

**Nightshifter 4000**

# **Parts Manual**

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Power Your *Performance*

**GENERATOR AND  
LIGHTING TOWER**

# **Operation Manual**

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Complete this section on receipt of your new Lighting Tower.

In Service Date		Owner Name	
Allight Build		Unit No	
Engine Type		Serial No	
Alternator Type		Serial No	

The Allight machine you have purchased is a product of Allight's long years of experience with Mobile Lighting, Dewatering and Power Generation markets. Allight takes pride in the superior durability and operating economy of its products.

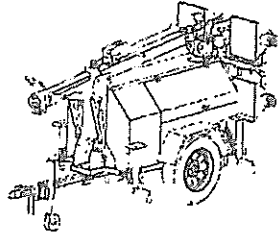
In order to receive maximum benefit from your product, please read this manual carefully and follow the operating instructions.

All information, illustrations and specifications contained in this manual are correct at the time of publication.

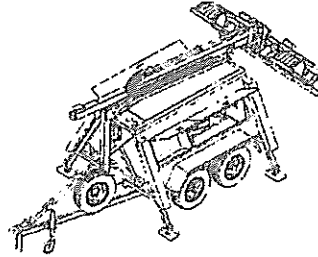
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### 3. IDENTIFICATION

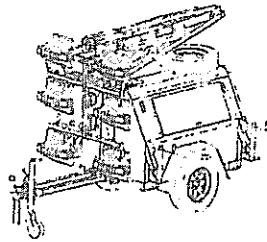
Note: Illustrated Models may contain non-standard options and accessories



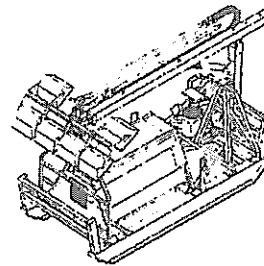
**NM-9 SERIES**  
NIGHTSHIFTER SERIES GENERATOR AND  
MANUAL LIGHTING TOWER



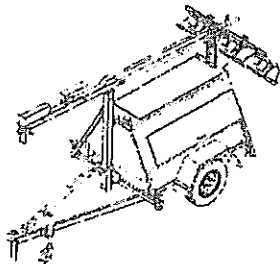
**MS-10 SERIES**  
MINE SERIES GENERATOR AND 10 M  
HYDRAULIC LIGHTING TOWER



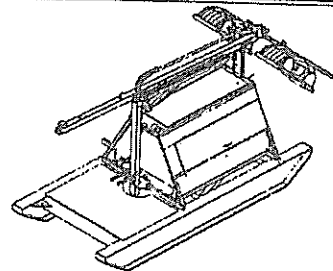
**NH-9 SERIES**  
NIGHTSHIFTER HYDRAULIC SERIES  
GENERATOR AND HYDRAULIC LIGHTING  
TOWER



