

SKIDSTEER

M10X



**INSTRUCTION
MANUAL
and
PARTS LISTING**
From Serial No. 231369

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INTRODUCTION

THE OPICO **SKIDSTER** MINI LOADER IS A COMPACT EARTHMOVING MACHINE AND MOBILE HYDRAULIC POWER PACK. THE USE OF HYDRAULICS FOR TRANSMISSION AND THE NORMAL LIFT AND CROWN FUNCTIONS HAS CREATED A VERSATILE HIGHLY MANOEUVRABLE PIECE OF EQUIPMENT THAT IS EASY TO OPERATE AND MAINTAIN AND IS CAPABLE OF A MUCH HIGHER WORK OUTPUT THAN ITS SIZE INDICATES.

THE ENGINE SUPPLIES POWER TO THE HYDRAULIC SYSTEM VIA A GEAR PUMP WITH THE OIL DISTRIBUTED TO THE VARIOUS SERVICES THROUGH A FIVE SPOOL DIRECTIONAL CONTROL VALVE. HYDROSTATIC WHEEL MOTORS PROVIDE THE DRIVE TO EACH OF THE REAR WHEELS AND A CHAIN DRIVE TO EACH OF THE FRONT WHEELS GIVES AN EFFECTIVE FOUR WHEEL DRIVE SYSTEM FOR INCREASED TRACTION. THIS ARRANGEMENT ALLOWS THE **SKIDSTER** TO TURN WITHIN ITS OWN LENGTH AND MANOEUVRE IN CONFINED AREAS.

THE **SKIDSTER** IS CAPABLE OF OPERATING A WIDE RANGE OF ACCESSORIES THAT SHARE THE SAME QUICK ATTACH MOUNTING SYSTEM. EACH ACCESSORY IS PURPOSE BUILT FOR THE **SKIDSTER** AND IS DESIGNED TO INCREASE THE MACHINES VERSALITY. POWERED ACCESSORIES ARE CONNECTED TO THE AUXILIARY POWER TAKE OFF ON THE **SKIDSTER** BY QUICK RELEASE COUPLINGS AND FULL SYSTEM HYDRAULIC POWER IS AVAILABLE FOR ALL EXTERNAL OPERATIONS.

SAFETY FIRST

THIS SAFETY ALERT SYMBOL POINTS OUT IMPORTANT SAFETY PRECAUTIONS



- 1 READ THE OPERATORS MANUAL AND ALL SUPPLEMENTS BEFORE USING THE MACHINE
- 2 WEAR CLOSE FITTING PROTECTIVE CLOTHING AND FOOTWEAR
- 3 KEEP HANDS FEET AND CLOTHING AWAY FROM ALL MOVING PARTS
- 4 DO NOT ALLOW MORE THAN ONE PERSON ON THE **SKIDSTER** AT ANY ONE TIME
- 5 KEEP NAKED LIGHTS CIGARETTES ETC AWAY WHEN REFUELLING THE **SKIDSTER**

SAFETY FIRST

- 6 DO NOT OPERATE ANY OF THE CONTROL LEVERS INCLUDING THE AUXILIARY HYDRAULIC POWER TAKE-OFF UNLESS YOU ARE STANDING WITH BOTH FEET ON THE PLATFORM HOLDING THE HAND GRIPS FIRMLY
- 7 **DO NOT PLACE FEET UNDER THE REAR PLATFORM**
- 8 DO NOT ALLOW ANYONE TO RIDE IN THE BUCKET
- 9 KEEP PEOPLE AND ANIMALS WELL AWAY WHEN OPERATING THE **SKIDSTER**
- 10 ENSURE ADEQUATE VENTILATION WHEN OPERATING THE **SKIDSTER** IN CONFINED AREAS
- 11 **DO NOT DRIVE THE SKIDSTER ACROSS STEEP SLOPES**
- 12 ALWAYS PARK THE **SKIDSTER** WITH THE BUCKET OR OTHER ATTACHMENT ON THE GROUND IF LEAVING UNATTENDED SWITCH OFF THE ENGINE AND REMOVE THE KEY
- 13 **DO NOT CARRY LOADS WITH THE ARMS RAISED ALWAYS CARRY LOADS CLOSE TO THE GROUND DO NOT STEP OFF THE PLATFORM WITH THE LOAD RAISED**
- 14 **DO NOT EXCEED THE MAXIMUM LOAD CAPACITY (225 KG) UNDER ANY CIRCUMSTANCES**
- 15 OPERATE ALL LEVERS WITH A SMOOTH CONTROLLED ACTION **DO NOT JERK** OPERATE AT A LOWER SPEED OVER ROUGH TERRAIN
- 16 USE EAR PROTECTION WHEN OPERATING THE **SKIDSTER** IN CONFINED AREAS ESPECIALLY WITH THE BREAKER ATTACHMENT
- 17 UNDER THE CONSTRUCTION REGULATIONS PERSONS UNDER THE AGE OF 18 ARE NOT PERMITTED TO OPERATE THE **SKIDSTER** UNLESS UNDERGOING TRAINING FROM A COMPETENT PERSON

SAFETY FIRST

NOISE



THE ABOVE QUOTED SOUND PRESSURE LEVEL OF 88dBA FALLS BETWEEN THE FIRST AND SECOND ACTION LEVELS AS DESCRIBED IN THE NOISE AT WORK REGULATIONS. CONSEQUENTLY THE OPERATOR SHOULD BE PROVIDED WITH HEARING PROTECTION.

SAFETY FIRST

HYDRAULIC SYSTEMS



ESCAPING HYDRAULIC FLUID UNDER PRESSURE CAN PENETRATE THE SKIN CAUSING SERIOUS INJURY

RELIEVE PRESSURE BEFORE UNCOUPLING HYDRAULIC PIPES

TIGHTEN ALL CONNECTIONS BEFORE APPLYING PRESSURE

KEEP HANDS AND BODY AWAY FROM PINHOLES AND NOZZLES THAT EJECT FLUIDS UNDER HIGH PRESSURE

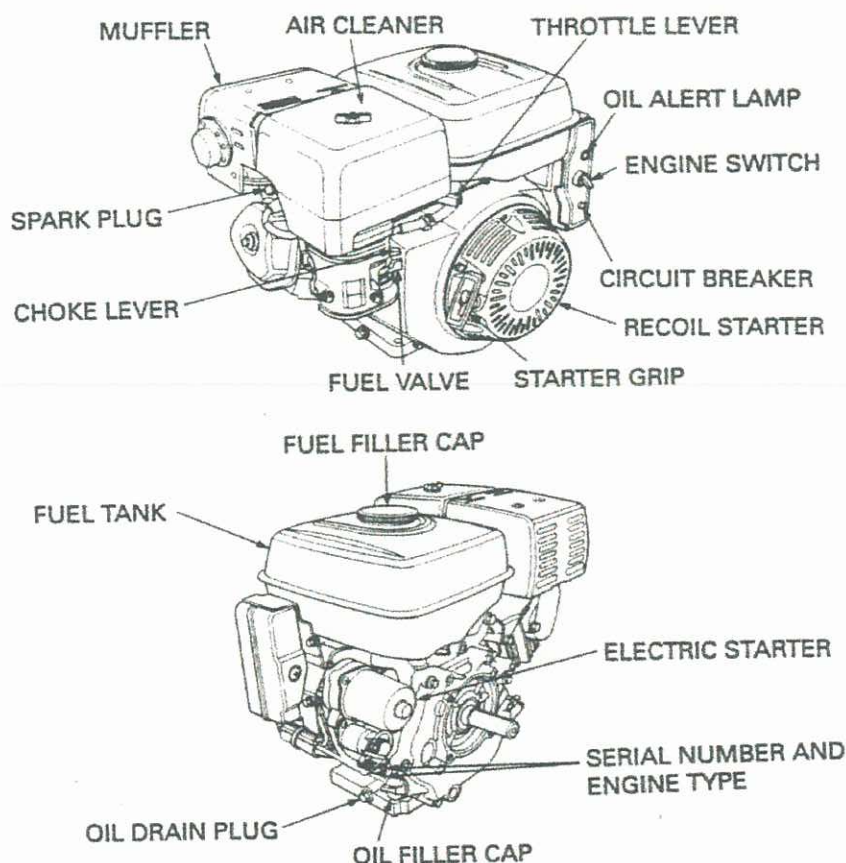
USE A PIECE OF CARDBOARD TO SEARCH FOR LEAKS

IF ANY FLUID IS INJECTED INTO THE SKIN SEEK MEDICAL ASSISTANCE IMMEDIATELY OR GANGRENE MAY RESULT

**FAILURE TO HEED WARNING
MAY RESULT IN SERIOUS INJURY
OR DEATH**

CONTROLS

**FOR DIESEL ENGINE CONTROLS PLEASE
REFER TO DIESEL SUPPLEMENT**



ENGINE CONTROLS

ENGINE SWITCH

The engine switch is a three position switch. Clockwise from the OFF position are the ON and START positions.

CHOKE LEVER

Should be used to start the engine from cold. To operate the choke push the control lever to the left, return it to the open position as soon as the engine is warm.

FUEL VALVE

When starting the engine move the fuel valve to the ON position. Always turn the fuel valve to the OFF position when the machine is not being used, or when it is being transported.

FUEL FILLER CAP

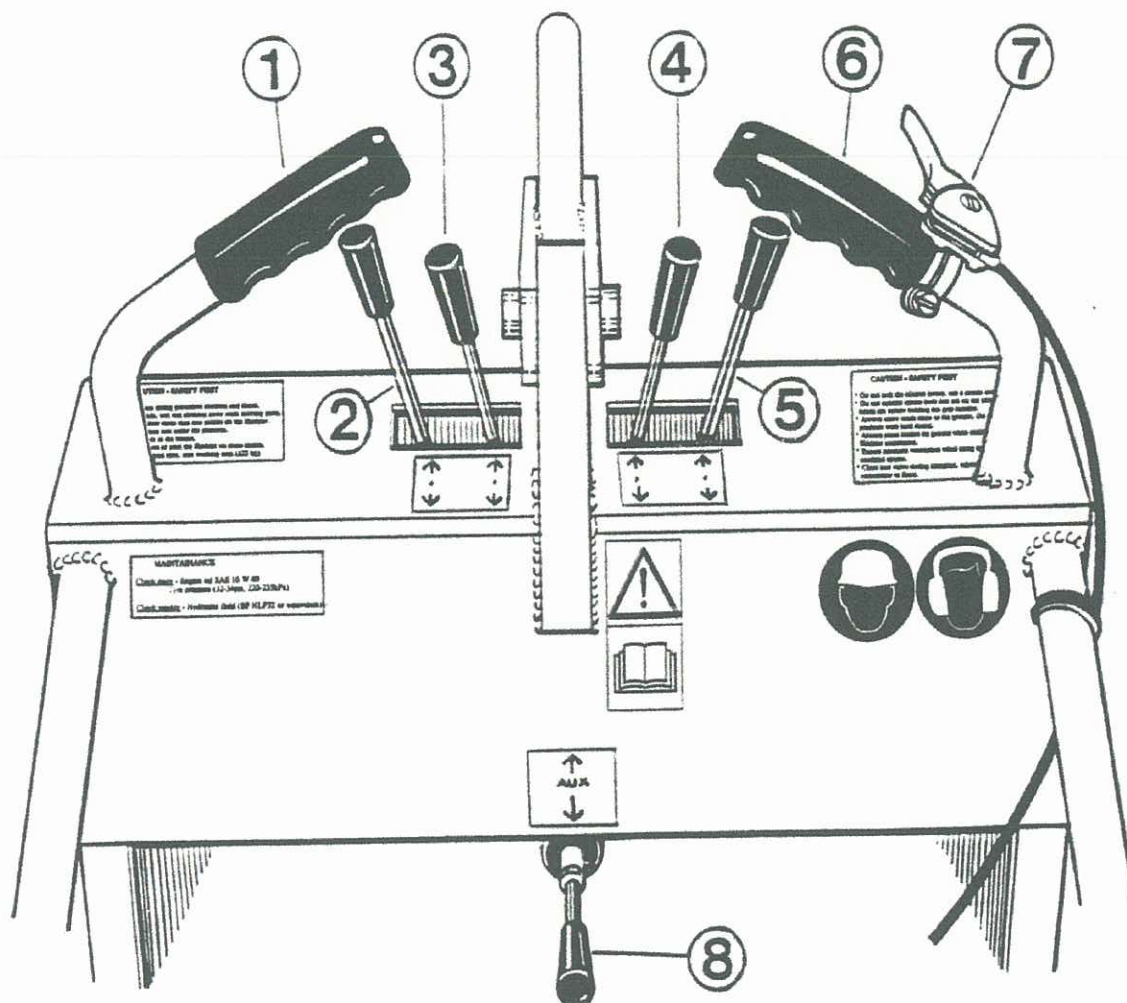
Always ensure the filler cap is correctly fitted after refuelling. (Use unleaded or low leaded fuel).

RECOIL STARTER

For manual starting in the case of a battery failure. (See "starting the engine").

CONTROLS

ON THE TOP FACE OF THE **SKIDSTER** ARE FOUR SPRING CENTRED LEVERS THAT CONTROL THE BASIC MINI LOADER FUNCTIONS. THE AUXILIARY POWER LEVER (ON THE REAR FACE) IS FOR USE WITH POWERED ACCESSORIES.



- 1 LEFT GRIP HANDLE
- 2 ARM LIFT LEVER
- 3 LEFT HAND DRIVE LEVER
- 4 RIGHT HAND DRIVE LEVER

- 5 ACCESSORY TILT LEVER
- 6 RIGHT GRIP HANDLE
- 7 HAND THROTTLE
- 8 AUXILIARY LEVER

CONTROLS

DRIVE CONTROLS (3 AND 4)

The left hand drive lever controls the wheels on the left hand side and the right hand drive lever controls the wheels on the right hand side.

Engage the drive levers slowly because only a small movement of the levers will cause motion.

All lever movements should be smooth and gradual.

To drive the loader straight forward move both control levers forward the same amount.

To drive the loader straight backward move both control levers back the same amount.

The loader is steered by moving one lever further forward than the other.

To turn left move the right lever further ahead than the left lever. To turn right move the left lever further ahead than the right lever.

To achieve a spin-turn or "skidsteer" move one lever forward and the other backward the same amount.

WARNING

DO NOT MOVE ANY OF THE CONTROL LEVERS UNLESS STANDING WITH BOTH FEET ON THE PLATFORM AND HOLDING THE GRIP HANDLES

WARNING

USE EXTREME CAUTION WHEN STOPPING. IF THE BUCKET OR ATTACHMENT IS RAISED THE MACHINE CAN TIP. KEEP ALL MOVEMENTS SMOOTH AND GRADUAL WHEN MANOEUVERING WITH LIFT ARMS RAISED. ALL NEW OPERATORS MUST WORK THE MACHINE IN A SAFE OPEN AREA TO BECOME FAMILIAR WITH THE OPERATING CHARACTERISTICS.

CONTROLS

LIFT LEVER CONTROL (2)

The outside control lever located on the left hand side controls the lift. Pushing the lever forward lowers the lift arm and pulling the lever back raises the lift arm. In these two positions the lever is spring centred to neutral upon release of the lever.

TILT CONTROL LEVER (5)

The outside control lever located on the right hand side controls the tilting action of the attachments such as buckets, forks, etc. Pushing the lever forward tilts the attachment forward and pulling the lever back tilts the attachment back. The lever is spring centred to neutral upon release.

AUXILIARY CONTROL LEVER (8)

The auxiliary control lever is located on the rear face and can be used to control accessory attachments such as Post Hole Borers, Trenchers, etc. Accessory hydraulic hoses are connected to the quick couplers at the front of the machine. Lifting the auxiliary control lever up puts the attachment in forward motion and pushing it down reverses the motion. The lever is not spring centred and must be returned to neutral manually.

WARNING

ENSURE THAT THE AUXILIARY LEVER IS KEPT NEUTRAL WHEN NOT BEING USED TO AVOID WASTING POWER. THE ENGINE IS DIFFICULT TO START IF THE LEVER IS ENGAGED. HYDRAULIC OIL MAY OVERHEAT.

