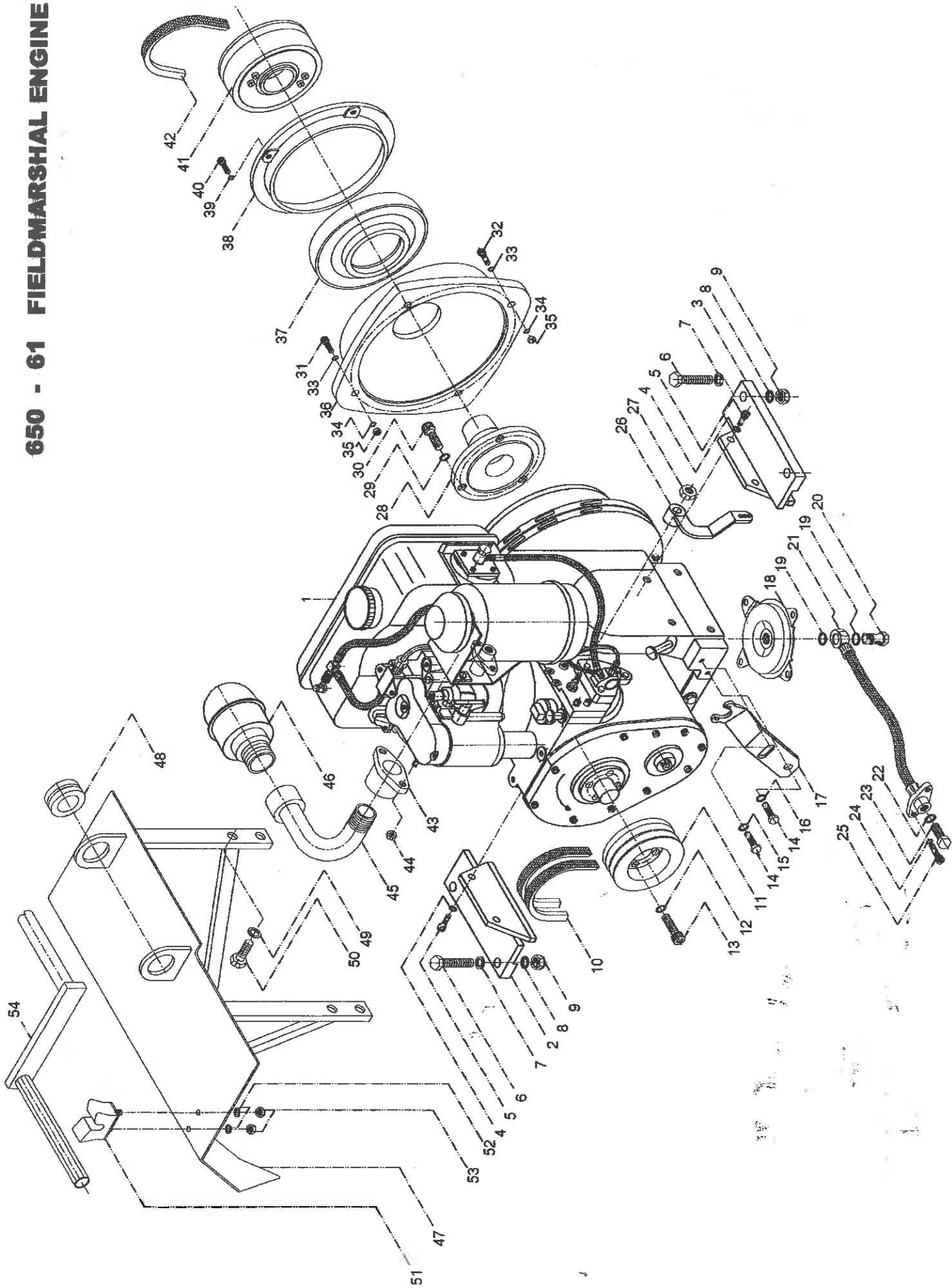


650 - 60

ENGINE

650 - 60 - 47	SHC Screw	4	V17231225
650 - 60 - 48	Hex Bolt	3	V17130880
650 - 60 - 49	Schnorr Washer	3	V15530813
650 - 60 - 50	Exhaust Box	1	H90006000
650 - 60 - 51	Clamping Kit	1	H90006002
650 - 60 - 52	Exhaust Elbow	1	H90006001

