



6308ANH, 8308ANH, & 9308ANH SUPPLEMENTARY MANUAL

1730448

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INTRODUCTION

This manual contains supplementary information, including illustrated parts, for the service and repair of JLG Model 6308ANH, 8308ANH, AND 9308ANH lighting towers. The 6308AN, 6308ANH, 8308ANH, and 9308ANH share most components in common. Information has only been supplied in this supplementary manual where 6308ANH, 8308ANH, 9308ANH components differ from the standard 6308AN components. For further information on service, maintenance and parts, consult sections 2 to 4 of the 6308AN Manual.

SPECIFICATIONS

1.1 CAPACITIES

Hydraulic Oil Tank	6.6L
Fuel Tank	167L
Engine Crank Case	5.6L
Radiator (6308ANH)	4.2L
Radiator (8308ANH)	5.5L
Radiator (9308ANH)	8.1L

1.2 COMPONENT DATA

Engine

6308ANH – Kubota D1403BG

3 Cylinder, water-cooled
Rated Power 14.3HP SAE Net @
R.P.M. 1500

8308ANH – Kubota D1703BG

3 Cylinder, water-cooled
Rated Power 17.2HP SAE Net @
R.P.M. 1500

9308ANH – Kubota V2203BG

4 Cylinder, 2.2 litre, water-cooled
Rated Power 17.1 kW @ 1500 rpm
[23 hp]
SAE Nett Continuous

Alternator – SINCRO

6308ANH & 8308ANH – Model HB4

Rated Power. 16.5k VA
Phase Three. Config. Star
Self Excited
Volts 415V A.A., 240V A.N.
Amperage 31.5 total

9308ANH – Model SK160MB

Rated Power. 20 kVA
Phase: Three. Configuration: Star
Self Excited
Volts 415 V A.A., 240 V A.N.
Amperage. 31.5 total

Hydraulics – Fenner Fluid Power

Motor 12 Volt D.C.
Operating Pressure 2500PSI
17.23MPa
Pump Volume 0.8 cm³/rev

Lights – Sylvania Briteline 2000

Type Metal Halide
6308ANH: 4 x 1500W
8308ANH: 4 x 2000W
9308ANH: 6 x 1500W

Electrical Controls

Main Circuit Breaker 40 A
RCD Trip Rating 30 mA
Lamp Switches/
Circuit Breakers 10 A

Sound Pressure Levels

Max 72dBA at 7m radius.
Reference AS2790 Appendix E.

Axle and Brakes

Single Axle (IRS) Independent Rubber
Suspension.
Hydraulic overriding drum brakes.