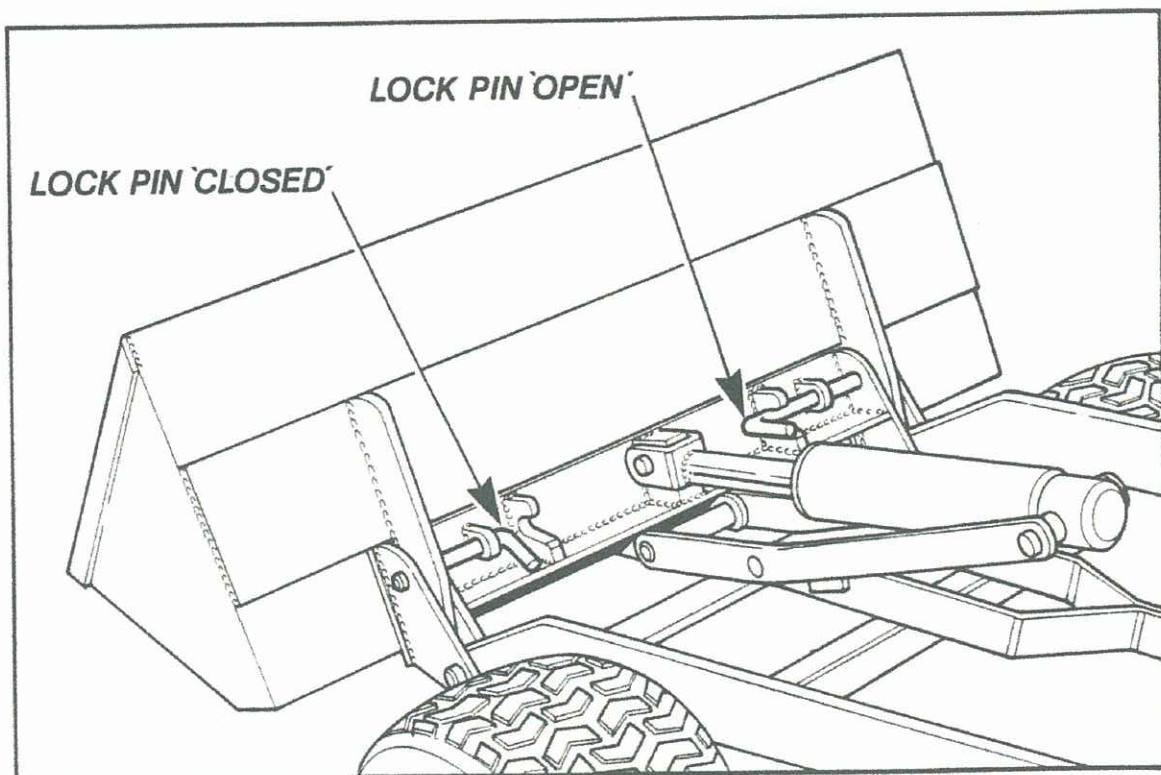
CONTROLS

ATTACHMENT LOCK PINS

The mounting plate design allows changing from one attachment to another quickly without removing bolts and pins.

The two pins are located on the inner side and along the top of the attachment frame. To unlock attachments pull up the pin handle and slide towards the centre.

To lock attachments first check that the lock pins align with and enter freely into the attachments holes. Slide the pins into the attachment mounting bars and lock the pin handle in a downward position.



WARNING

AFTER HOOK-UP TO ATTACHMENT
CHECK TO BE SURE LOCK PINS ARE FULLY ENGAGED
AND LOCKED INTO POSITION

OPERATION

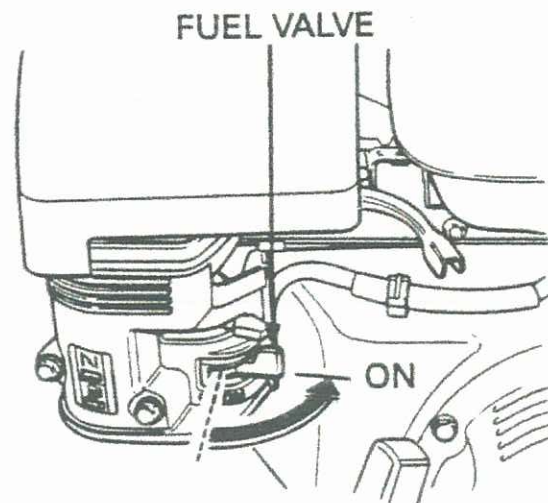
PRE-STARTING INSPECTION AND PREPARATION

BEFORE STARTING THE SKIDSTER FOR THE FIRST TIME EACH DAY CARRY OUT THE FOLLOWING CHECKS AND SERVICE:

- 1 CHECK ENGINE CRANKCASE OIL LEVEL
- 2 CHECK ENGINE FUEL AND OPEN FUEL SHUT-OFF VALVE IF CLOSED
- 3 CHECK HYDRAULIC FLUID LEVEL IN TANK
- 4 CHECK FOR FUEL ENGINE OIL OR HYDRAULIC OIL LEAKS
- 5 VISUALLY INSPECT ALL HOSES, LINES, FITTINGS, TYRES, PIVOT POINTS, MOUNTING PINS, NUTS AND BOLTS, SAFETY SHIELDS AND DECALS FOR POSSIBLE FAILURE OR LOOSENESS
- 6 CHECK THAT ALL CONTROLS ARE IN THE NEUTRAL POSITION

STARTING THE ENGINE

- 1 TURN THE FUEL VALVE TO THE ON POSITION



CAUTION

ENSURE THAT THE AUXILIARY LEVER IS KEPT IN THE NEUTRAL POSITION WHEN NOT IN USE TO AVOID WASTING POWER. THE ENGINE IS DIFFICULT TO START IF THE LEVER IS ENGAGED

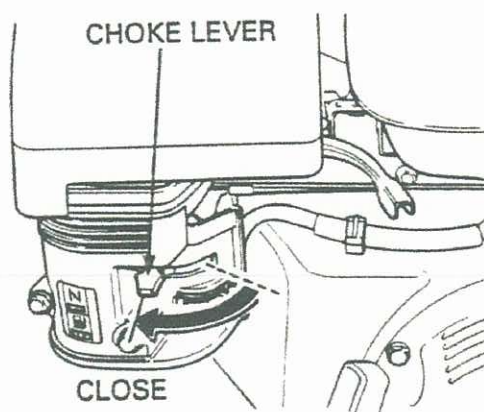
OPERATION

STARTING THE ENGINE

- 2 MOVE THE CHOKE LEVER TO THE CLOSE POSITION

NOTE: THE CHOKE MAY NOT BE NEEDED IF THE ENGINE IS WARM OR THE AIR TEMPERATURE IS HIGH

SET THE THROTTLE ABOUT ONE QUARTER OPEN



- 3 START THE ENGINE

* ELECTRIC STARTER:

WITH THE ELECTRIC START TURN THE ENGINE SWITCH TO THE **START** POSITION AND HOLD IT THERE UNTIL THE ENGINE STARTS

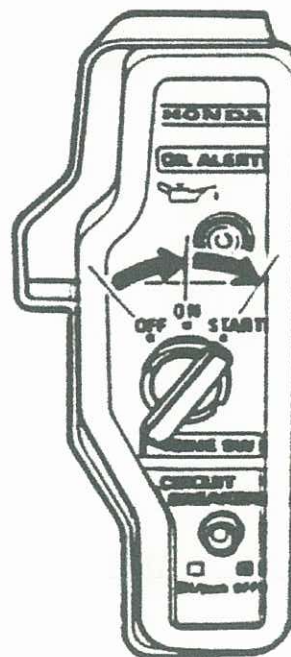
NOTE: DO NOT USE THE ELECTRIC STARTER FOR MORE THAN **5** SECONDS OR STARTER MOTOR DAMAGE MAY OCCUR. IF THE ENGINE FAILS TO START RELEASE THE SWITCH AND WAIT **10** SECONDS BEFORE OPERATING THE STARTER AGAIN

WHEN THE ENGINE STARTS ALLOW THE ENGINE SWITCH TO RETURN TO THE **ON** POSITION

* RECOIL STARTER

TO USE THE RECOIL STARTER TURN THE ENGINE SWITCH TO THE **ON** POSITION

ENGINE SWITCH



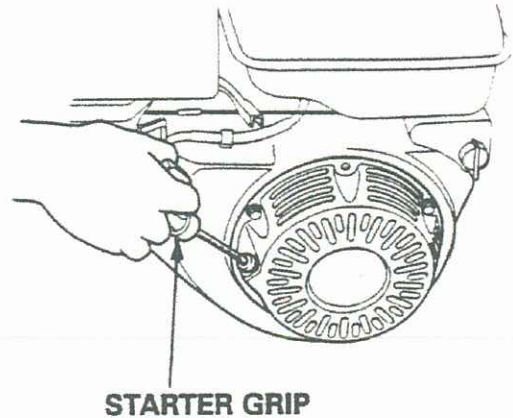
OPERATION

STARTING THE ENGINE

- 4 PULL THE STARTER GRIP LIGHTLY UNTIL RESISTANCE IS FELT THEN PULL BRISKLY

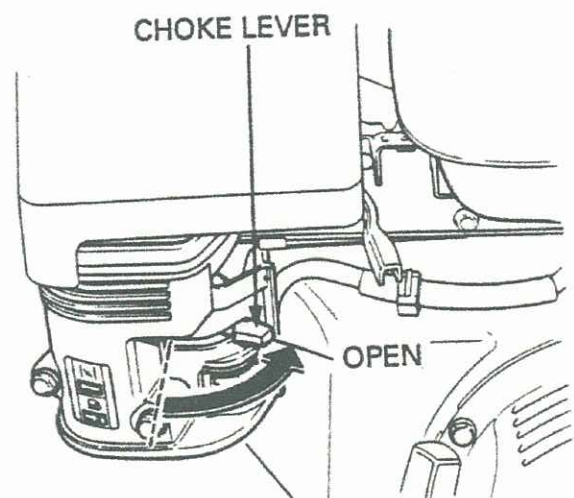
NOTE: DO NOT ALLOW THE STARTER GRIP TO SNAP BACK AGAINST THE ENGINE

RETURN IT GENTLY TO PREVENT DAMAGE TO THE STARTER



- 5 AS THE ENGINE WARMS UP GRADUALLY MOVE THE CHOKE LEVER TO THE OPEN POSITION

POSITION THE THROTTLE LEVER FOR THE DESIRED ENGINE SPEED



STOPPING THE ENGINE

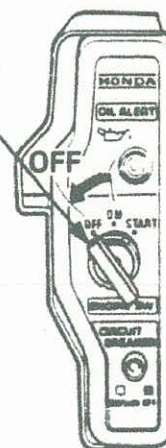
- 1 PARK THE **SKIDSTER** ON LEVEL GROUND
- 2 LOWER THE LIFT ARMS AND GROUND THE BUCKET

OPERATION

STOPPING THE ENGINE

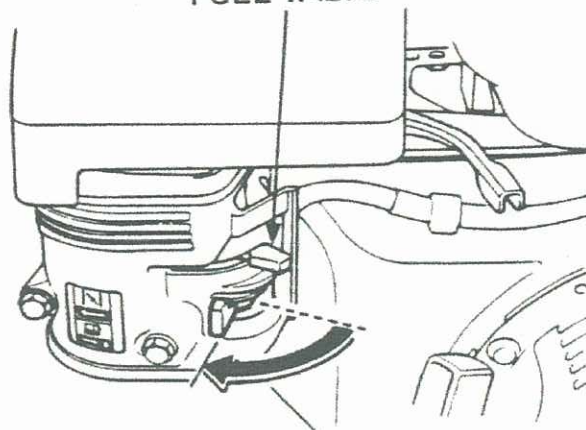
- 3 CLOSE THE THROTTLE FULLY AND TURN THE ENGINE SWITCH TO THE OFF POSITION

ENGINE SWITCH



- 4 TURN THE FUEL VALVE TO THE OFF POSITION

FUEL VALVE



- 5 CHECK OR REPLACE AUXILIARY CONTROL LEVER IN NEUTRAL POSITION AND REMOVE THE KEY FROM ENGINE SWITCH

FOR ENGINES OTHER THAN HONDA PLEASE CONSULT THE ENGINE MANUFACTURERS HANDBOOK SUPPLIED WITH THE MACHINE.

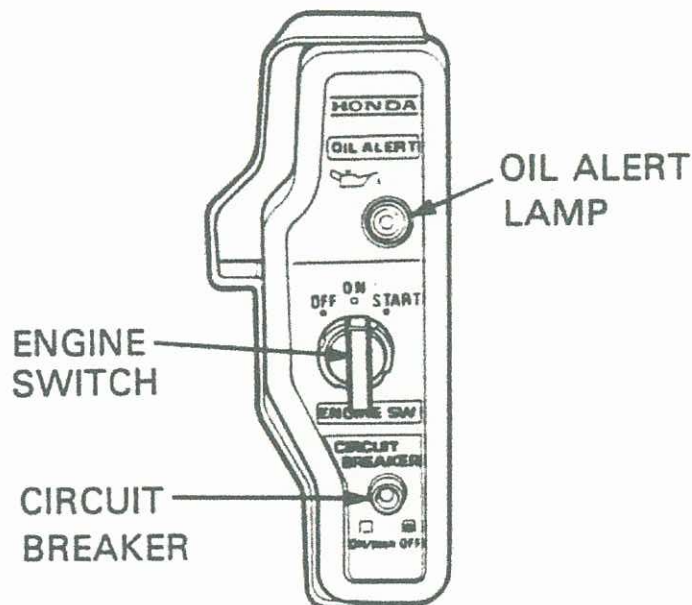
FOR FURTHER INFORMATION REGARDING THIS HONDA ENGINE PLEASE REFER TO THE HONDA OWNERS MANUAL OR YOUR LOCAL HONDA AGENT.

OPERATION

OIL ALERT SYSTEM

The **OIL ALERT** system is designed to prevent damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit the **OIL ALERT** system will automatically shut down the engine. The engine switch will remain in the **ON** position.

If the **OIL ALERT** system shuts down the engine, the **OIL ALERT** lamp will flash when you operate the starter and the engine will not start. If this occurs add engine oil up to the correct level.



CIRCUIT BREAKER

The circuit breaker protects the battery charging circuit. A short circuit or a battery connected in reverse polarity will trip the circuit breaker.

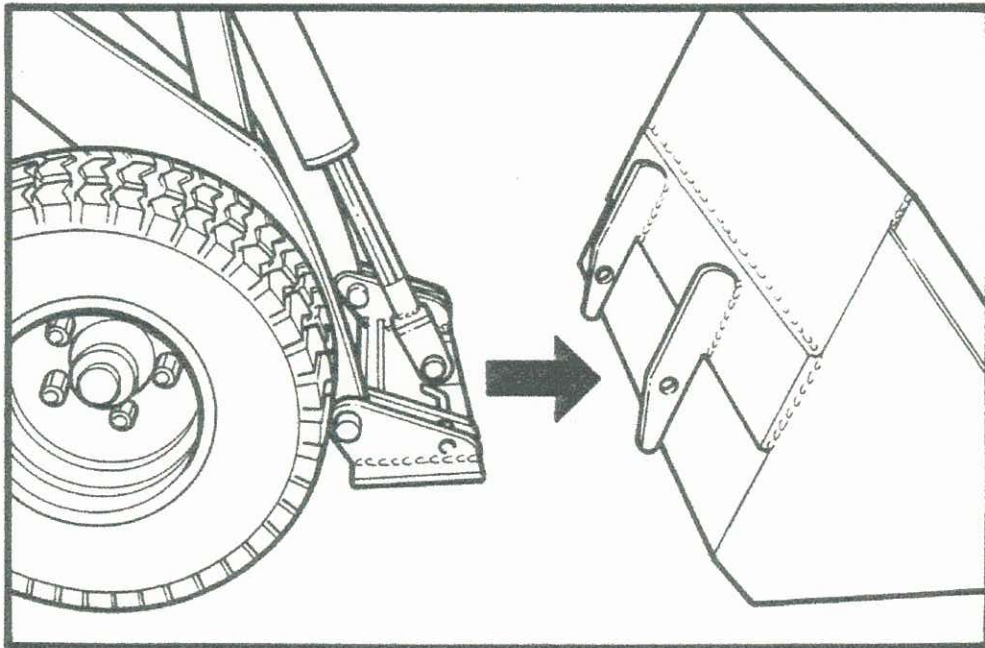
The green indicator inside the circuit breaker will pop out to show that the circuit breaker has switched off. If this occurs determine the cause of the problem and correct it before resetting the circuit breaker.

Push the circuit breaker button to reset.

OPERATION

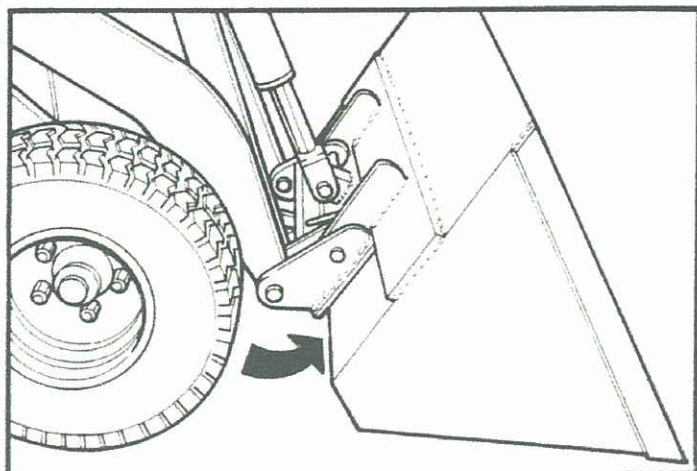
CHANGING ACCESSORIES

Removal of the bucket is easily and quickly accomplished by lifting the arms and tipping the bucket forwards until its back plate is horizontal. The two locking pins on the SKIDSTER's mounting plate can then be easily withdrawn and the bucket removed by lowering the arms and tipping the bucket further when it will slide off. Alternatively the bucket may be lifted off by hand. By hand is the best way of removing accessories other than the bucket. Replacement of any attachment is the reversal of this procedure.



