



**DO NOT use this equipment unless you are authorised to use it and, have been instructed in its safe use and operation**



Safety glasses must be worn at all times in work areas



Sturdy non slip footwear must be worn at all times



Long and loose hair must be contained



Close fitting / protective clothing must be worn



Hand Protection must be worn



Rings & jewellery of a loose nature must not be worn

## POTENTIAL HAZARDS:

- Includes pedestrians in the work zone, uncontrolled movement of crane or vehicle, hydraulic failure of crane, falling objects, moving machine parts, hazardous manual tasks - awkward, twisting, bending positions, lifting, carrying, or putting down objects, pushing, pulling objects, Being run over/ struck by vehicle / mobile plant causing serious injury/ death, Falling over on same level causing bruises, sprains, strains, fractures

## PRE-OPERATIONAL SAFETY CHECKS

- Ensure the engine crane has no cracks, damage to parts and there are no signs of hydraulic fluid leaks
- Ensure the Safe Work Load (SWL) is prominently displayed on the engine crane
- Checks the pins and bolts are in place as well as ensuring the controls give proper responses
- Ensure work area (including access and egress areas) are free from obstructions above or in the surrounding areas that could interfere with or obstruct the lifting procedure
- Ensure the lighting is appropriate

## OPERATIONAL SAFETY

- Ensure the parking or emergency brake is on and the gear shift is in park
- Manual transmissions should be in their lowest gear setting
- The vehicle ignition should be off with the steering wheel lock on
- Ensure all wheels on the crane are chocked
- Ensure the engine anchor points are in good condition
- Ensure the engine crane lifting arm is lowered to clear the engine bay, wheel crane into a position at the front of the vehicle
- Ensure the bleed valve on ram, is closed before pumping the handle to set ram into the required height for positioning the hook over the engine
- Ensure the hook to engine sling with the appropriate chain as per the manufacturer guidelines
- Ensure the load is balanced before undoing the engine mounts from the vehicle
- Ensure the engine clears the vehicle body when pumping the ram to avoid damage
- Ensure the engine crane is lowered slowly before wheeling the crane away
- Reverse the process to ensure engine is placed back in the vehicle

## POST-Operation:

- Check the crane condition and report any damage or defects
- Before storage, twist the release valve 1-1/2 turns counter clockwise to release the pressure in hydraulic cylinder
- Leave the machine in a safe, clean and tidy state



## ALWAYS

- ✓ Be aware of "pinch points" and keep fingers and feet away
- ✓ Check there is sufficient height for ram and boom
- ✓ Be sure load is secured and cannot move from the vertical line
- ✓ Use correctly rated SWL slings or chains to secure engine
- ✓ The approved lifting weight for each crane is stamped on the identification plate and must not be exceeded

## NEVER

- ✗ Modify or overload the crane
- ✗ Twist or pull crane sideways
- ✗ Use rope to secure the engine
- ✗ Work under a loaded crane
- ✗ Leave load suspended and unattended
- ✗ Lean a ladder against the crane



## Safe Work Procedure – Engine Crane

Authorised by HR Manager

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