Tyres and Wheels

Tyre Dimensions: 205/80 x 16"
Wheel Dimensions: 16" x 6J

Battery

Model N70ZZ Marine
Voltage 12 V DC
C.C.A. 600 A
Reserve Current 130 A

1.3 DIMENSIONS

Length (Drawbar Stowed) 2.5 m
Width 1.74m
Height Stowed 2.4m
Height Erected 8m

1.4 WEIGHT

6308ANH & 8308ANH

Aggregate weight 1700kg
Towbar weight 80kg

SPECIFICATIONS

9308ANH

Aggregate weight	1900kg
Towbar weight	80kg

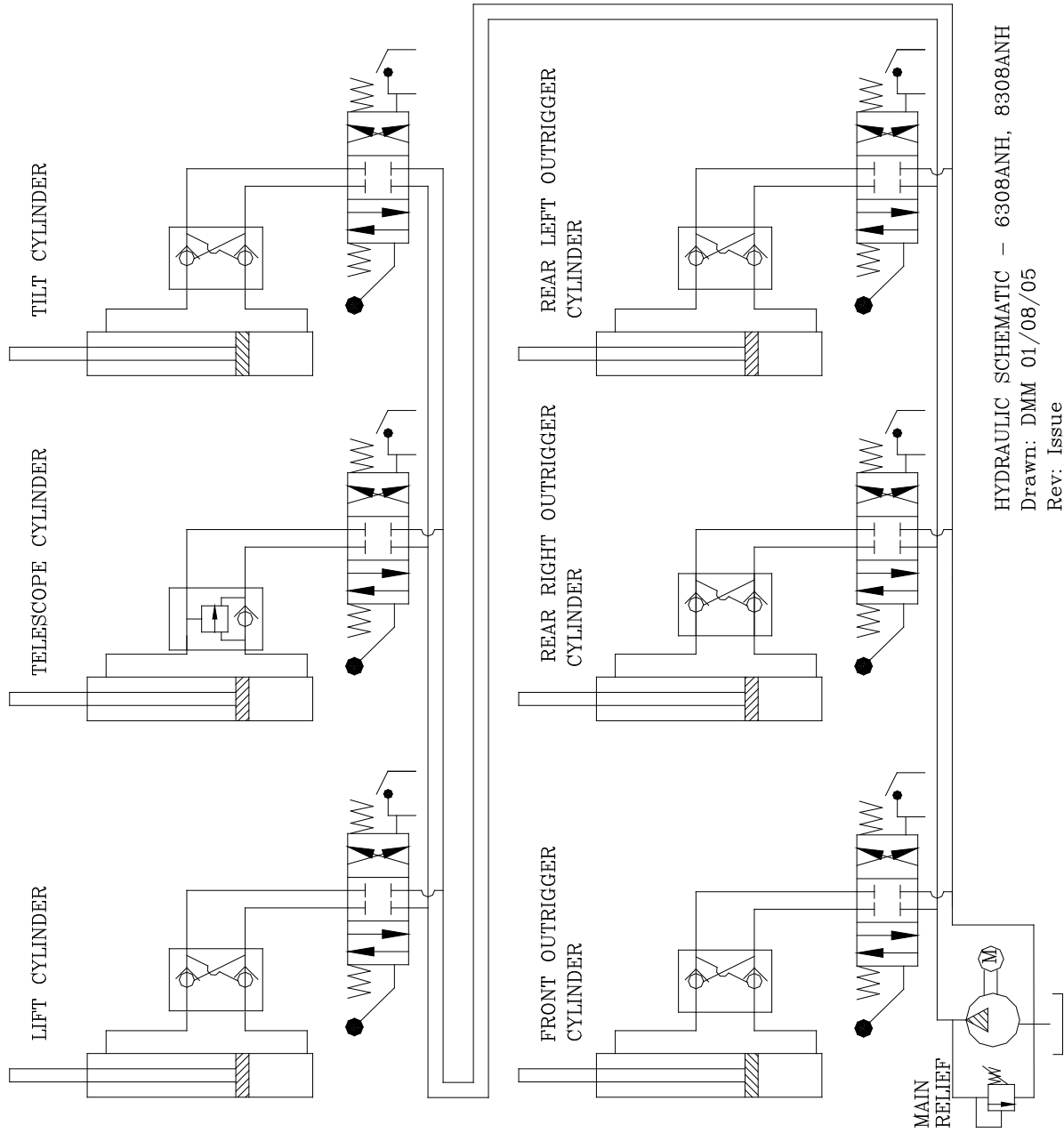
1.5 PERFORMANCE

Mast lift time	110 Seconds
Mast Lower time	90 Seconds
Rated Towing Speed	80km/h
Fuel Consumption (6308ANH)	2.5 l/h
Fuel Consumption (8308ANH & 9308ANH)	2.9 l/h