WARNING

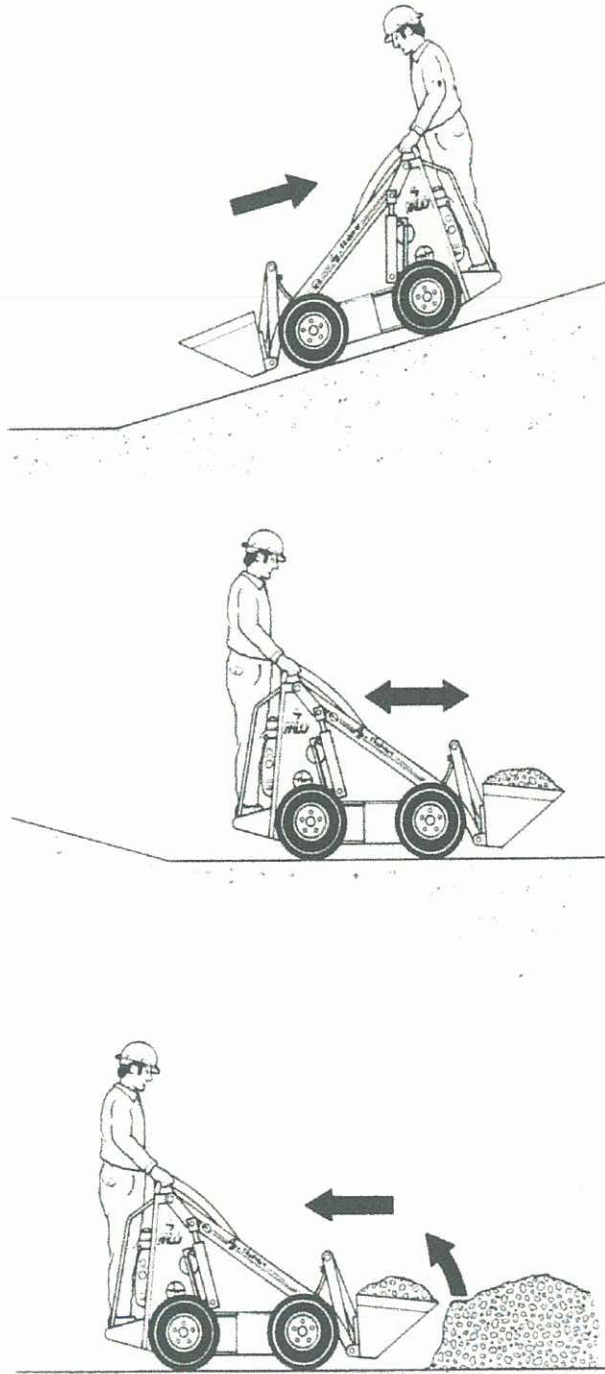
AFTER HOOK-UP TO THE
ATTACHMENT CHECK TO ENSURE
LOCK PINS ARE FULLY ENGAGED
AND LOCKED INTO POSITION



OPERATION

OPERATIONAL PROCEDURE

LOADER OPERATIONAL PROCEDURE AND SUGGESTIONS IN THIS MANUAL ARE BASED ON THE USE OF A BUCKET



OPERATING SUGGESTIONS

Install an attachment (bucket). Drive carefully to a clean and level area and practice operating the loader at a slow rate until familiar with the operation of all controls.

Hydraulic power transmission is instantaneous. When using the drive levers sudden movement will result in acceleration to full speed and a very jerky ride. Use smooth and gradual movements when using the drive levers.

For efficient operation of the loader keep the work area small and as level as possible.

Decrease cycle time by "skid" turning rather than backing up, using a slow turn and then going forward.

When driving on slopes keep the heaviest end of the loader upward. When driving on a slope with an empty bucket back up the slope in reverse and drive down the slope forward. When driving on a slope with a load drive up the slope forward and back down the slope in reverse.

Fill the bucket to rated capacity. Turning is easier with a full load than with a partial load.

WARNING

ALWAYS CARRY THE BUCKET LOW WHEN MOVING. DRIVE DIRECTLY UP AND DOWN INSTEAD OF ACROSS A SLOPE.

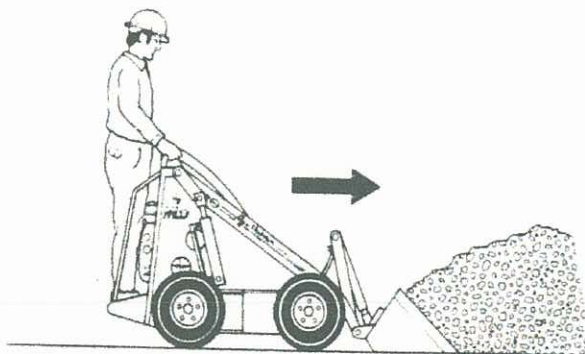
WARNING

IF OPERATING THE LOADER INDOORS MAKE SURE THE BUILDING IS WELL VENTILATED.

To increase machine life, let the engine warm completely before starting operations each day. Avoid "over-heating" or "lugging" the loader.

OPERATION

OPERATIONAL PROCEDURE



FILLING AND DUMPING A BUCKET

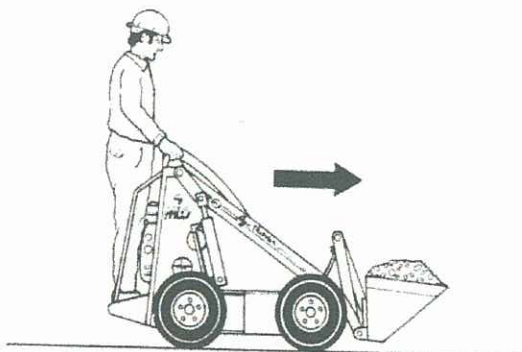
Approach the pile with the lift arms fully down and bucket cutting edge just skimming the top of the ground.

As soon as the bucket is full tilt bucket back and back away from the pile.

When dumping, raise the bucket high enough to clear stock pile or sides of container being loaded.

Drive slowly forward until the bucket is over the dumping area and tilt the bucket forward until it completely empties.

Tilt bucket back up if necessary to clear container sides and back away.



WARNING

USE EXTREME CAUTION WHEN STOPPING. IF THE BUCKET OR ATTACHMENT IS RAISED THE MACHINE CAN TIP. KEEP ALL MOVEMENTS SMOOTH AND GRADUAL WHEN MANOEUVERING WITH LIFT ARMS RAISED. ALL NEW OPERATORS MUST WORK THE MACHINE IN A SAFE OPEN AREA TO BECOME FAMILIAR WITH ITS OPERATING CHARACTERISTICS.

WARNING

NEVER STEP OFF THE OPERATOR PLATFORM WITH THE LOAD RAISED.

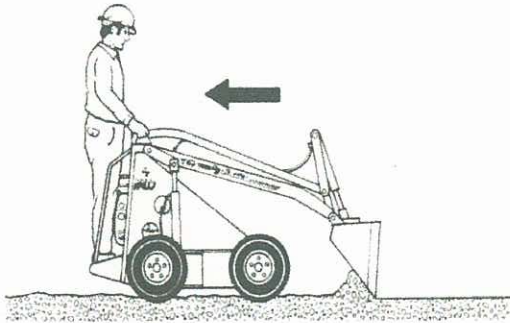


LEVELLING

To spread material on uneven ground raise lift arms and tilt bucket forward while driving slowly forward.

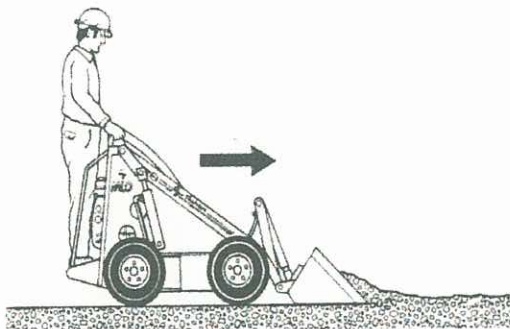
OPERATION

OPERATIONAL PROCEDURE



To level a filled area tilt bucket forward and drive the machine backwards to drag the bucket and spread the material.

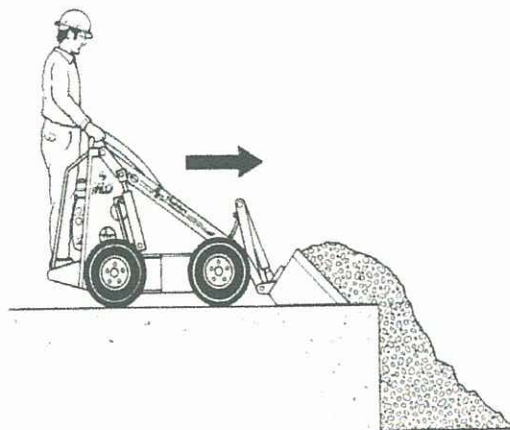
Another method of levelling is to travel forward with the bucket down and level full of material and push the excess into low areas. Depth is controlled by tilting the bucket slightly up or down.



BACKFILLING

When filling a trench or a hole drive up to the hole with the bucket low or push the material up to the edge.

Tilt bucket forward as soon as it reaches the edge of the hole and when necessary raise lift arms to empty the bucket.



CAUTION

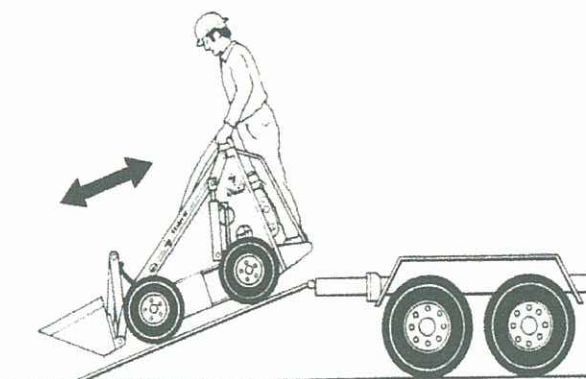
NEVER TOW THE LOADER
DAMAGE MAY RESULT

When the machine is transported on a truck or trailer correct ramps must be used for loading.

A **SKIDSTER** with an empty bucket or no attachment should be driven backwards up a ramp onto the trailer or forward down a ramp.

After the **SKIDSTER** is driven onto the transporting vehicle lower any attachments and install chains to hold the **SKIDSTER** during sudden stops.

Close the fuel valve when the **SKIDSTER** is to be transported. Vibration during transport could cause the carburettor to flood.



OPERATION

OPERATIONAL PROCEDURE

Although the SKIDSTER is fitted with "DEAD MAN" controls it is possible for the unit to creep if incorrectly parked due to internal leakage normally found in hydrostatic transmission systems.

ALWAYS PARK WITH BUCKET OR ATTACHMENT IN CONTACT WITH THE GROUND

To stop the engine reduce speed with the throttle and turn the start key to the OFF position. If the SKIDSTER is to be left unattended or transported the fuel shut-off valve must be closed to prevent the carburettor from flooding.

When loading from a pile of material have the arms at their lowest and the bucket level. When it is nearly full or further forward motion impossible crowd the bucket fully before lifting the arms. This decreases the lifting resistance and promotes efficient tear-out.

When transporting material in the bucket keep the bucket in its lowest position. This keeps the SKIDSTER's centre of gravity low and maximises stability. Only raise the load when close to the dumping point.

When scraping, levelling or surface stripping, lower the bucket to ground level and tilt the front down raising the front wheels slightly. Drive forward using the rear wheels only controlling the amount of "bite" with the crowd lever.

The material may be dumped into a small truck or trailer or repositioned on site.

DO NOT STEP OFF THE OPERATORS PLATFORM WITH THE LOAD RAISED.

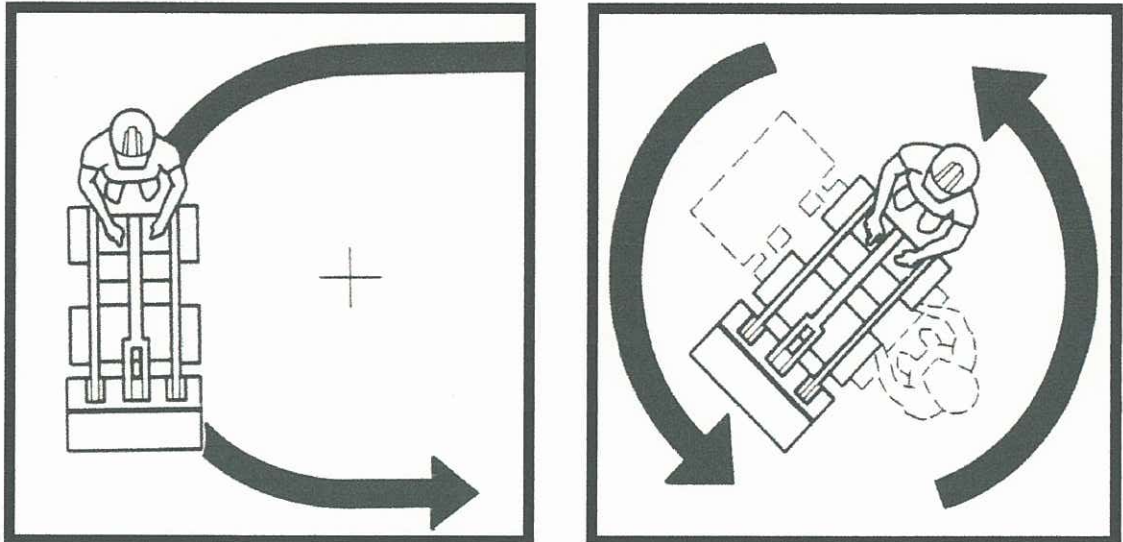
OPERATION

MANOEUVRING

The **SKIDSTER** can be made to travel forwards by pushing the two inner control levers forwards together. A turn is achieved by releasing the right-hand lever to turn right and the left hand lever to turn to the left. The **SKIDSTER** can be made to turn in it's own length by applying equal forward and reverse power to opposite sides of the machine. Gradual turns are achieved by partially releasing one of the levers when proceeding forwards.

When parking the **SKIDSTER** always lower the bucket or accessory to the ground.

DO NOT PARK ON STEEP SLOPES



OPERATION

STARTING DIFFICULTIES

Slow cranking indicates discharged battery or auxiliary valve open with external services pipes uncoupled.

Engine cranks but does not fire indicates fuel blockage, flooded air filter or spark plug problems. Serious air filter flooding may occur if the fuel tap has been left open during transport.

CAUTION

The **SKIDSTER** is extremely powerful for its size and capable of a sustained high work output. The correct operator technique is not difficult to master and a few moments studying this section will enable you to get the best from your machine.

Hydraulic power transmission is instantaneous. When using the control levers sudden movements will cause a jerky and uncomfortable ride together with poor control over the action of the bucket or accessory. Ease the levers either forwards or backwards. Engine throttle openings should be kept to the minimum necessary to achieve the task or until the operator feels sufficiently confident.

If the bucket is tipped when the arms are in their lowest position the front of the **SKIDSTER** will lift off the ground. This is the standard operation when scraping or levelling. The operators platform will prevent the machine from turning over backwards.

MAINTENANCE

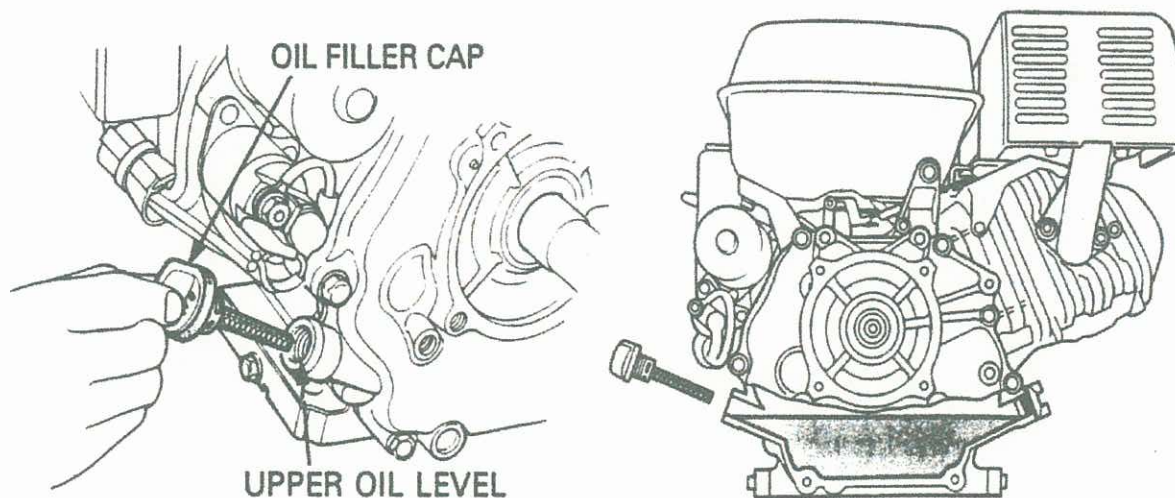
WARNING

DO NOT SERVICE
LOADER WHEN
ENGINE IS RUNNING

Regular maintenance as set out in this manual will prolong the life and working efficiency of your SKIDSTER. These instructions are designed as a guide for normal operating conditions. If the SKIDSTER is operated under extreme conditions then all service intervals should be shortened accordingly.