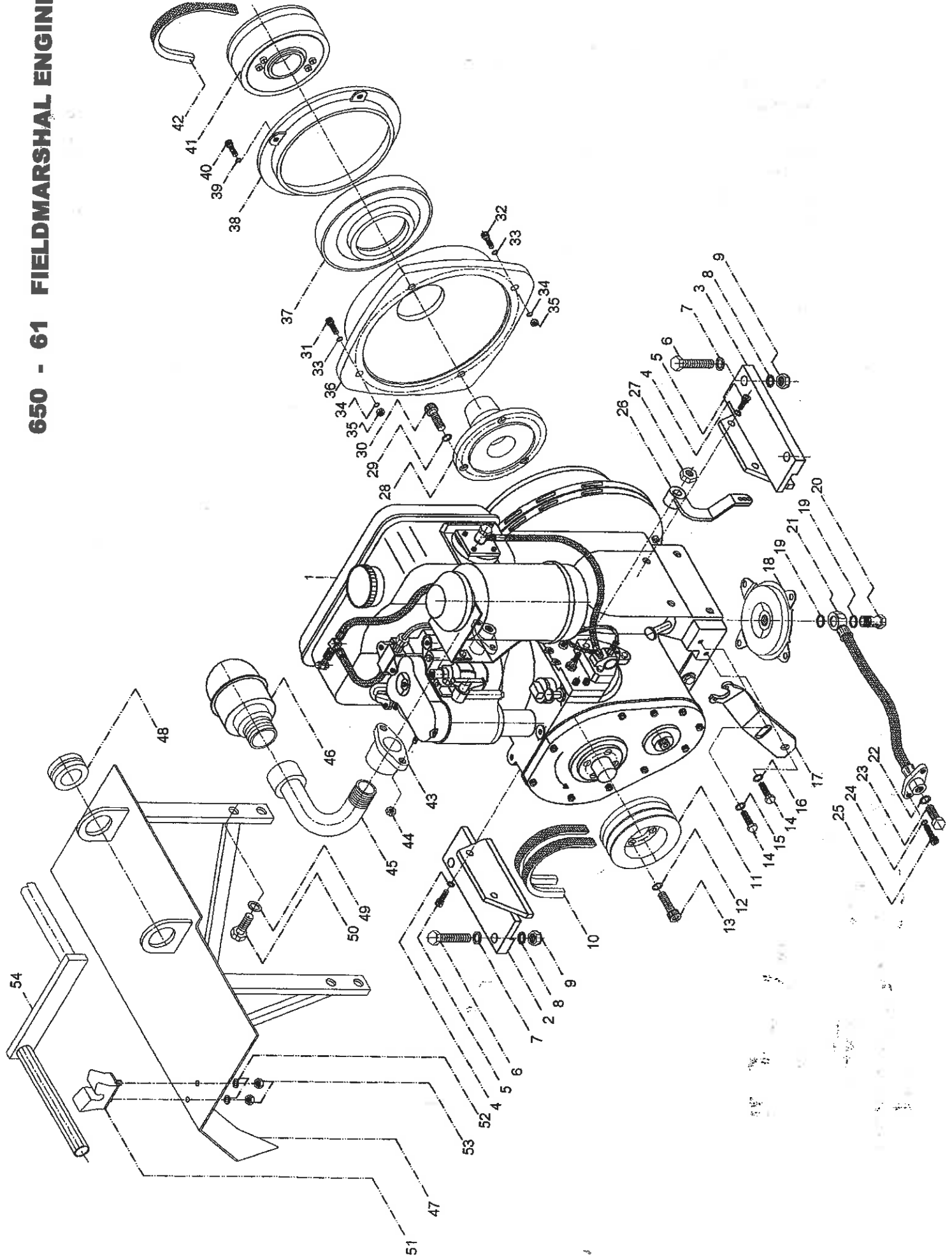
650 - 61 FIELDMARSHAL ENGINE



650 - 61**FIELDMARSHAL ENGINE**

650 - 61 - 1	Fieldmarshal Engine	1	HE 75
650 - 61 - 2	Engine Holder Rear	1	V65060602
650 - 61 - 3	Engine Holder Front	1	V65060603
650 - 61 - 4	Schnorr Washer	8	V15531016
650 - 61 - 5	SHC Screw	8	V17231017
650 - 61 - 6	Hex Bolt	4	V17131240
650 - 61 - 7	Disc	4	V18752130
650 - 61 - 8	Schnorr Washer	4	V15531218
650 - 61 - 9	Nylock Nut	4	V18131218
650 - 61 - 10	V Belt	2	V16312208
650 - 61 - 11	V Belt Pulley	1	V21061900
650 - 61 - 12	Schnorr Washer	4	V15531016
650 - 61 - 13	SHC Screw	4	V17231013
650 - 61 - 14	Hex Bolt	2	V17141016
650 - 61 - 15	Flat Washer	1	V18511021
650 - 61 - 16	Schnorr Washer	1	V15531016
650 - 61 - 17	Support	1	V21065105
650 - 61 - 18	Sump Cover	1	V21065600
650 - 61 - 19	Sealing Ring	2	V19331148
650 - 61 - 20	Hollow Screw	1	V19710110
650 - 61 - 21	Oil Drain Hose	1	V21061202
650 - 61 - 22	Usit Ring	1	V16211422
650 - 61 - 23	Screw Plug	1	V17621415