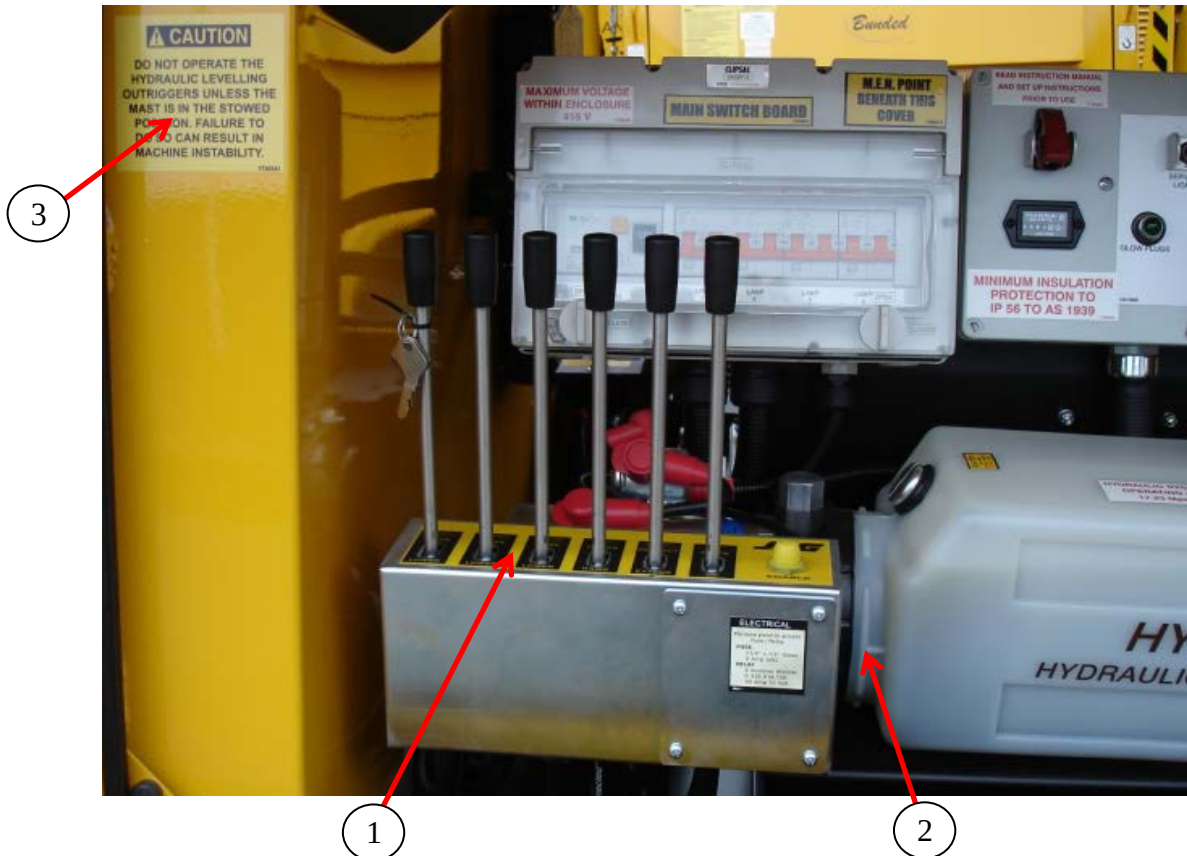
**1.6 HYDRAULIC SYSTEM
PRESSURE SETTINGS**

System Pressure 2500PSI (172.3 bar)