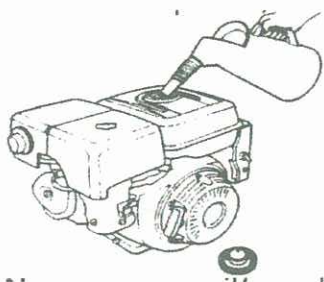
DAILY OR EVERY 8 HOURS

Engine oil level. Oil filter/dipstick on lower offside of engine crankcase. Access through inspection port in chassis side plate. Top up as required with 10w-40 oil.



FUEL

Use automotive gasoline (Unleaded or lowleaded is preferred to minimize combustion chamber deposits).



Never use an oil/gasoline mixture or dirty gasoline in the fuel tank.

WARNING

TAKE EXTREME CARE WHEN
ADDING FUEL TO A LOADER
WHEN THE ENGINE IS HOT
DO NOT ADD FUEL WITH THE
ENGINE RUNNING

NOTICE

GASOLINE SUBSTITUTES ARE NOT RECOMMENDED THEY MAY BE
HARMFUL TO THE FUEL SYSTEM COMPONENTS

MAINTENANCE

Check tyre pressures and inflate as required:

TYRE PRESSURES:

4" WIDE TYRES	- 45 PSI
7" WIDE TYRES	- 35 PSI
8" WIDE TYRES	- 30 PSI

Check the air cleaner elements: clean and/or replace as required.

Check for fuel, engine oil or hydraulic oil leaks.

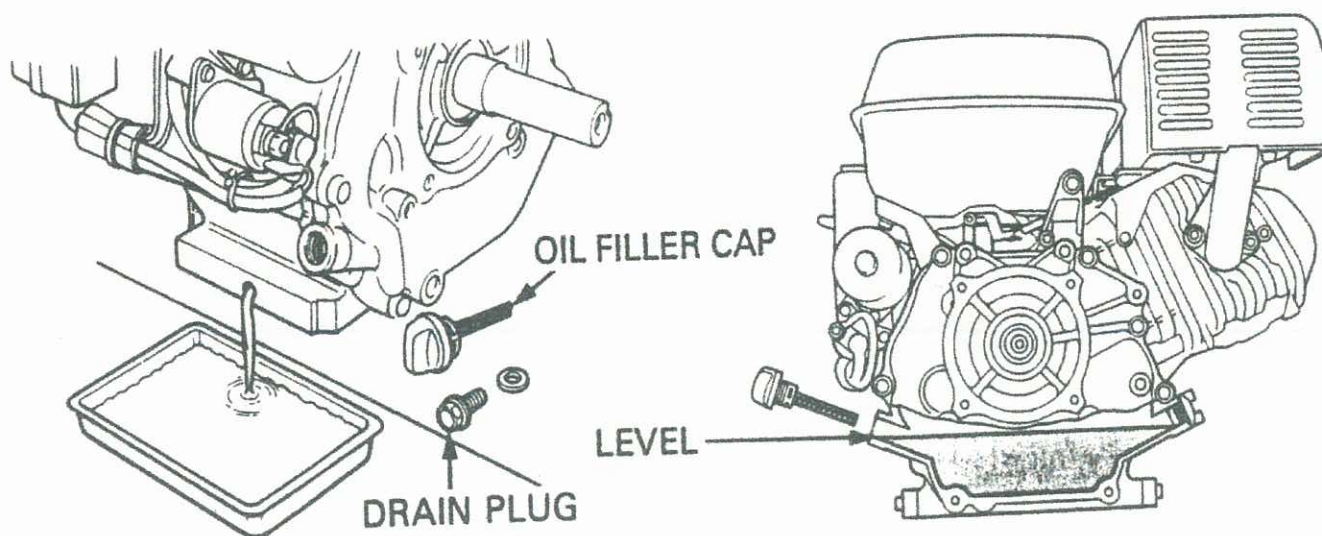
Check that the wheel nuts are secure: tighten as required.

Visually inspect all hoses, pivot points etc for wear and all bolts for tightness.

Check the acid level in the battery: top up as required.

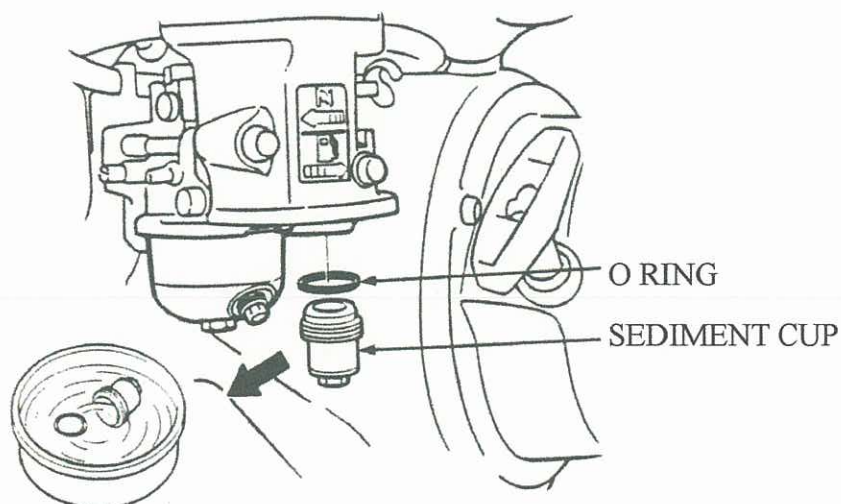
WEEKLY OR EVERY 40 HOURS

Change engine oil. Drain when the engine is warm to ensure rapid and complete emptying of the sump.
Refill with 1.1 litres of SAE 10W-40 oil.

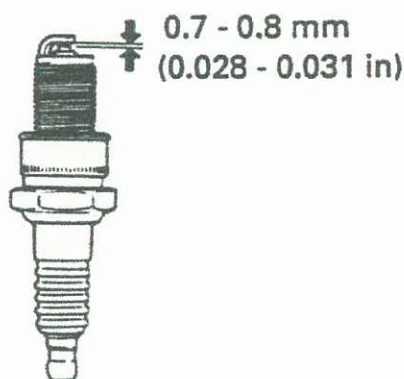


MAINTENANCE

Clean the fuel sediment cup on the carburettor. Turn OFF the fuel valve. Remove the sediment cup and O-ring, wash thoroughly and dry. Reinstall them and tighten securely. Turn on the fuel valve and check for leaks before starting the engine.

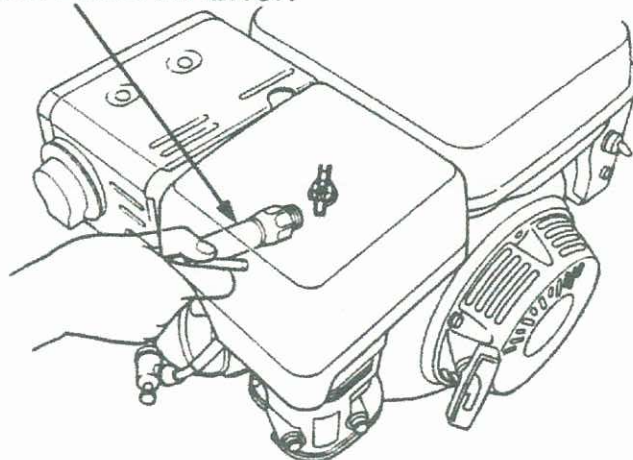


Clean and adjust the spark plug. Remove the spark plug and clean with a wire brush. Visually inspect the spark plug, if the insulator is cracked or chipped a new spark plug should be fitted. Check the gap and reset as shown.



Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross threading. When seated tighten with a plug wrench to compress the washer.

SPARK PLUG WRENCH

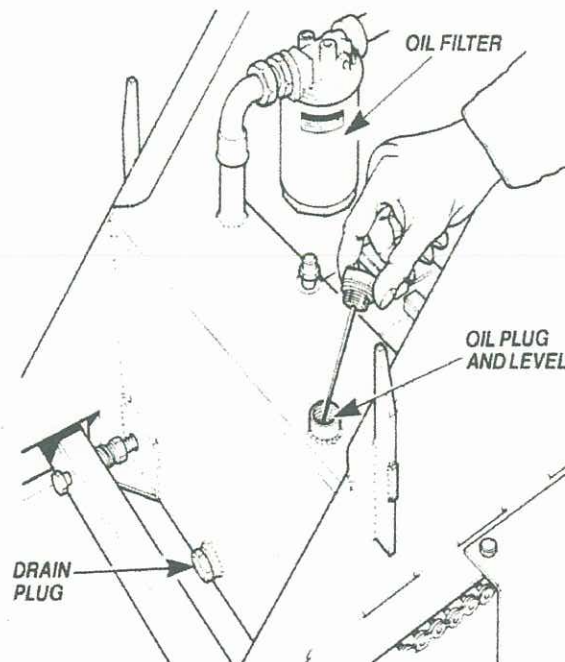


RECOMMENDED SPARK PLUG:

**BP6ES, BPR6ES (NGK)
W20EP-U, W20EPR-U (ND)**

MAINTENANCE

Hydraulic fluid. Check the level on the dipstick/filler plug situated on the front nearside of the oil reservoir. Top up as required with BP HLP32 or equivalent. Use only clean fluid, and keep the area around the filler clean.



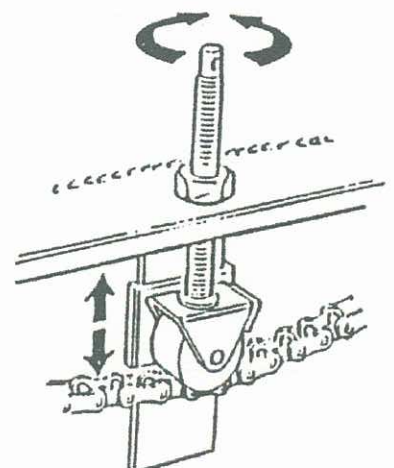
Check and adjust chain tension: The chain tension is checked by lifting the front of the **SKIDSTER** so that the front wheels are clear of the ground. This is easily accomplished by tipping the bucket forward until the front of the machine lifts clear. Grasp the front wheel and attempt to turn it backwards and forwards. If the wheel moves at all in relation to the rear wheel then the chain requires adjustment.

To adjust the chain first loosen the M20 locknut (item C) on top of the chain guard and with a small tommy bar screw in the chain tensioner (item B) until all the free play is removed.

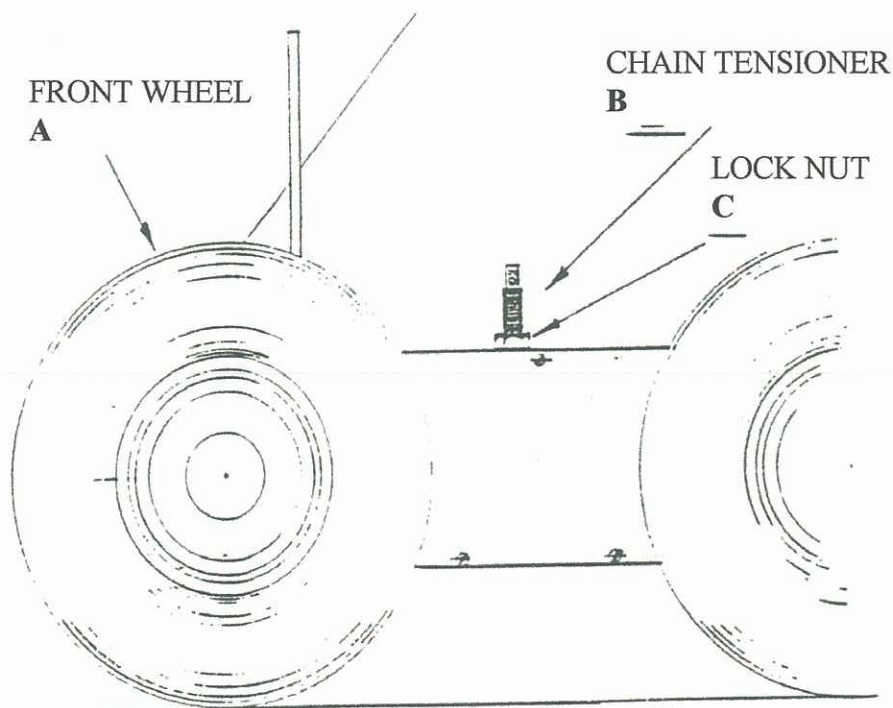
DO NOT OVERTIGHTEN THE CHAIN

Re-tighten the locknut (item C)

Repeat this operation for both sides of the **SKIDSTER**



MAINTENANCE



THREE MONTHLY OR EVERY 250 HOURS

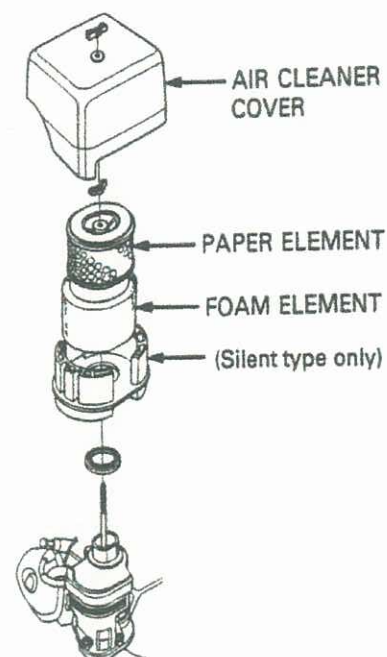
In addition to the weekly (40 hour) maintenance carry out the following:

Clean complete air filter. Wash the outer foam element in a solution of household detergent and warm water. Dry the foam element thoroughly and then soak in clean engine oil and squeeze out the excess oil. The engine will smoke during initial start up if excess oil is left in the foam.

Inner paper element must be cleaned by either tapping on a hard surface or by blowing compressed air through the filter from the inside out. Never brush the filter as this will force dirt into the fibres.

If the inner element is damaged in any way it should be replaced.

AIR CLEANER MAINTENANCE SHOULD BE CARRIED OUT MORE FREQUENTLY IF THE MACHINE IS USED IN DUSTY CONDITIONS.



MAINTENANCE

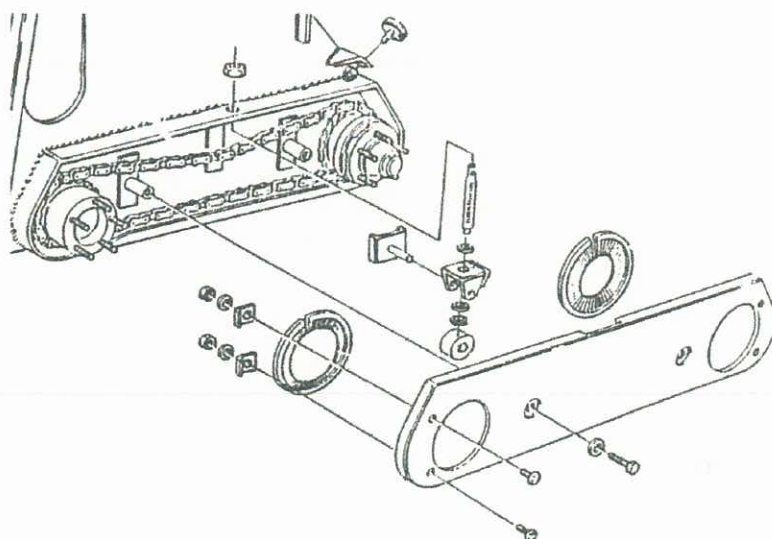
Remove chain guard cover plates and clean out accumulated dirt. Check all parts for wear and replace as required.

NOTE: It is normal for the nylon roller to have grooves where the chain side plates run.

Lubricate all parts with a good quality graphite based dry spray lubricant.

Clean and examine the brush seals in the guard cover and replace if badly worn or damaged.

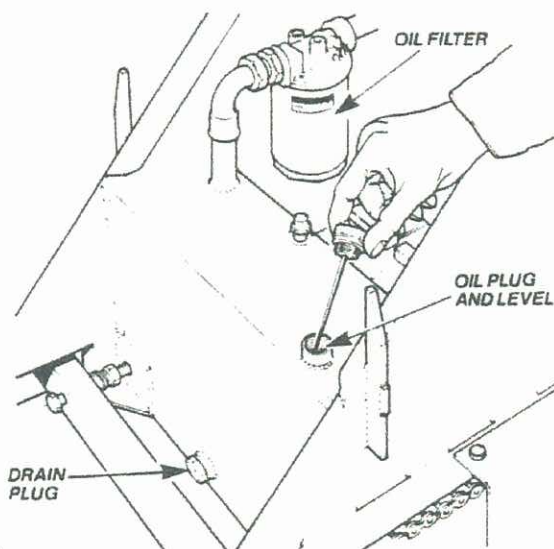
Re-tension the chain if required.