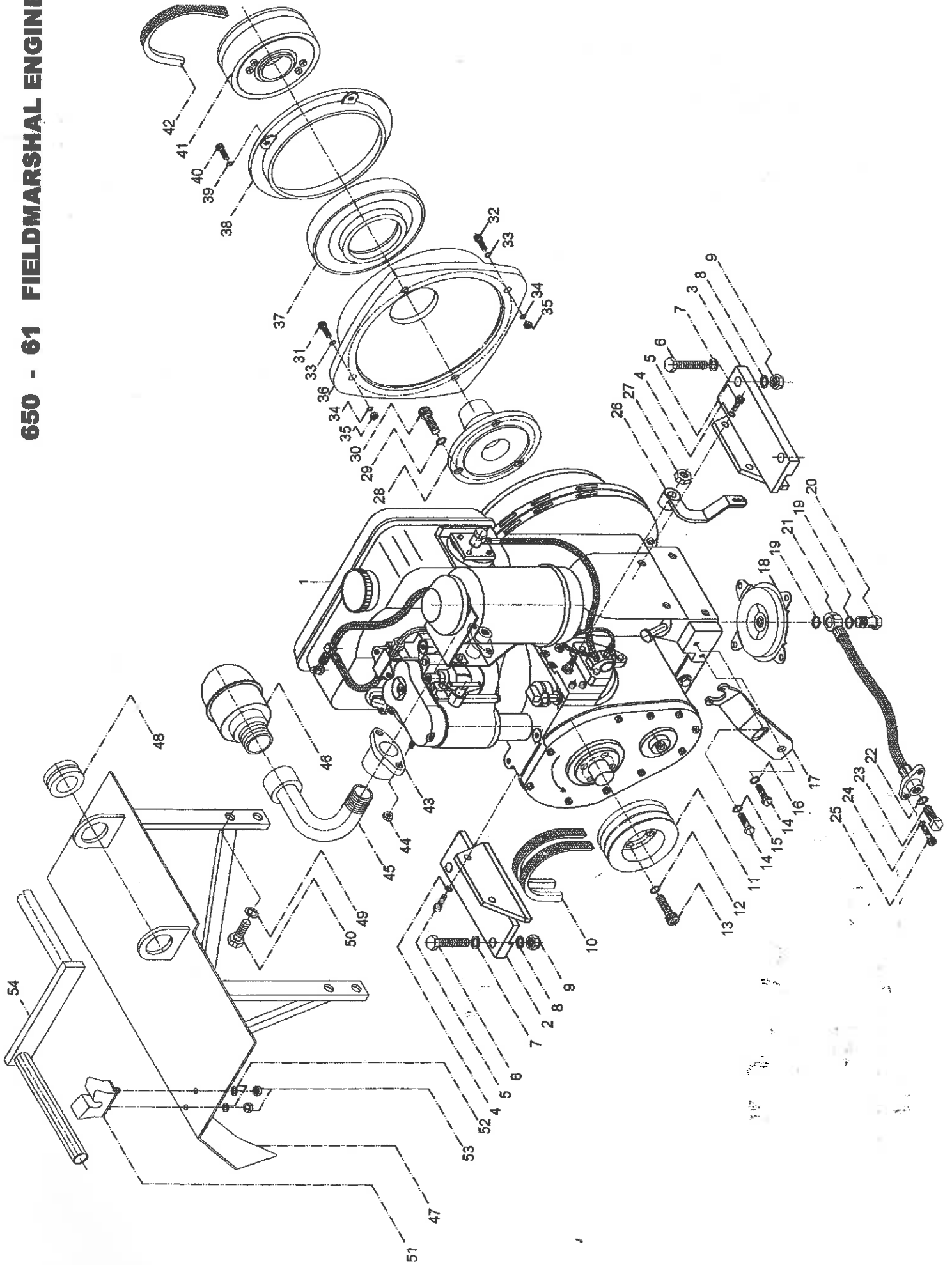
650 - 61 FIELDMARSHAL ENGINE



650 - 61**FIELDMARSHAL ENGINE**

650 - 61 - 24	Schnorr Washer	2	V15530813
650 - 61 - 25	SHC Screw	2	V17230809
650 - 61 - 26	Speed Control Lever	1	V21065104
650 - 61 - 27	Hex Nut	2	V18111015
650 - 61 - 28	Intermediate Flange	1	V65060501
650 - 61 - 29	Schnorr Washer	3	V15531218
650 - 61 - 30	Hex Bolt	3	V17141224
650 - 61 - 31	SHC Screw	2	V17231053
650 - 61 - 32	SHC Screw	2	V17231041
650 - 61 - 33	Flat Washer	4	V18511021
650 - 61 - 34	Schnorr Washer	4	V15531016
650 - 61 - 35	Nylock Nut	4	V18131016
650 - 61 - 36	Globe	1	V65060502
650 - 61 - 37	Rubber Cover	1	V65030702
650 - 61 - 38	Flange	1	V65030701
650 - 61 - 39	Schnorr Washer	4	V15530813
650 - 61 - 40	SHC Screw	4	V17230809
650 - 61 - 41	Centrifugal Clutch	1	V15650052
650 - 61 - 42	V Belt	1	V16312231
650 - 61 - 43	Flange	1	H03828900
650 - 61 - 44	Hex Nut	2	H50023000
650 - 61 - 45	Exhaust Elbow	1	V21065900
650 - 61 - 46	Exhaust Pepper Pot	1	H00872200

650 - 61 FIELDMARSHAL ENGINE



650 - 61 - 61**FIELDMARSHAL ENGINE**

650 - 61 - 47	Guide Cover	1	V65081300
650 - 61 - 48	Grommet	2	V21045402
650 - 61 - 49	Schnorr Washer	4	V15531218
650 - 61 - 50	Hex Bolt	1	V17141224
650 - 61 - 51	Clamping Device	1	V21081303
650 - 61 - 52	Schnorr Washer	2	V15530610
650 - 61 - 53	Nylock Nut	2	V18130611
650 - 61 - 54	Starting Handle	1	H00863700