HYDRAULIC SCHEMATIC

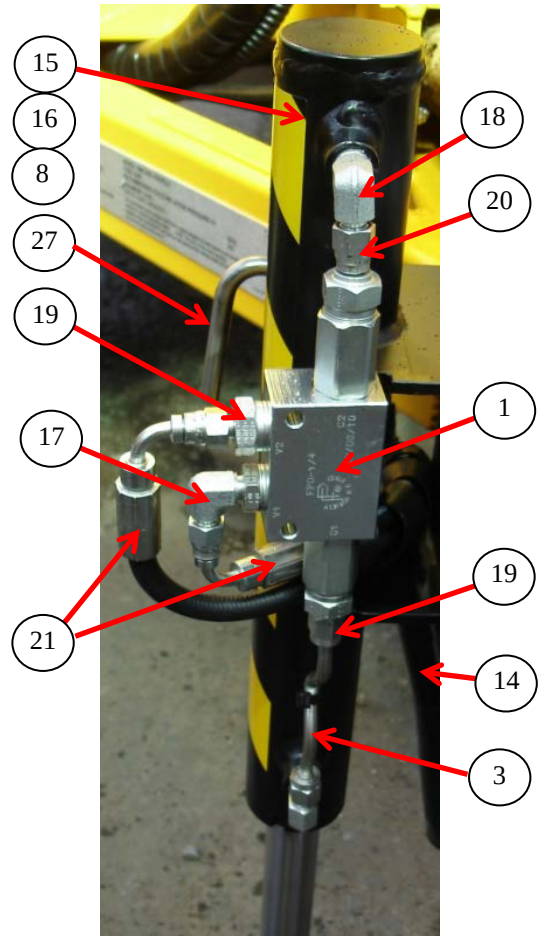
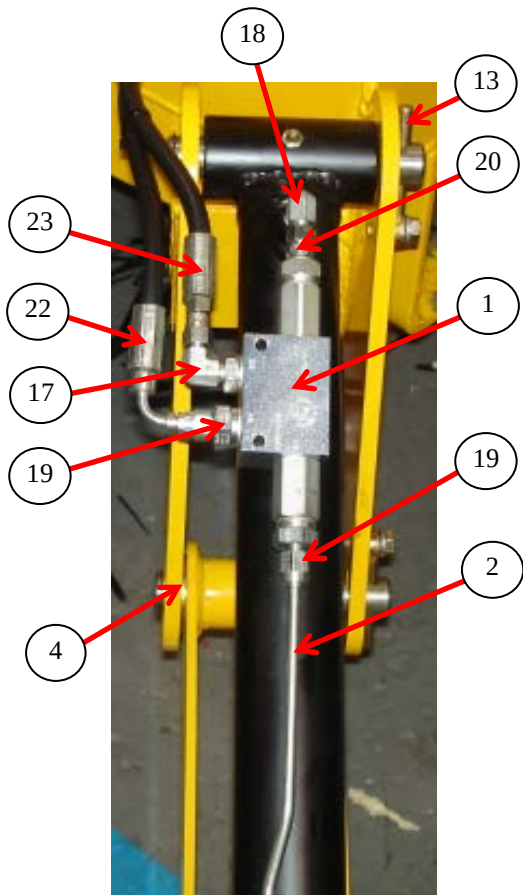
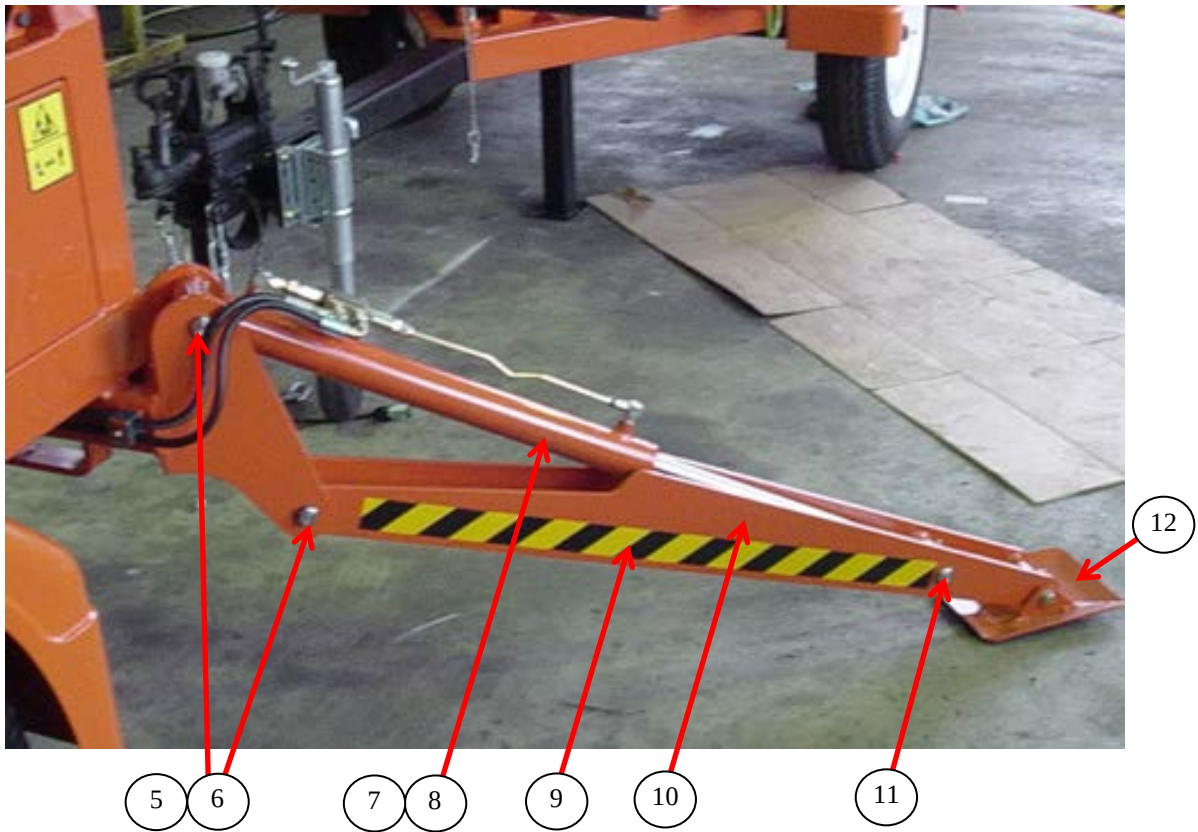