ANNUALLY

In addition to the three monthly maintenance carry out the following:

Change the hydraulic oil. Remove the filler and drain plugs and drain the oil. Flush the tank with a small quantity of clean oil. Clean the magnetic drain plug and check the condition of the sealing washer and replace if required. Refill the tank with **42 litres of BP HLP32** or equivalent oil.



Change the hydraulic pressure filter element.

Unscrew the bowl from the filter body and remove the element. The element is a push fit so a small amount of force may be needed to remove it. Check the condition of the sealing ring and fit a new one if required. Fit a new element and refit the filter bowl.

Before fitting the filter bowl lightly grease the sealing ring to aid future removal.

Tighten the filter bowl, start the engine and check for leaks.

MAINTENANCE

**THESE TASKS SHOULD ONLY BE CARRIED OUT BY A COMPETENT PERSON OR
AN AUTHORIZED HONDA SERVICE CENTRE**

Check and adjust the valve clearance on the engine.

Clean out the fuel tank and tank strainer.

Check fuel pipe for wear and damage and replace if required.

ON NEW MACHINES OR IF A NEW ENGINE IS FITTED

THE ENGINE OIL SHOULD BE CHANGED

AFTER THE FIRST 20 HOURS OR ONE MONTH

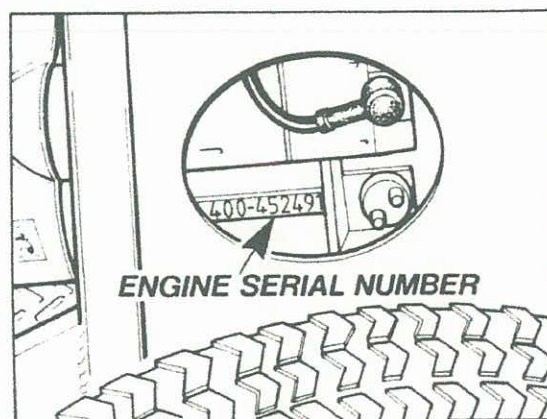
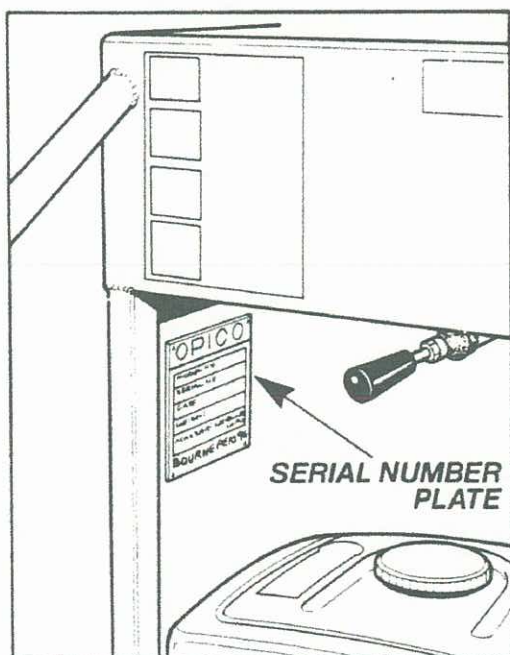
SPECIFICATIONS

M10X SKIDSTER SPECIFICATIONS

		METRIC	IMPERIAL
WEIGHT		570 KG	1257 LB
MAXIMUM LIFT HEIGHT		1915 MM	75.5 IN
TIPPING HEIGHT (STANDARD BUCKET)		1500 MM	59 IN
WHEELBASE		650 MM	25.50 IN
MAXIMUM LENGTH (STANDARD BUCKET)		1950 MM	76.75 IN
MINIMUM LENGTH (LESS BUCKET)		1500 MM	59 IN
HEIGHT (ARMS DOWN)		1200MM	47.25 IN
MINIMUM WIDTH WITH	5" WHEELS	960 MM	37.75 IN
	7" WHEELS	1010 MM	39.50 IN
	2.5" WHEELS	820 MM	32.25 IN
BUCKET WIDTH	36" GP	950 MM	37.50 IN
	42" GP	1100 MM	43.25 IN
	32" GP	820 MM	32.25 IN
BUCKET CAPACITY	36" GP	0.091 CU.M	3.21 CU.FT
	42" GP	0.106 CU.M	3.74 CU.FT
	32" GP	0.078 CU.M	2.75 CU.FT
HYDRAULIC OUTPUT		25 LITRES/MIN @ 180 BAR	5.50 GALS/MIN @ 2600 PSI
MAXIMUM LOAD CAPACITY (ALL MODELS)		225 KG	496 LB
HYDRAULIC OIL TANK CAPACITY		42 LITRES	9.25 GALLONS
FUEL TANK CAPACITY (PETROL)		6.5 LITRES	1.43 GALLONS
FUEL CONSUMPTION (HONDA)		230 G/P SH	
ENGINE OIL CAPACITY		1.1 LITRES	0.25 GALLONS

SPECIFICATIONS

SKIDSTER IDENTIFICATION



THE SKIDSTER SERIAL NUMBER IS LOCATED ON THE INNER FACE OF THE NEAR SIDE CHASSIS SIDE PLATE.

THERE IS ALSO A CHASSIS IDENTIFICATION CODE STAMPED IN THE REAR RIGHT HAND FOOT-PLATE SUPPORT.

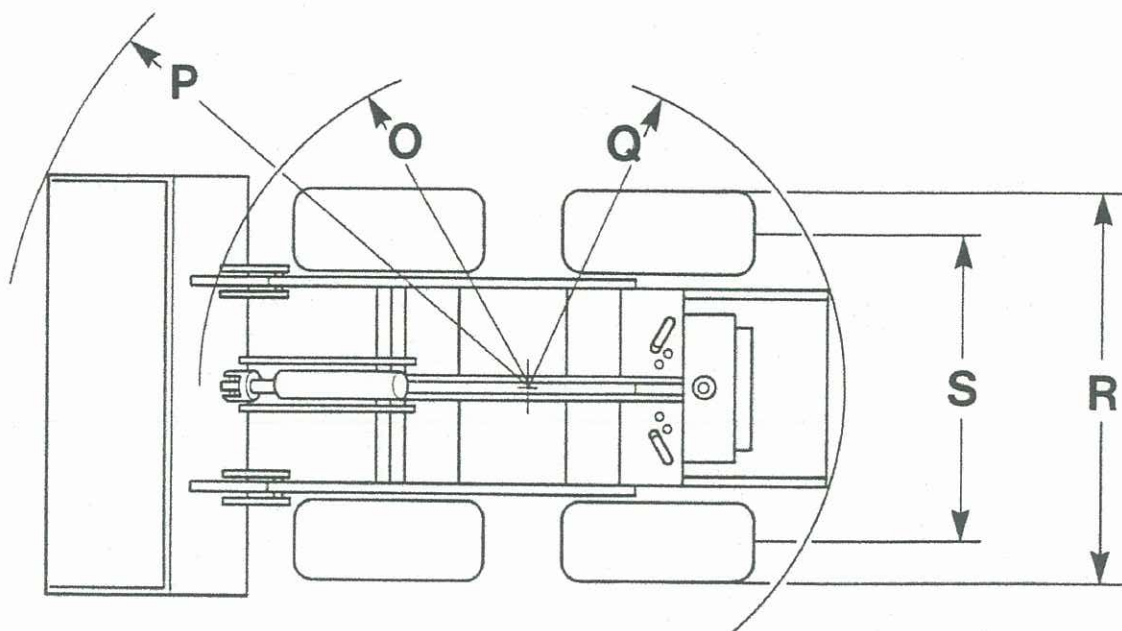
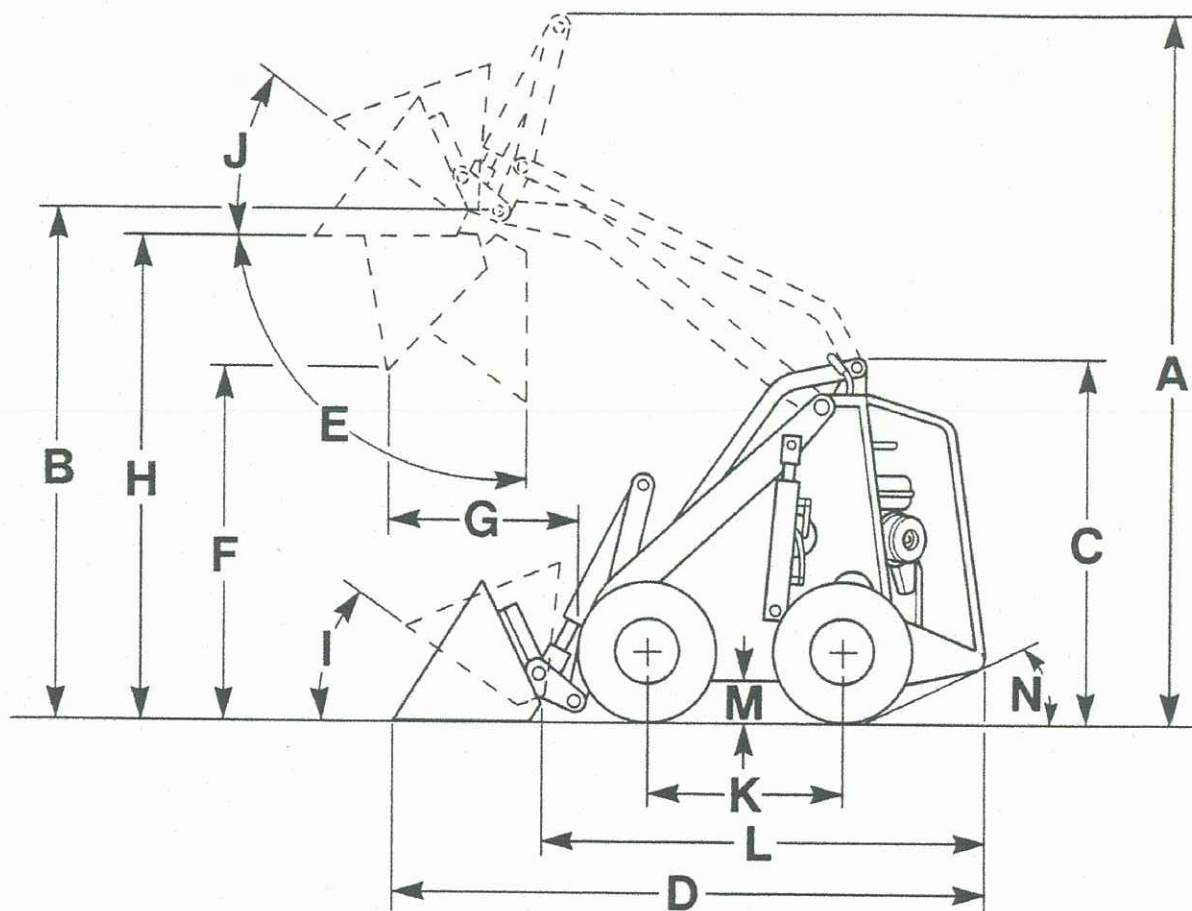
THE ENGINE SERIAL NUMBER IS LOCATED ON THE RIGHT HAND SIDE BY THE OIL FILLER CAP.

PLEASE QUOTE BOTH NUMBERS WHEN ORDERING PARTS

SPECIFICATIONS

DIMENSION A:	2550 MM
DIMENSION B:	2000 MM
DIMENSION C:	1205 MM
DIMENSION D:	1950 MM
ANGLE E:	90 DEGREES
DIMENSION F:	1500 MM
DIMENSION G:	120 MM
DIMENSION H:	1915 MM
ANGLE J:	30 DEGREES
DIMENSION K:	650 MM
DIMENSION L:	1500 MM
DIMENSION M:	130 MM
ANGLE N:	30 DEGREES
DIMENSION O:	650 MM
DIMENSION P:	1195 MM (STANDARD MACHINE)
DIMENSION P:	1225 MM (WIDE MACHINE)
DIMENSION P:	1165 MM (NARROW MACHINE)
DIMENSION Q:	940 MM
DIMENSION R:	960 MM (STANDARD MACHINE)
DIMENSION R:	1000 MM (WIDE MACHINE)
DIMENSION R:	820 MM (NARROW MACHINE)
ACROSS THE TYRE CENTRES:-	
DIMENSION S:	780 MM (STANDARD MACHINE)
DIMENSION S:	820 MM (WIDE MACHINE)
DIMENSION S:	700 MM (NARROW MACHINE)

SPECIFICATIONS

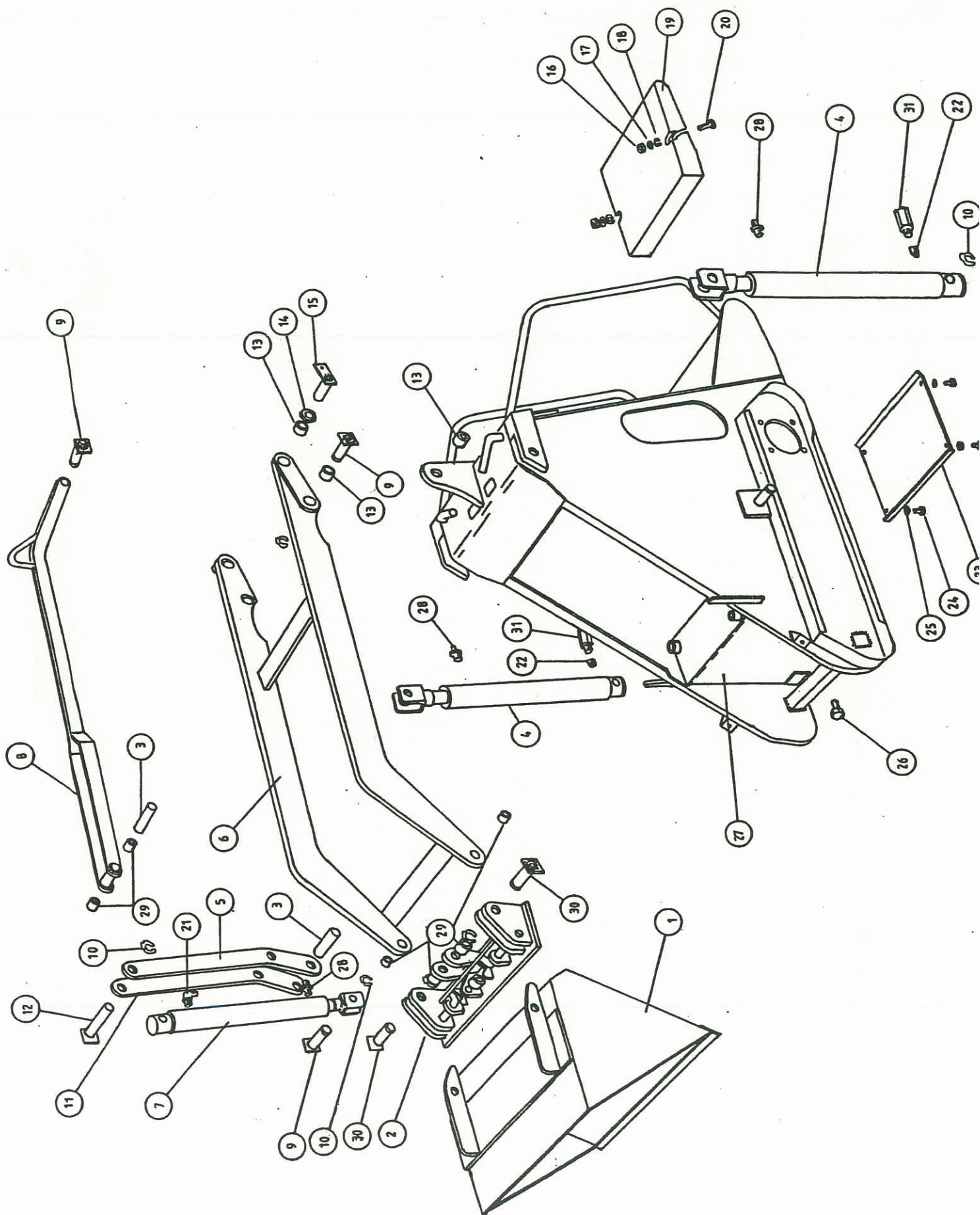


M10X

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PARTS LISTING
FROM SERIAL NUMBER
231369