H00863700	650 - 60 - 1
	650 - 61 - 54
H00872200	650 - 61 - 46
H01154000	650 - 60 - 13
H01158700	650 - 60 - 10
H01286600	650 - 60 - 6
H01480000	650 - 60 - 9
H01481400	650 - 60 - 26
H01491001	650 - 60 - 24
H03828900	650 - 61 - 43
H04030100	650 - 60 - 20
H05038910	650 - 60 - 23
H40032700	650 - 60 - 8
H40089401	650 - 60 - 27
H40099500	650 - 60 - 15
H40102900	650 - 60 - 14
H50023000	650 - 61 - 44
H50120000	650 - 60 - 22
H50392501	650 - 60 - 7
H50406600	650 - 60 - 25
H90006000	650 - 60 - 50
H90006001	650 - 60 - 52
H90006002	650 - 60 - 51
HE 75	650 - 61 - 1
HEID41	650 - 60 - 45
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V15114005	250 - 50 - 41

V15114204	250 - 50 - 66
V15114406	650 - 32 - 10
V15115005	250 - 50 - 45
V15121006	650 - 30 - 41
V15222230	250 - 50 - 43
V15223253	650 - 10 - 9
V15223270	650 - 20 - 15
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V15331242	650 - 30 - 45
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V15521225	250 - 50 - 50
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	250 - 50 - 22
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	650 - 61 - 4
	650 - 43 - 16
V15530813	650 - 10 - 13

V15530813	650 - 30 - 11
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	650 - 40 - 29
	650 - 40 - 53
	250 - 50 - 17
	650 - 60 - 16
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	210 - 44 - 12
	650 - 61 - 24
	650 - 61 - 39
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	650 - 10 - 18
	650 - 20 - 2
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	650 - 30 - 57
	650 - 30 - 64
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V15531016	

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V17140844	650 - 43 - 3
V17141016	650 - 30 - 21
	650 - 40 - 15
	650 - 61 - 14
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V17141032	650 - 10 - 17
	650 - 20 - 1
V17141032	650 - 40 - 1
V17141224	650 - 40 - 19
	650 - 61 - 30
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V17141236	650 - 40 - 10
V17141636	650 - 40 - 27
V17210416	210 - 44 - 15
V17210604	650 - 32 - 5
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V17230699	650 - 60 - 4
V17230801	650 - 30 - 66
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V17230817	650 - 30 - 54
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V17231053	650 - 61 - 31
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V17231225	650 - 60 - 47
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V17621415	650 - 60 - 42
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V15551908	650 - 40 - 54
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V15568382	650 - 42 - 3
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V19510007	650 - 40 - 34
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V21030201	650 - 30 - 38
V21030206	650 - 30 - 43
V21030207	650 - 30 - 44

V21030302	650 - 30 - 6
V21030303	650 - 30 - 51
V21030402	650 - 30 - 65
V21030501	650 - 30 - 27
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V21030607	650 - 31 - 1
V21030801	650 - 30 - 58
V21040203	650 - 40 - 43
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V21045402	650 - 40 - 21
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V21058509	210 - 44 - 8
V21058510	210 - 44 - 2
V21058511	210 - 44 - 16
V21058512	210 - 44 - 13
V21058513	210 - 44 - 22
V21058517	210 - 44 - 20
V21058518	210 - 44 - 1
V21058519	210 - 44 - 4
V21058520	210 - 44 - 7
V21058522	210 - 44 - 10
V21058621	210 - 44 - 21
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V21060501	650 - 60 - 31
V21060502	650 - 60 - 28
V21060620	650 - 40 - 40
V21061202	650 - 61 - 21
V21061900	650 - 61 - 11
V21065104	650 - 61 - 26
V21065105	650 - 61 - 17
V21065600	650 - 61 - 18
V21065900	650 - 61 - 45
V21068411	650 - 42 - 1
V21068421	250 - 41 - 1
V21068426	210 - 44 - 19
V21068428	210 - 44 - 25
V21068510	650 - 43 - 8
V21070901	650 - 43 - 7
V21070904	650 - 43 - 15
V21081300	650 - 40 - 22
V21081303	650 - 40 - 18
V21090102	650 - 61 - 51
V21091102	650 - 60 - 3
	650 - 60 - 12