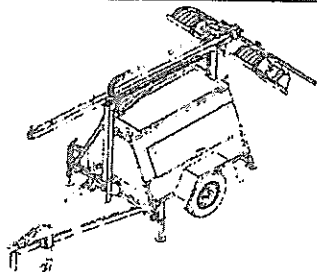
**SB-12 SERIES**  
SKID BASE GENERATOR AND 12 M  
HYDRAULIC LIGHTING TOWER



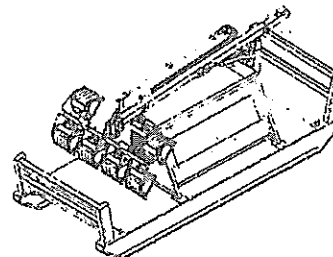
**MS-M SERIES**  
MINE SERIES GENERATOR AND 8.5 M MANUAL  
LIGHTING TOWER



**SB-9 SERIES**  
SKID BASE GENERATOR AND 9 M HYDRAULIC  
LIGHTING TOWER



**MS-9 SERIES**  
MINE SERIES GENERATOR AND 9 M  
HYDRAULIC LIGHTING TOWER



**SB-10 SERIES**  
SKID BASE GENERATOR AND 10 M  
HYDRAULIC LIGHTING TOWER

## 4. SPECIFICATION

	Model	NM-9	NH-9 (6K)	NH-9 (9K)	MS-M	MS-9	MS-10
General	Mast Height	8.5M	9.5M	9.5M	8.5 M	9.0 M	10.0 M
	Indicative Run Time	4.0KW – 45 Hours	6.0KW – 48 Hours	9.0KW – 30 Hours	4.5 KW - 70 Hours 6.0 KW – 55 Hours	4.5 KW - 70 Hours 6.0 KW – 55 Hours	9.0 KW – 60 Hours 12.0 KW – 45 Hours
	Battery	12V	12V	12V	12V	12V	12V
	High wall reach From Centre Line	N/A	3 M	3 M	N/A	4.7 M	6.0 M
Engine	Model	Perkins 403C-11 Cat 3011C	Perkins 403C-11 Cat 3011C	Perkins 403C-15 Cat 3015C	Perkins 403C-11	Perkins 403C-11	Perkins 404C-22
	Type	<ul style="list-style-type: none"> <li>• 1.1L (67.2 cid)</li> <li>• 3 Cyl.</li> <li>• Water-cooled</li> <li>• Diesel</li> <li>• Naturally Aspirated</li> </ul>	<ul style="list-style-type: none"> <li>• 1.1L (67.2 cid)</li> <li>• 3 Cyl.</li> <li>• Water-cooled</li> <li>• Diesel</li> <li>• Naturally Aspirated</li> </ul>	<ul style="list-style-type: none"> <li>• 1.5L (91.6 cid)</li> <li>• 3 Cyl.</li> <li>• Water-cooled</li> <li>• Diesel</li> <li>• Naturally Aspirated</li> </ul>	<ul style="list-style-type: none"> <li>• 1.1L (67.2 cid)</li> <li>• 3 Cyl.</li> <li>• Water-cooled</li> <li>• Diesel</li> <li>• Naturally Aspirated</li> </ul>	<ul style="list-style-type: none"> <li>• 1.1L (67.2 cid)</li> <li>• 3 Cyl.</li> <li>• Water-cooled</li> <li>• Diesel</li> <li>• Naturally Aspirated</li> </ul>	<ul style="list-style-type: none"> <li>• 2.2L (134.4 cid)</li> <li>• 4 Cyl</li> <li>• Water-cooled</li> <li>• Diesel</li> <li>• Naturally Aspirated</li> </ul>
AC Alternator	Type	<ul style="list-style-type: none"> <li>• Capacitor Controlled</li> <li>• 4 pole, single bearing</li> <li>• Brushless</li> </ul>	<ul style="list-style-type: none"> <li>• Capacitor Controlled</li> <li>• 4 pole, single bearing</li> <li>• Brushless</li> </ul>	<ul style="list-style-type: none"> <li>• Capacitor Controlled</li> <li>• 4 pole, single bearing</li> <li>• Brushless</li> </ul>	<ul style="list-style-type: none"> <li>• AVR Controlled</li> <li>• 4 pole, single bearing</li> <li>• Brushless</li> </ul>	<ul style="list-style-type: none"> <li>• AVR Controlled</li> <li>• 4 pole, single bearing</li> <li>• Brushless</li> </ul>	<ul style="list-style-type: none"> <li>• AVR Controlled</li> <li>• 4 pole, single bearing</li> <li>• Brushless</li> </ul>
Fluid Capacities**	Engine crankcase	3.4L (0.9 US gal)	3.4L (0.9 US gal)	6.0L (1.58 US gal)	3.4L (0.9 US gal)	3.4L (0.9 US gal)	8.9L (2.35 US gal)
	Hydraulic Fluid	N/A	N/A	10 L (2.64 US gal)	N/A	4.3L (1.14 US gal)	10 L (2.64 US gal)
	Engine Coolant	5.8L (1.53 US gal)	5.8L (1.53 US gal)	6.0L (1.58 US gal)	5.8L (1.53 US gal)	5.8L (1.53 US gal)	10 L (2.64 US gal)
Transport Dimensions (Trailer Version)	Length	2.4m (7'10")	2.35m (7'8")	2.35m (7'8")	4.8m (15'9")	5.2m (17'1")	5.7m (18'8")
	Width	1.2m (3'11)	1.45m (4'9")	1.45m (4'9")	1.9m (6'3")	2.1m (6'11")	2.25m (7'5")
	Height	1.4m (4'7")	2.2m (7'2")	2.2m (7'2")	2.6m (8'6")	2.6m (8'6")	2.8m (9'2")
	Gross Weight	840kg (1852lb)	1433 kg (3160lb)	1600kg (3530lb)	1350kg (3970lb)	1500kg (3300lb)	2500kg (5500lb)
Transport Dimensions (Skid Base Version)	Length	N/A	N/A	N/A	4.5m (14'9")	4.5m (14'9")	5.6m (18'4")
	Width	N/A	N/A	N/A	1.8m (6'3")	1.95m (6'5")	2.25m (7'5")
	Height	N/A	N/A	N/A	2.7m (8'10")	2.6m (8'6")	2.5m (8'2")
	Gross Weight	N/A	N/A	N/A	1600kg (3520lb)	1600kg (3520lb)	2700kg (5940lb)

\*\* For recommended fluid types refer to Spare Parts and Service Manual

\*\*\* For non standard builds, please refer to Allight supplied supplements