SKIDSTER
CHASSIS ASSEMBLY

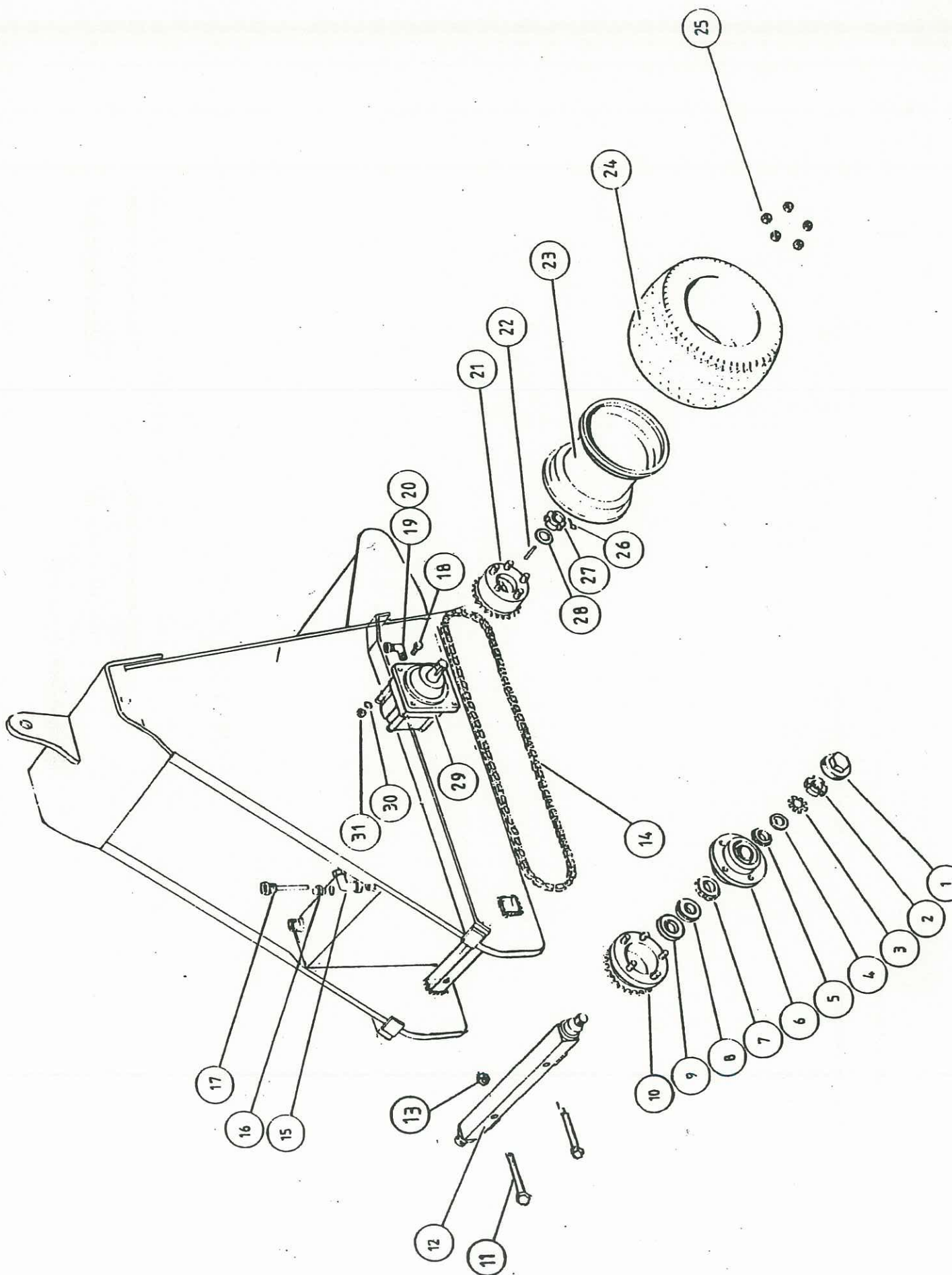
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	35ML0011		GENERAL PURPOSE BUCKET 36"
2	85FM0000	1	MOUNTING PLATE
	85FM0010	1	SPACER TUBE
	85FM0005	2	LATCHING BOLT
	85FM0009	2	ROLL PIN
3	85BR0033	2	PIN
	85BR0034	4	M6 BOLT
	85BP0035	4	M6 LOCK NUT
4	85P00403	2	LIFT RAM
	85P00036		LIFT RAM SEAL KIT
5	85P00405	1	LH TILT ARM
6	85FA0000	1	ARM ASSEMBLY
7	85P00402	1	CROWD RAM
8	85FB0000	1	BOOM ASSEMBLY
9	85PB0107	4	PIN GREASABLE
	85P00037		PIN NON-GREASABLE
10	85P00008	9	CIRCLIP
11	85P00406	1	RH TILT ARM
12	85P00013	1	PIN
13	85P00090	5	NYLON BUSH
14	85P00006	4	FLAT WASHER 1"
15	85FC0222	2	PIVOT PIN
	85PF0023	2	M16 BOLT
	85P00097	2	M16 FLAT WASHER
	85PE0502	2	M8 BOLT
	85P00063	2	M8 SPRING WASHER
	85P00165	2	M8 FLAT WASHER
16	85P00099	2	M16 NUT
17	85P00098	2	M16 SPRING WASHER
18	85P00097	2	M16 FLAT WASHER
19	85P00095	1	COUNTER WEIGHT
20	85P00096	2	M12 CUP HEAD BOLT



SKIDSTER
CHASSIS ASSEMBLY

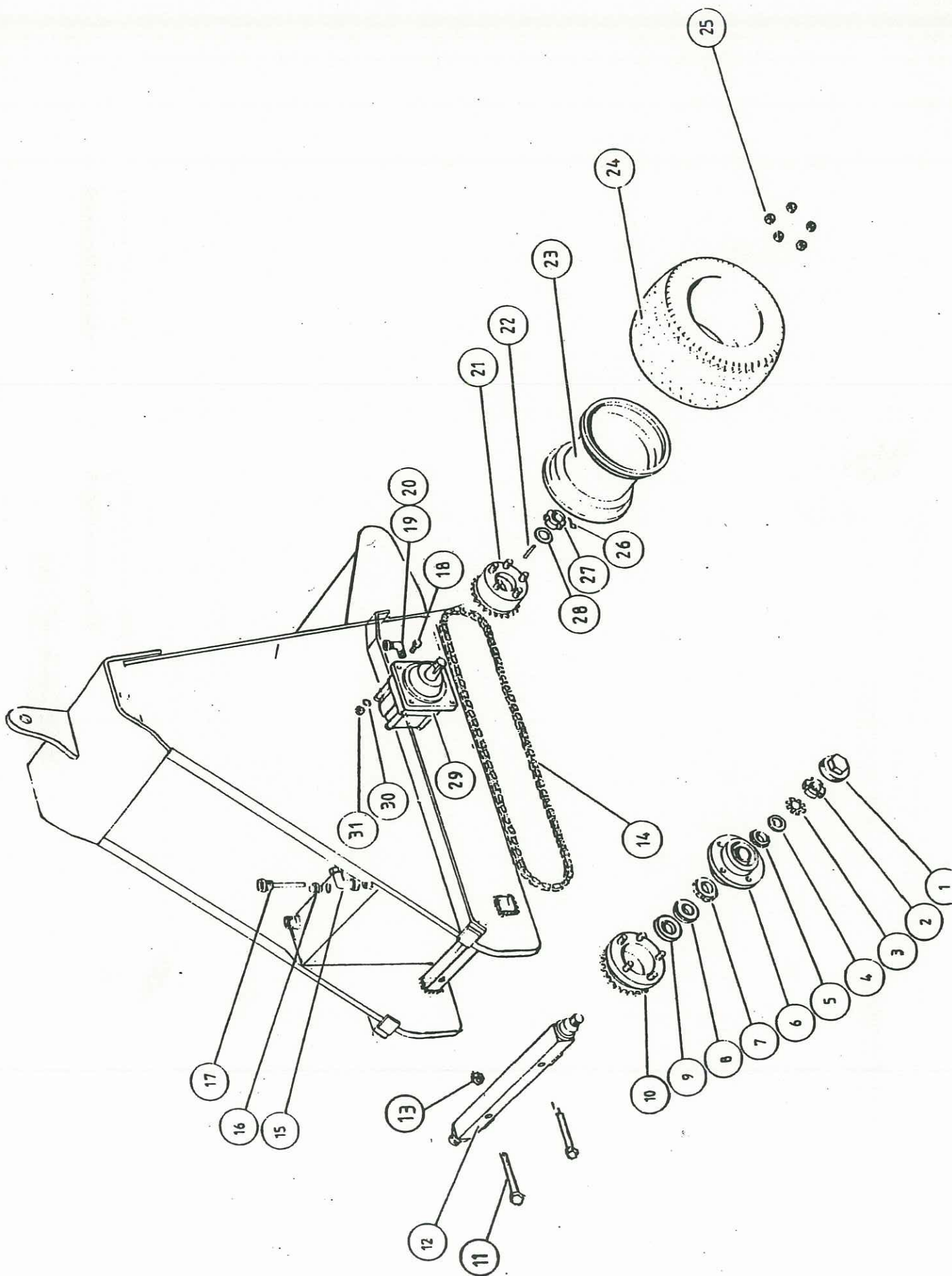
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
21	85P00140	1	ADAPTOR 90°
22	85P00073	2	HOSE FAILURE VALVE
23	85FC0023	1	BASE PLATE
24	85PV0007	4	M8 SET SCREW
25	85P00063	4	M8 SPRING WASHER
26	85P00074	1	MAGNETIC DRAIN PLUG c/w SEAL
27	85FC0201	1	CHASSIS WELDED ASSEMBLY
28	85P00030	4	ADAPTOR
29	85P00094		NYLON BUSH
30	85PB0108	2	PIN GREASABLE
	85P00011		PIN NON-GREASABLE
31	85P00124	1	ADAPTOR EXTENDED
*	85P00005	2	HANDLE GRIPS
*	85P00012		EDGE STRIP
*	85FC0065	1	FRONT COVER
*	85FL0070	8	M6 SELF TAP SCREW
*	85PB0109	6	GREASE NIPPLE
*	85P00500	2	PIPE CLAMP
*	85P00161	1	M6 BOLT
*	85BR0035	1	M6 LOCK NUT
*	85P00270	2	M6 FLAT WASHER
*	85P00003	7	CABLE TIES

* NOT ILLUSTRATED



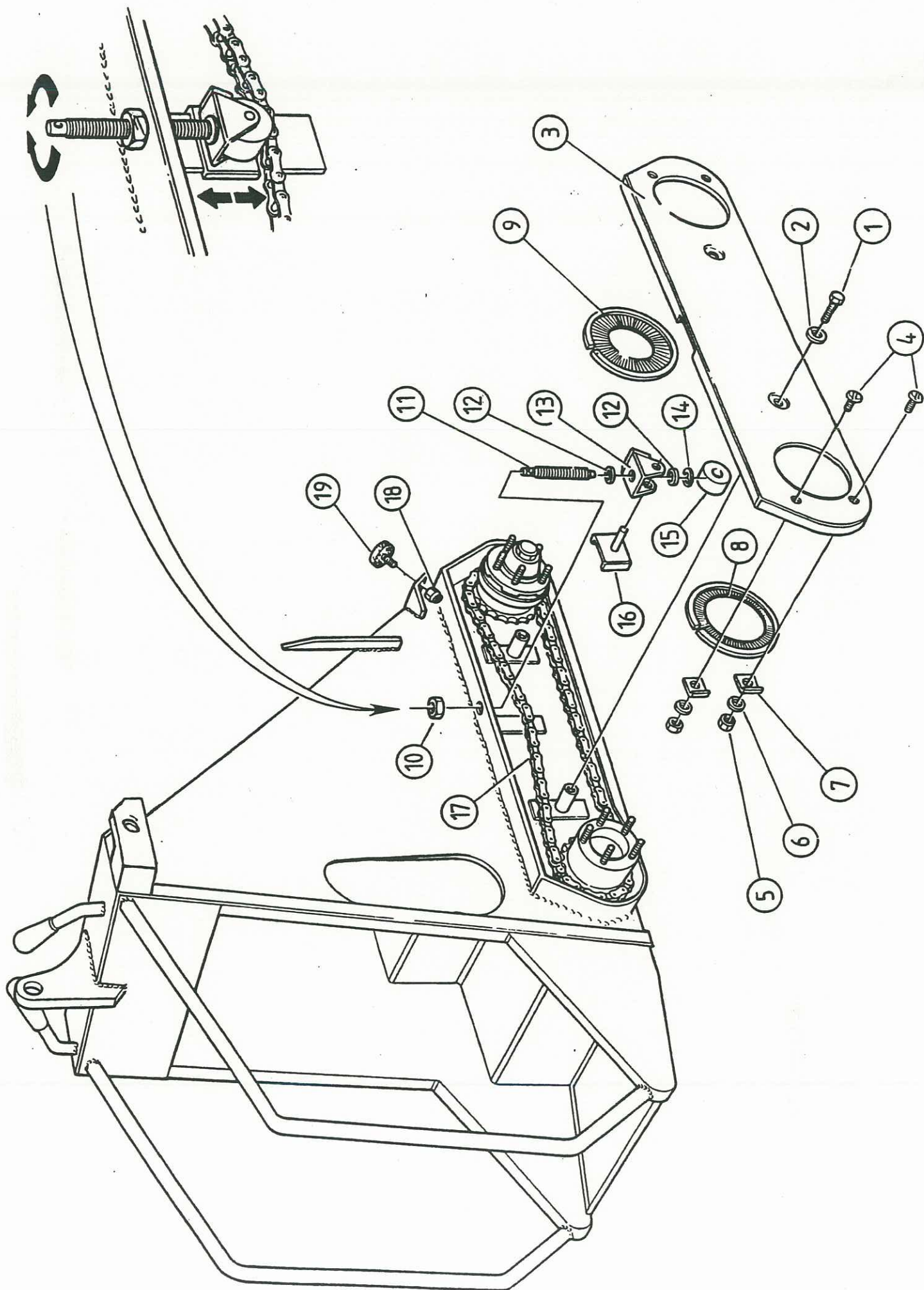
SKIDSTER
DRIVE COMPONENTS

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	85PA0006	2	HUB CAP
2	85PA0005	2	HUB RETAINING NUT
3	85PA0013	2	LOCK WASHER
4	85PA0010	2	THRUST WASHER
5	85PA0001	2	OUTER BEARING
6	85PA0101	2	FRONT HUB
7	85PA0002	2	INNER BEARING
8	85PA0102	2	SEAL
9	85PA0105	2	AXLE WASHER
10	85PA0017	2	SPROCKET CARRIER ASSEMBLY
	85PA0003	1	SPROCKET WELD ON
	85PA0018	1	HUB
	85PA0016	5	STUD
	85PA0016/1	5	STUD WITH COLLAR
11	85FC0161	2	M16 AXLE BOLT
12	85PA0023	1	AXLE
13	85PA0008	2	M16 LOCK NUT
	85P00097	2	M16 FLAT WASHER
14	85PD0004	2	CHAIN
15	85P00110	1	ADAPTOR 90°
16	85P00079	1	BREATHER PLUG
17	85FC0016	1	FILLER DIP STICK
18	85PHD015	8	M12 WHEEL MOTOR NUT
19	85P00142	2	WHEEL MOTOR ADAPTOR
20	85P00145	2	EXTENDED ADAPTOR
21	85FRH000	2	REAR HUB ASSEMBLY
	85FRH002		SPROCKET
	85FRH004		M10 WHEEL STUDS
	85FRH001		HUB
22	85682L8021	2	KEY
23	85PW0037	4	WHEEL RIM 5.3/8" x 8"