V21092605	650 - 40 - 23
V25050000	650 - 40 - 4
V25050102	250 - 50 - 32
V25050103	250 - 50 - 62
V25050200	250 - 50 - 1
V25050220	250 - 50 - 2
V25050230	250 - 53 - 1
V25050232	250 - 53 - 2
V25050235	250 - 50 - 8
	250 - 53 - 4
V25050301	250 - 50 - 47
V25050302	250 - 50 - 46
V25050401	250 - 51 - 4
V25050402	250 - 51 - 2
V25050403	250 - 50 - 26
V25050404	250 - 50 - 2
V25050407	250 - 50 - 42
V25050503	250 - 50 - 74
V25050504	250 - 50 - 73
V25050505	250 - 50 - 68
V25050506	250 - 50 - 5
V25050507	250 - 50 - 39
V25050508	250 - 50 - 67
V25050602	250 - 50 - 29
V25050603	250 - 50 - 69
V25050703	250 - 50 - 58
V25050704	250 - 50 - 61
V25050705	250 - 50 - 59

V25050706	250 - 50 - 55
V25050707	250 - 50 - 57
V25050708	250 - 50 - 54
V25050712	250 - 50 - 34
V25050713	250 - 50 - 35
V25050715	250 - 50 - 63
V25050801	250 - 50 - 18
V25050802	250 - 50 - 19
V25050803	250 - 50 - 8
V25050805	250 - 50 - 20
V25050912	650 - 40 - 3
V25051300	250 - 50 - 51
V25051302	250 - 50 - 52
V25052504	250 - 50 - 48
V63060602	650 - 61 - 2
V63060603	650 - 61 - 3
V63060620	650 - 43 - 9
V65010201	650 - 10 - 16
V65010203	650 - 10 - 11
V65010404	650 - 10 - 10
V65010405	650 - 10 - 15
V65010501	650 - 10 - 12
V65010503	650 - 10 - 6
V65010601	650 - 10 - 8
V65010800	650 - 10 - 3
V65020102	650 - 20 - 16
V65020103	650 - 20 - 19
V65020205	650 - 20 - 11

V16220195	650 - 40 - 5
V16220254	650 - 40 - 51
V16235006	250 - 50 - 10
V16260017	650 - 10 - 7
V16312204	650 - 60 - 2
V16312208	650 - 61 - 10
V16312227	650 - 30 - 35
V16312231	650 - 61 - 42
V16321216	650 - 30 - 31
V16520049	650 - 30 - 59
V17130656	650 - 40 - 41
V17130880	650 - 60 - 48
V17131024	650 - 10 - 1
V17131028	250 - 50 - 11
V17131228	650 - 40 - 36
V17131240	650 - 61 - 6
V17140524	650 - 43 - 21
V17140624	650 - 42 - 9
	250 - 50 - 4

V17140624	250 - 50 - 6
	250 - 50 - 23
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V17140816	650 - 40 - 52
	650 - 60 - 17
V17140824	650 - 40 - 30
	250 - 50 - 16
	650 - 60 - 19
	650 - 43 - 14
V65020305	650 - 20 - 10
V65020401	650 - 20 - 7
V65030102	650 - 30 - 18
V65030104	650 - 10 - 5
V65030105	650 - 30 - 13
V65030208	650 - 30 - 36
V65030502	650 - 30 - 30
V65030505	650 - 30 - 32
V65030605	650 - 30 - 1

V65030606	650 - 31 - 2
V65030608	650 - 30 - 46
V65030609	650 - 30 - 62
V65030610	650 - 30 - 48
V65030701	650 - 61 - 38
V65030702	650 - 61 - 37
V65030705	650 - 30 - 53
V65040101	650 - 40 - 24
V65040202	650 - 40 - 42
V65040206	650 - 40 - 44
V65040703	650 - 40 - 35
V65060501	650 - 61 - 28
V65060502	650 - 61 - 36
V65060610	650 - 40 - 39
V65068014	650 - 42 - 2
V65068025	250 - 41 - 2
	650 - 43 - 11
V65069026	650 - 43 - 10
V65081300	650 - 61 - 47
V65090106	650 - 40 - 28