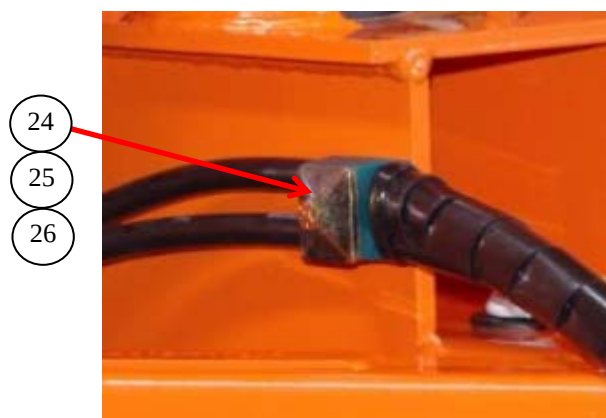
HYDRAULIC CONTROLS AND PUMP



Item	Part Number	Qty	Description of Part
1	1730252	1	Decal, Hydraulic Power Pack
2	1730132	1	Pump-Motor Assembly (Inc tank and valves.)
3	1730243	2	Decal, Caution Hydraulic Outrigger Operation
4	1734248	6	Nipple M/M with Encapsulated Seal ¼ BSPP x 7/16 JIC
5	1733368	2	Front Outrigger Hose Assembly
6	1733369	2	Rear Outrigger Hose Assembly (Straight + 90deg Hose End)
7	1733370	2	Rear Outrigger Hose Assembly (Straight Hose End)