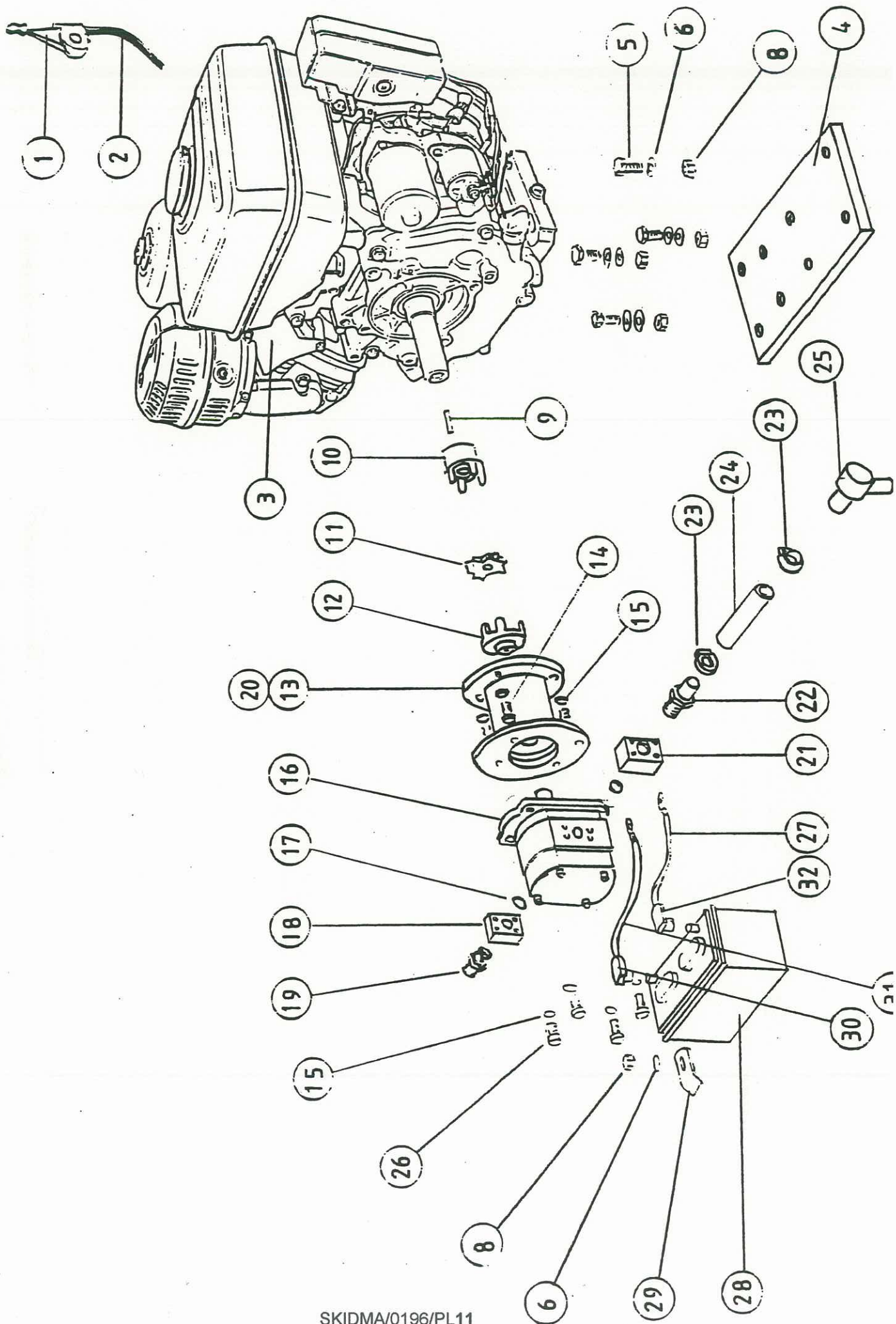
SKIDSTER
DRIVE COMPONENTS

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
24	85PW0043	4	GENERAL PURPOSE TYRE 18 x 7.00-8
	85PW0047	4	TRACTION TYRE 18 x 7.00-8
23	85PW0040	4	WHEEL RIM 7" x 8"
24	85PW0042	4	GENERAL PURPOSE TYRE 18 x 8.50-8
	85PW0045	4	TRACTION TYRE 17 x 8.50-8
23	85PW0034	4	WHEEL RIM 3" x 8"
24	85PW0036	4	GENERAL PURPOSE TYRE 4.00-8
25	85FRH005	20	M10 WHEEL NUT
26	85P00014	2	SPLIT PIN
27	85681X8235	2	MOTOR SHAFT NUT
28	85684X2530	2	WASHER
29	85P00026	2	WHEEL MOTOR
30	85P00250	8	M12 FLAT WASHER
31	85P00232	8	M12 LOCK NUT



SKIDSTER
CHAIN GUARD ASSEMBLY

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	85PV0007	4	M8 SET SCREW
2	85P00063	4	M8 SPRING WASHER
	85P00165	4	M8 FLAT WASHER
3	85FC0175	2	CHAIN GUARD
4	85FC0158	8	M6 PAN HEAD SCREW
5	85P00056	8	M6 NUT
6	85P00055	8	M6 SPRING WASHER
7	85FC0126	8	BRUSH SEAL RETAINER
8	85FC0157	2	REAR BRUSH SEAL
9	85FC0162	2	FRONT BRUSH SEAL
10	85BR0012	2	M20 NUT
11	85FC0150	2	ADJUSTER BOLT
12	85P00097	4	M16 FLAT WASHER
13	85FC0152	2	ROLLER HOLDER
14	85FC0156	2	E WASHER
15	85FC0153	2	ROLLER
16	85FC0151	2	SPINDLE
17	85PD0004	2	CHAIN 92 PITCH
18	85P00231	2	M10 LOCK NUT
19	85FC0075	2	BUMP STOP

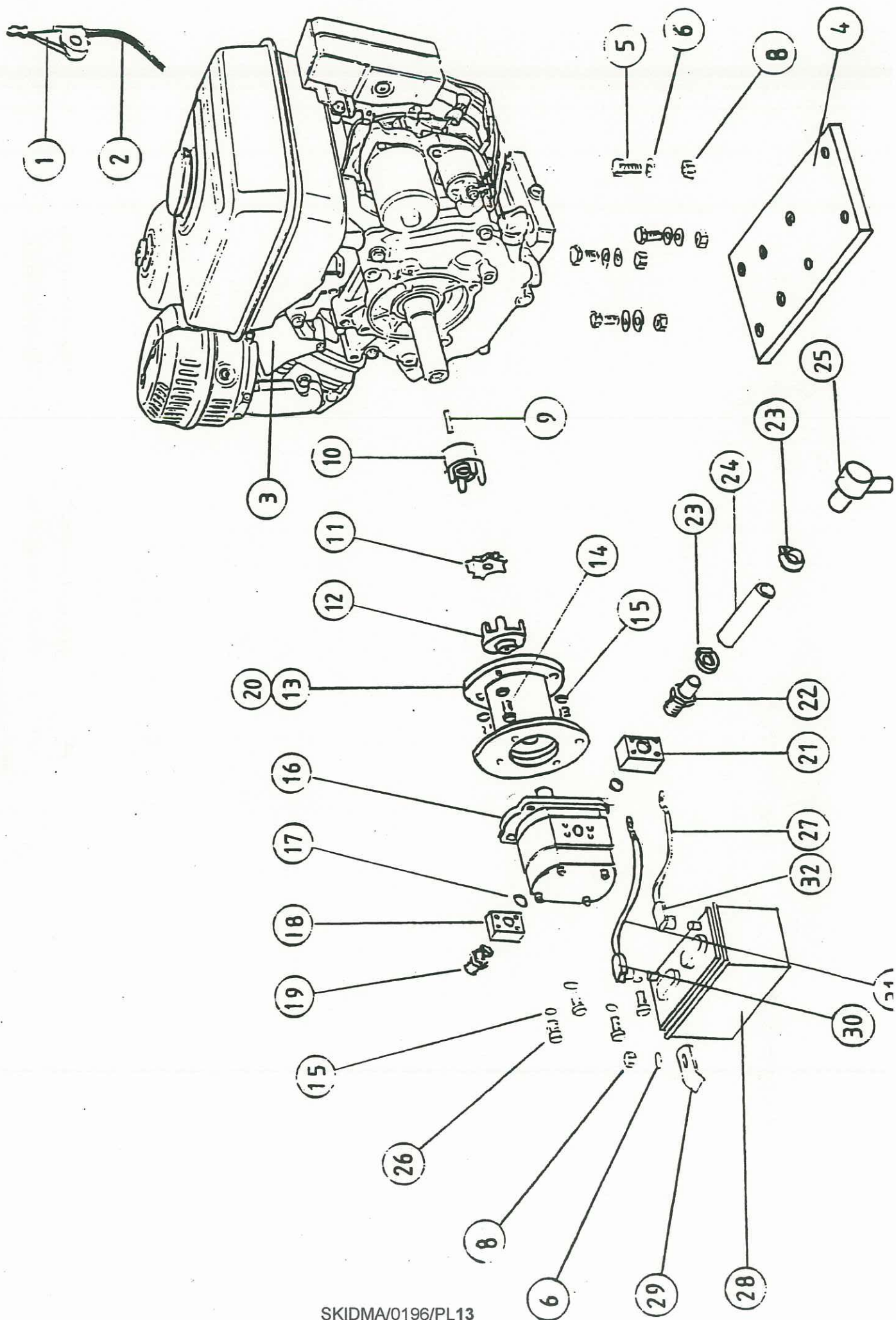


SKIDSTER

POWER UNIT ASSEMBLY

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	85PE0015	1	THROTTLE CONTROL
2	85PE0012	1	THROTTLE CABLE
*	85PE0605	1	PAN HEAD SCREW)
*	85PE0606	1	E RING) ENGINE ATTACHMENT
*	85PE0607	1	WIRE HOLDER)
*	85FC0158	1	M6 SLOT HEAD BOLT)
*	85P00055	1	M6 SPRING WASHER) CABLE HOLDER
*	85P00056	1	M6 NUT)
*	85P00270	1	M6 FLAT WASHER)
3	85PE0601	1	ENGINE HONDA GX390
	85BR0037	2	M10 ENGINE MOUNTING BOLT
	85PE0007	4	M10 FLAT WASHER
	85P00231	2	M10 LOCK NUT
4	85P00652	1	ENGINE MOUNTING PLATE
5	85BR0037	4	M10 MOUNTING PLATE BOLT
6	85PE0005	4	M10 SPRING WASHER
7	85PE0007	4	M10 FLAT WASHER
8	85PE0006	2	M10 NUT
9	85PE0011	1	STRAIGHT KEY
10	85PC0088	1	COUPLING ENGINE HALF
11	85PC0089	1	SPIDER
12	85PC0092	1	COUPLING PUMP HALF
13	85P00601	1	TUBE
14	85PB0200	4	1 1/4" BOLT
15	85TD0052	4	3/8" SPRING WASHER
16	85P00260	1	PUMP 8CC
17	85P00065	2	O RING
18	85P00047	1	PUMP OUTLET ADAPTOR
19	85P00025	1	HOSE INSERT
20	85PC0093	1	PUMP ADAPTOR
21	85P00046	1	PUMP INLET ADAPTOR

* NOT ILLUSTRATED



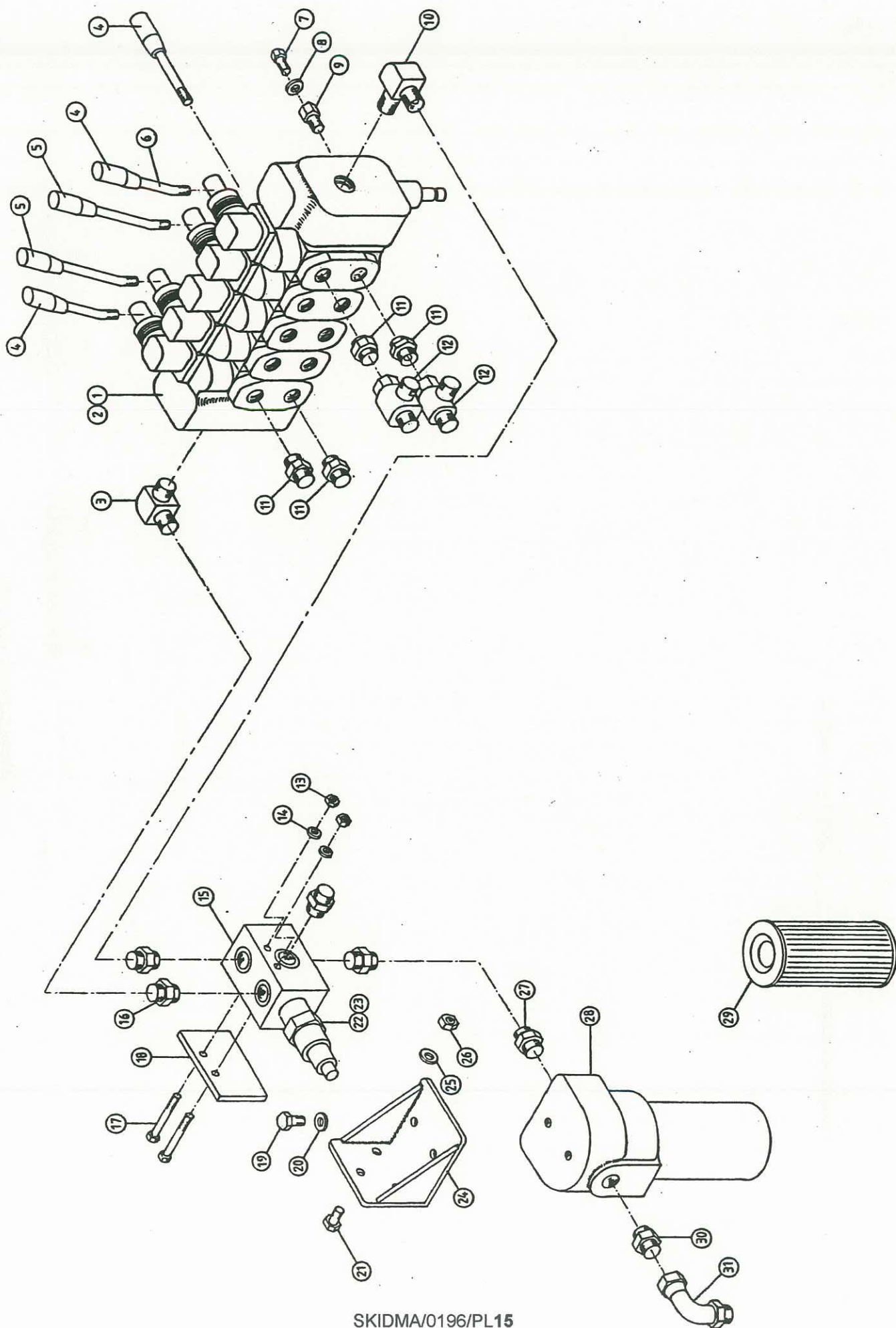
SKIDSTER

POWER UNIT ASSEMBLY

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
22	85P00129	1	HOSE INSERT
23	85P00130	2	HOSE CLIPS
24	85P00127	1	SUCTION HOSE
25	85P00042	1	HOSE INSERT 90°
26	85P00162	4	M8 SOCKET HEAD SCREW
	85P00063	4	M8 SPRING WASHER
27	85P00053	1	BATTERY CABLE BLACK
28	85P00052	1	BATTERY
29	85FC0028	1	BATTERY RETAINING CLIP
	85P00231	1	M10 LOCK NUT
	85PE0007	1	M10 FLAT WASHER
30	85P00054	1	M6 SCREW SET
	85P00056	1	M6 NUT
	85P00055	1	M6 SPRING WASHER
31	85P00173	1	BATTERY CABLE RED
32	85P00054	1	M6 SET SCREW
	85P00056	1	M6 NUT
	85P00055	1	M6 SPRING WASHER
*	85PE0090	1	HOUR CLOCK
*	85PE0091	1	MOUNTING PLATE
*	85PV0007	1	M8 BOLT
*	85P00165	1	M8 FLAT WASHER
*	85P00063	1	M8 SPRING WASHER
*	85P00040	1	M8 NUT
*	85FC0230	1	STARTER SWITCH UPPER SPACER
*	85FC0231	1	STARTER SWITCH LOWER SPACER
*	85PC0160	4	M6 BOLT STARTER SWITCH
*	85P00055	4	M6 SPRING WASHER
*	85P00270	2	M6 FLAT WASHER
*	85P00056	2	M6 NUT

* NOT ILLUSTRATED

NOTE: FOR ENGINE PARTS REFER TO HONDA OWNERS MANUAL OR CONSULT A HONDA ENGINE DEALER



SKIDMA/0196/PL15

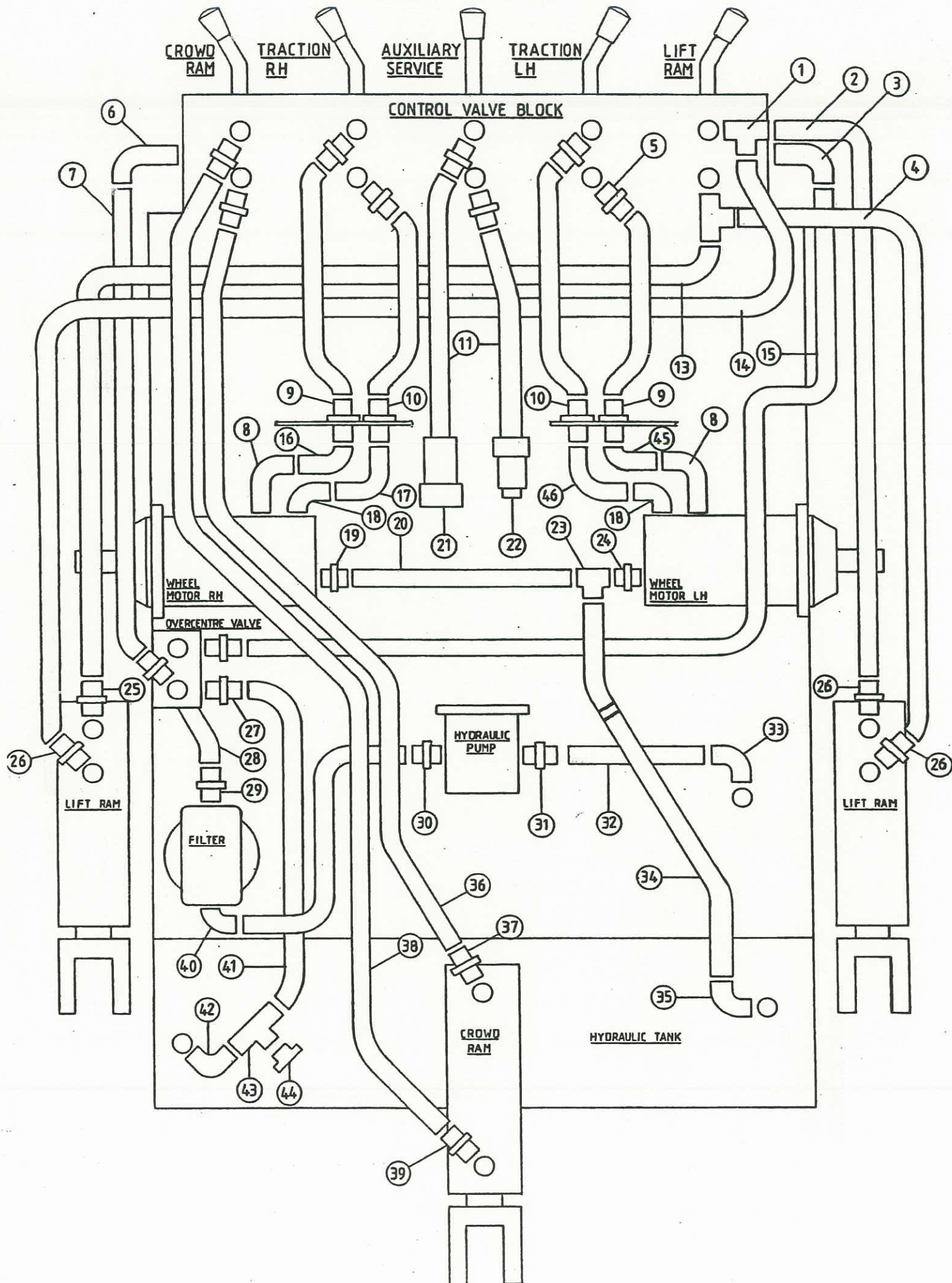
SKIDSTER
HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	85PV0001	1	CONTROL VALVE ASSEMBLY SPOOL SLICE
2	85PV0032	-	SEAL KIT PER SPOOL
3	85P00142	1	ADAPTOR 90°
4	85PV0021	3	CONTROL KNOB BLACK
5	85PV0020	2	CONTROL KNOB RED
6	85PV0003		OUTER CONTROL LEVER
	85PV0004		INNER CONTROL LEVER
	85PV0002		AUXILIARY CONTROL LEVER
7	85PV0007	3	M8 SET SCREW
	85PE0524	1	M8 SET SCREW
8	85P00063	4	M8 SPRING WASHER
	85P00165	4	M8 FLAT WASHER
9	85PV0006	4	M8 ADAPTOR
10	85P00156	1	ADAPTOR 90°
11	85P00030	10	ADAPTOR BSP/JIC
12	85P00146	2	ADAPTOR TEE
13	85P00056	2	M10 NUT
14	85P00055	2	M10 SPRING WASHER
	85PE0007	4	M10 FLAT WASHER
15	85P00066	1	OVER CENTRE VALVE
16	85P00155	4	ADAPTOR
17	85P00161	2	M6 BOLT
18	85P00139	1	OVER CENTRE VALVE SPACER
19	85PE0070	3	M10 SET SCREW
20	85PE0005	3	M10 SPRING WASHER
21	85PE0524	3	M8 BOLT
22	85P00261	-	OVER CENTRE VALVE CARTRIDGE ONLY
23	85P00420	-	SEAL KIT OVER CENTRE VALVE
24	85P00210	1	FILTER MOUNTING BRACKET



SKIDSTER
HYDRAULIC COMPONENTS

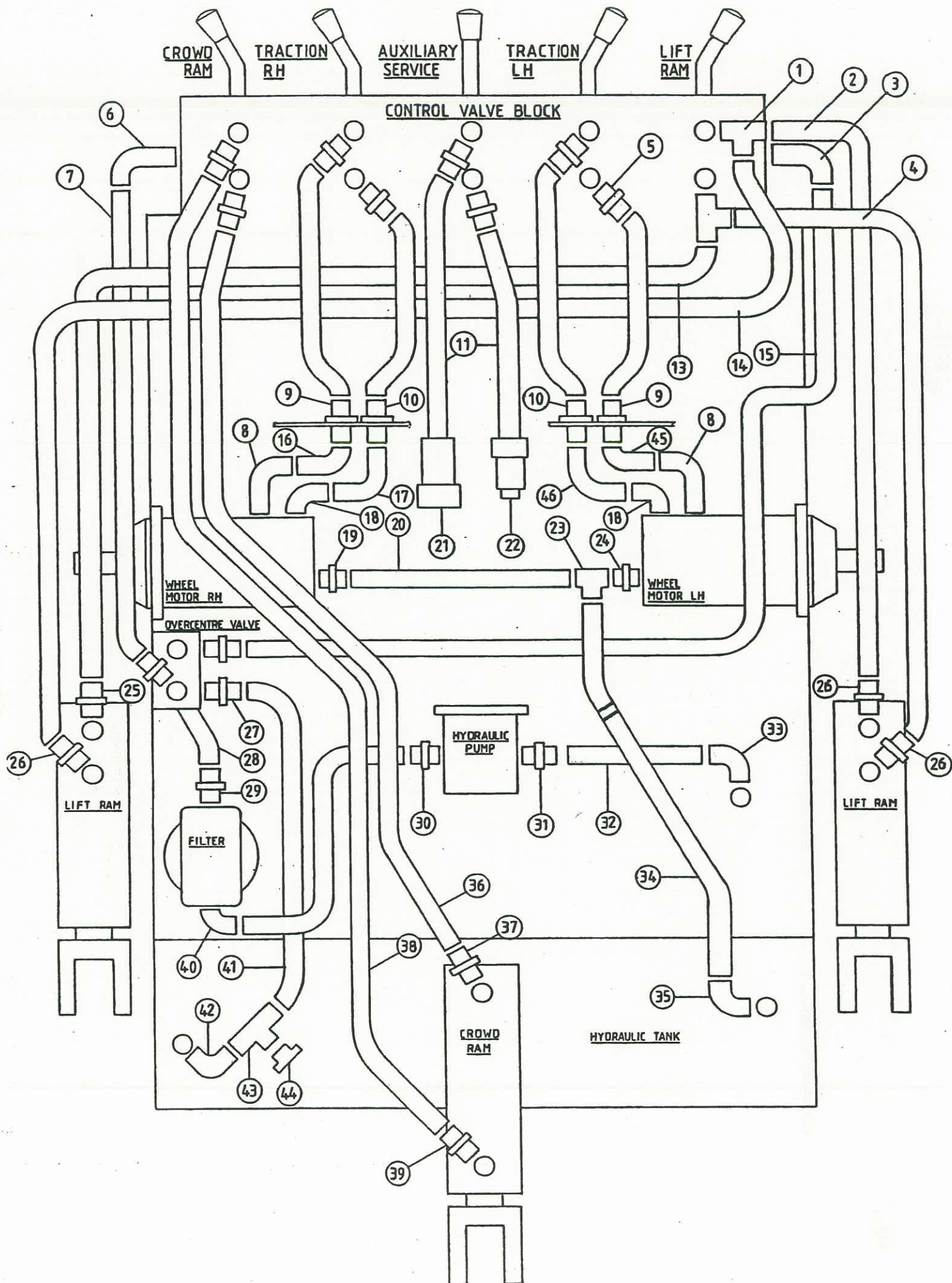
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
25	85P00063	3	M8 SPRING WASHER
	85PE0165	3	M8 FLAT WASHER
26	85P00040	3	M8 NUT
27	85P00132	1	ADAPTOR
28	85P00135	1	PRESSURE FILTER ASSEMBLY
29	85P00137	1	FILTER ELEMENT ONLY
30	85P00025	1	ADAPTOR
31	85P00115	1	ADAPTOR 90° SWEPT



SKIDSTER

HYDRAULIC PIPES AND FITTINGS

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	85P00146	2	TEE 9/16" JIC
2	85P00461	1	HOSE VALVE TO LH RAM BASE PORT (952MM)
3	85P00156	1	ADAPTOR 3/8" BSP 3/4" JIC 90°
4	85P00460	1	HOSE VALVE TO LH RAM TOP PORT (914MM)
5	85P00030	10	ADAPTOR 3/8" BSP 9/16" JIC
6	85P00142	1	ADAPTOR 1/2" BSP 3/4" JIC 90°
7	85P00432	1	HOSE VALVE RETURN TO OVER CENTRE VALVE (254MM)
8	85P00145	2	ADAPTOR 1/2" BSP 3/4" JIC 90° EXTENDED
9	85P00131	2	ADAPTOR BULKHEAD 3/4" JIC
10	85P00154	2	ADAPTOR BULKHEAD 3/4" JIC
11	85P00100	2	HOSE AUXILIARY (406MM)
12	NOT USED		
13	85P00463	1	HOSE VALVE TO RH RAM BASE PORT (825MM)
14	85P00462	1	HOSE VALVE TO RH RAM TOP PORT (635MM)
15	85P00431	1	STEEL PIPE OVER CENTRE VALVE TO VALVE
16	85P00446	1	HOSE RH MOTOR OUTER (279MM)
17	85P00447	1	HOSE RH MOTOR INNER (241MM)
18	85P00142	2	ADAPTOR 1/2" BSP 3/4" JIC 90°
19	85P00109	1	ADAPTOR 1/2" BSP SWIVEL
20	85P00077	1	HOSE MOTOR RETURN (400MM)
21	85P00101	1	QUICK RELEASE COUPLING 3/8" BSP FEMALE
22	85P00102	1	QUICK RELEASE COUPLING 3/8" BSP MALE
23	85P00076	1	TEE 1/4" MALE
24	85P00075	1	ADAPTOR 1/4" MALE
25	85P00124	1	ADAPTOR EXTENDED 3/8" x 9/16"
26	85P00030	3	ADAPTOR 3/8" BSP 9/16" JIC
27	85P00155	4	ADAPTOR 3/8" BSP 3/4" JIC
28	85P00443	1	HOSE FILTER TO OVER CENTRE VALVE (520MM)
29	85P00132	1	ADAPTOR 1/2" BSP 3/4" JIC
30	85P00025	1	HYDRAULIC PUMP ADAPTOR PRESSURE 1/2" MALE
31	85P00129	1	HYDRAULIC PUMP ADAPTOR SUCTION 3/4" MALE
32	85P00127	1	HOSE SUCTION (108MM)

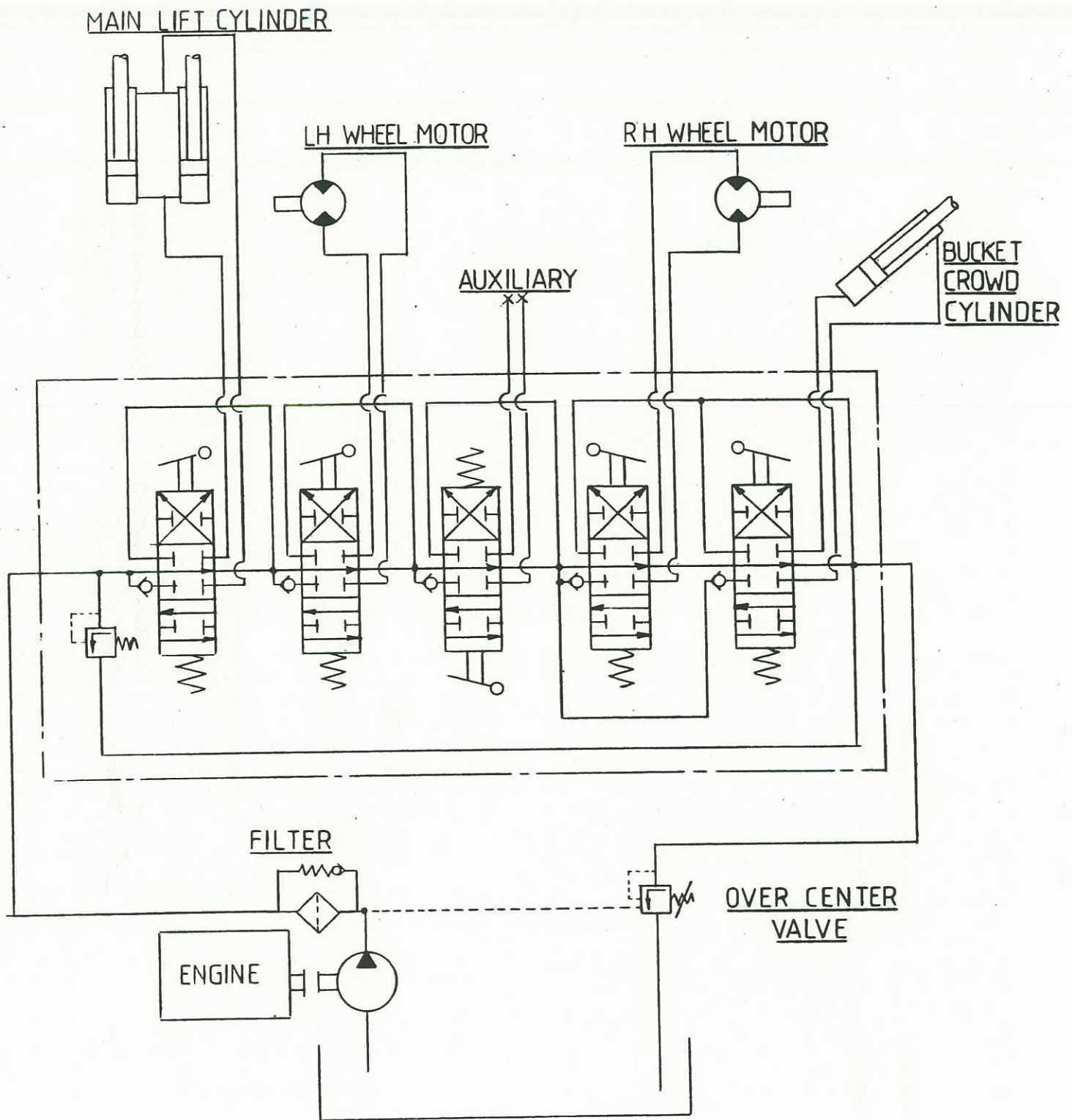


SKIDSTER

HYDRAULIC PIPES AND FITTINGS

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
33	85P00042	1	HOSE INSERT 3/4" x 90° SWEPT
	85P00151	1	SCREW ON ADAPTOR 3/4"
34	85P00550	1	HOSE MOTOR RETURN TO BULKHEAD (343MM)
	85P00444	1	HOSE BULKHEAD TO HYDRAULIC TANK (457MM)
	85P00119	1	ADAPTOR BULK HEAD 1/4"
35	85P00110	1	ADAPTOR 1/4" 90°
36	85P00407	1	HOSE VALVE TO CROWD RAM TOP (1759MM)
37	85P00030	1	ADAPTOR 3/8" BSP 9/16" JIC
38	85P00408	1	HOSE VALVE TO CROWD RAM BASE (2000MM)
39	85P00140	1	ADAPTOR 3/8" BSP 9/16" JIC 90°
40	85P00115	1	ADAPTOR 1/2" 90° SWEPT
	85P00025	1	ADAPTOR 1/2"
41	85P00433	1	STEEL PIPE OVER CENTRE VALVE RETURN TO TANK
42	85P00153	1	ADAPTOR 3/4" BSP 90°
	85P00151	1	SCREW ON ADAPTOR 3/4" BSP
43	85P00121	1	TEE FEMALE SWIVEL 3/4" BSP
	85P00125	1	ADAPTOR 3/4" SWIVEL
	85BR0031	1	ADAPTOR 3/4" BSP 3/4" JIC
44	85P00122	1	PLUG 3/4" BSP
45	85P00449	1	HOSE LH MOTOR OUTER (267MM)
46	85P00448	1	HOSE LH MOTOR INNER (228MM)
*	85P00445	1	HOSE HYDRAULIC PUMP TO FILTER (394MM)
*	85P00441	2	HOSE VALVE TO WHEEL MOTOR (610MM)
*	85P00442	2	HOSE VALVE TO WHEEL MOTOR (572MM)
*	85P00104	2	BONDED SEAL 1/4" BSP
*	85P00105	3	BONDED SEAL 3/8" BSP
*	85P00106	3	BONDED SEAL 1/2" BSP
*	85P00107	1	BONDED SEAL 3/4" BSP
*	85P00420	-	SEAL KIT OVER CENTRE VALVE
*	85PV0032	-	SEAL KIT CONTROL VALVE PER SLICE
*	85P00036	-	SEAL KIT HYDRAULIC RAMS
*	85PV0033	-	O RINGS FOR VALVE SLICE (PACK OF 10)

* NOT ILLUSTRATED



HYD CIRCUIT DIAGRAM M12