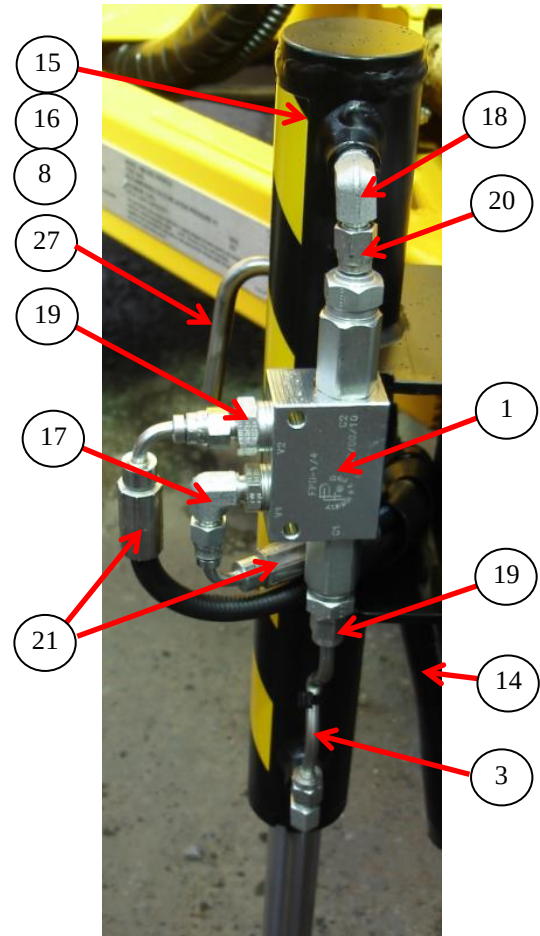
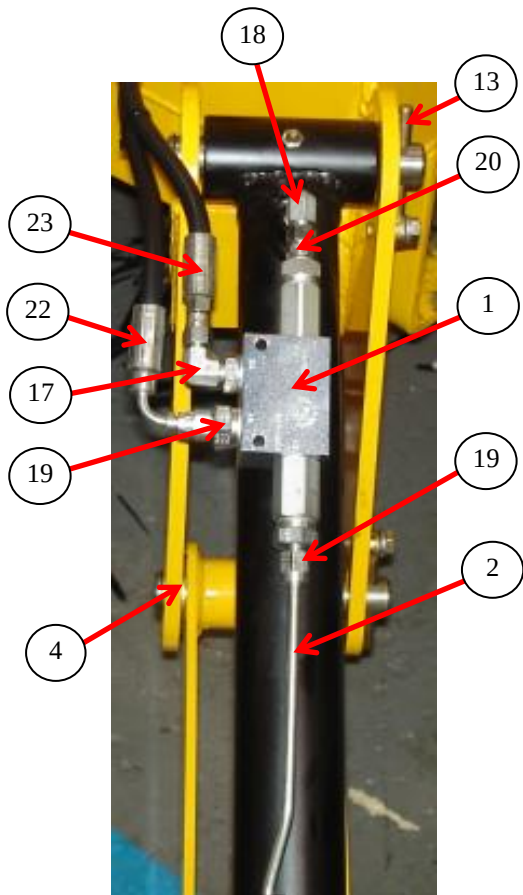
OUTRIGGER INSTALLATIONS

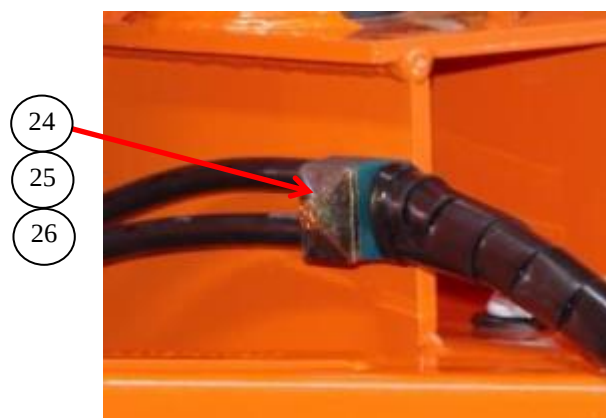




Item	Part Number	Qty	Description of Part
1	1730634	3	Double Pilot Check Valves
2	1733364	2	Rear Outrigger Cylinder Tube
3	1733365	1	Front Outrigger Tube
4	1730060	4	Outrigger Bush, Bronze
5	7011716	4	Ring, Retaining
6	1730441	4	Pin, Outrigger Mounting
7	1730256	2	Rear Hydraulic Outrigger Cylinder Assembly
8	1730398	3	Seal Kit
9	1737100	4m	Tape, Reflective Black/Yellow Diagonal 45mm
10	1730249	1	Weldment, LH Outrigger Leg
	1730248	1	Weldment, RH Outrigger Leg
11	1730245	2	Pin, Lower Outrigger Cylinder Mount
12	1730244	2	Weldment, Outrigger Foot
13	3841143	6	Keeper Pin
14	1730432	1	Assembly, Draw Bar Inner (Series I)
	1730901	1	Assembly, Draw Bar Inner (Series II)
15	1730257	1	Cylinder, Front Hydraulic Outrigger
16	1730397	1	Front Outrigger Cylinder Stop Tube
17	1733349	4	Elbow M/M ¼ BSPP x 7/16 JIC
18	1733343	6	Elbow M/M ¼ BSPT x 7/16 JIC
19	1733367	5	Nipple M/M ¼ BSPP x 7/16 JIC
20	1733344	3	Straight Union Adaptor M/F ¼ BSPP x 7/16 JIC
21	1733368	2	Front Outrigger Hose Assembly
22	1733369	2	Rear Outrigger Hose Assembly Straight and 90deg Hose End
23	1733370	2	Rear Outrigger Hose Assembly Straight Hose Ends
24	1735514	6	Stauff Clamp Double 12mm
25	1737913	3	Clamp Cap
26	1737914	3	Clamp Base
27	1001218635	A/R	Locking Pin, Swivelling Stabiliser Leg (Kit)

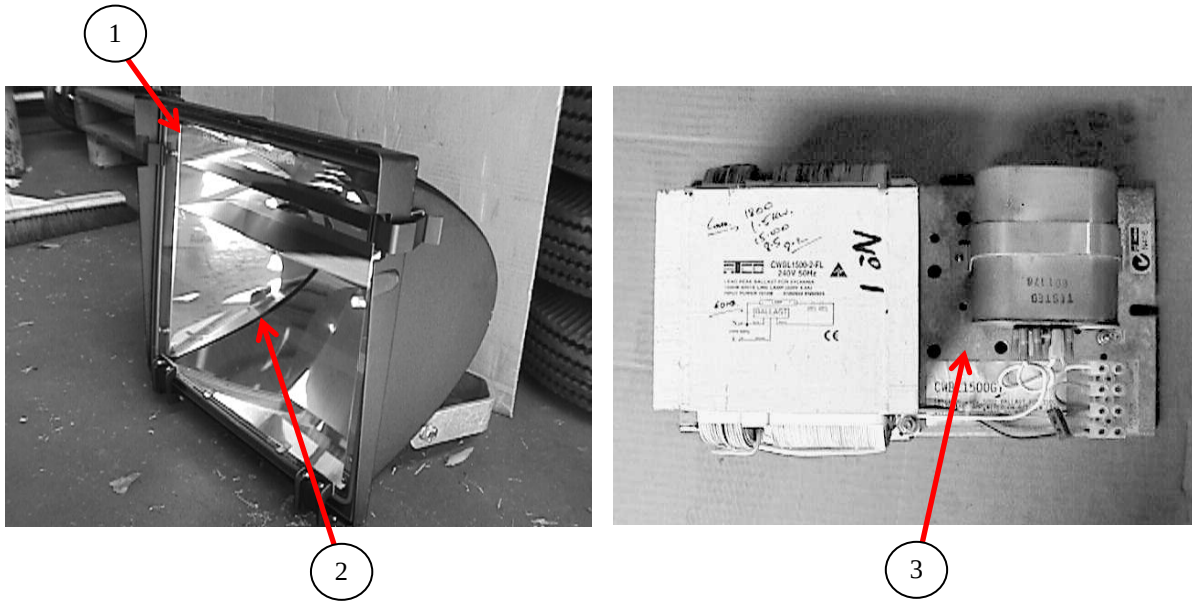
OUTRIGGER INSTALLATIONS





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5	7011716	4	Ring, Retaining
6	1730441	4	Pin, Outrigger Mounting
7	1730256	2	Rear Hydraulic Outrigger Cylinder Assembly
8	1730398	3	Seal Kit
9	1737100	4m	Tape, Reflective Black/Yellow Diagonal 45mm
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18	1733343	6	Elbow M/M ¼ BSPT x 7/16 JIC
19	1733367	5	Nipple M/M ¼ BSPP x 7/16 JIC
20	1733344	3	Straight Union Adaptor M/F ¼ BSPP x 7/16 JIC
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23	1733370	2	Rear Outrigger Hose Assembly Straight Hose Ends
24	1735514	6	Stauff Clamp Double 12mm
25	1737913	3	Clamp Cap
26	1737914	3	Clamp Base
27	1001218635	A/R	Locking Pin, Swivelling Stabiliser Leg (Kit)

8308ANH FLOODLIGHT ASSEMBLY



Item	Part Number	Qty	Description of Part
1	1730214	4	Lamp – 8308AN/8308ANH (Does not include item 2)
2	1730216	4	Bulb, 2000W – 8308AN/8308ANH
3	1730215	4	Ballast – 8308AN/8308ANH

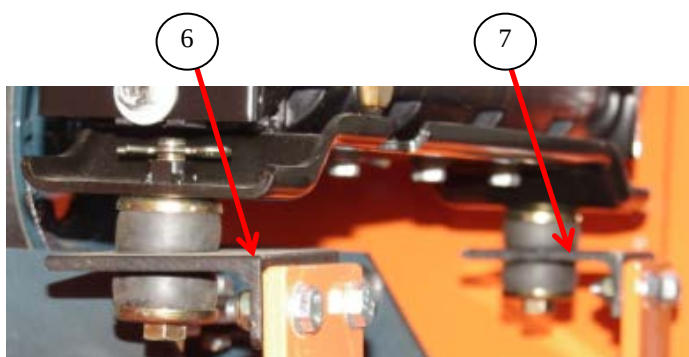
9308ANH LIGHT BAR ASSEMBLY



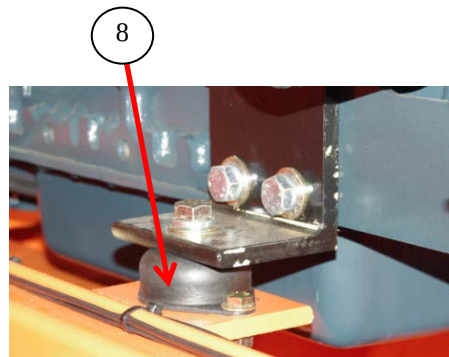
Item	Part Number	Qty	Description of Part
1	1733342	1	Mast AC Harness Assembly Lower (9308ANH Only)
2	1730250	1	Mast AC Harness Assembly
3	1733341	2	Light Conduit Assembly (1.5m) (9308ANH Only)
4	1734219	4	Light Conduit Assembly (1.1m)
5	1731325	1	6 Lights Junction Box Finished (9308ANH Only)
6	1734405	2	6 Lights LT Top Trunion Bracket (9308ANH Only)
7	1730586	4	Lamp Ballast Assembly
8	1732316	1	Nylatron Pad Strip 45mm Wide
9	1731333	2	9308ANH Lower Lamp Ballast Assembly (9308ANH Only)
10	1731331	1	Nylatron Pad Strip 45mm Wide Short (9308ANH Only)

MISCELLANEOUS PARTS





7



Item	Part Number	Qty	Description of Part
1	1730372	1	Decal, Model 6308ANH
	1730373	1	Decal, Model 8308ANH
	1731330	1	Decal, Model 9308ANH
2	1730608	1	Rear Panel
	1734228	1	Rear Panel (Series II Kubota Engine)
	1731328	1	Rear Panel (Series II Perkins 403D-11 Engine) (finished)
3	1734289	1	Kubota V2203 Engine (9308ANH Only)
4	1734290	1	Sincro SK160 20kVA Alternator (9308ANH Only)
5	1731329	1	Weldment Kubota V2203 Rear Exhaust Pipe (9308ANH Only)
6	1734130	1	Radiator Mount Bracket LH
7	1731326	1	Radiator Mount Bracket RH (9308ANH Only)
8	1731335	4	Rubber Mount, Engine and Alternator (9308ANH Only)