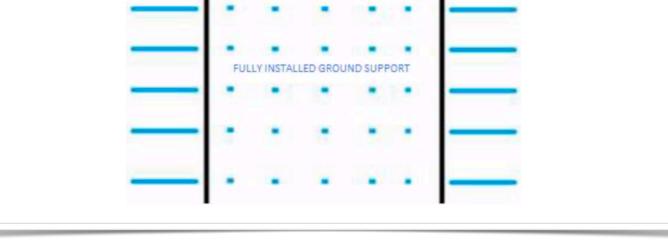


JUMBO OFFSIDER (NIPPER) - SHOTLIST

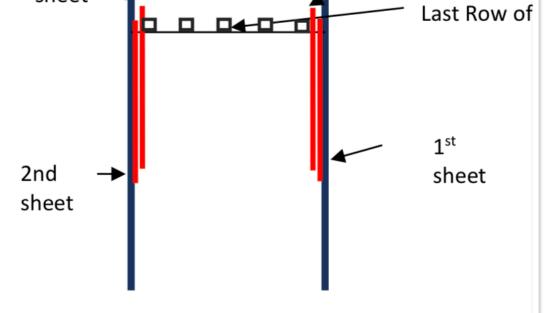
Check scale the walls where the mesh and or bolts will be placed

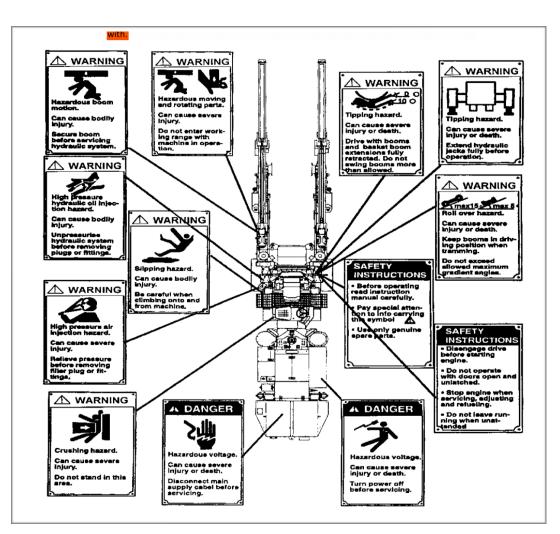
WHAT IS A NIPPER			
	e machine looks likeShow the machine at work, what it's used for.Animate machinearts and their namesImage: Safety FeaturesLabels animated around the machineSafety FeaturesImage: Safety FeaturesLabels animated around the machine		
	at the machine does	Underground Nipper is required to perform many duties and is an important part of the "mining curle" ellowing the lumbe to work	
DUTIES	Offsiding the Jumbo General assistance setting up and packing up		
	Placing bolts on the Jumbo feed rail Replenishing drill consumables and oils as instructed Image: Construct of the struct of th		
	Assisting the Jumbo Operator handling mesh and spotting bolt holes Setting up headings		
	Setting up headings Selecting the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount and type of bolts from the bolt store Image: Comparison of the correct amount amoun		
	(or) bolts only to headingst hat have been "cleaned up" after shotcrete Delivery of lifter tube to headings that require boring		
Other duties as directed by	Tool and equipment pickup and delivery including pumps		
	Rubbish removal from underground Check Scaling		
FAQ (WHAT TO KNOW DA	Y 1)		
PE REQUIREMENTS	Man Standing with full kit List of equipment. ensure you are wearing gloves, as burrs and sharp edges of the bolts can easily cause a deep laceration.		
/ATERIALS	Back to Back Coupler - Joins two electrical cables together.		
	Dolly- A tool for inserting split set rockbolts into bored holes. Droppers - Air, water and pump line services "dropping" from the main service lines in the backs to a working height in a heading or travel way.		
	Hydraulic Lockout Switch - Switch which disables all movement to the booms used by personnel venturing out past the jacks of the jumbo. Supported Ground Support - Ground with rock bolts and mesh, or		
	shotcrete and bolts. Unsupported Ground - Any ground that does not contain visible rock bolts, mesh and/or shotcrete.		
	Lifter tube- Poly pipe (40mm) inserted into lifter holes (floor holes) to prevent being covered by rocks when drilling. Misfire - Misfires are any hole that is suspected to contain explosives or		
	Mistire - Mistires are any hole that is suspected to contain explosives or blasting agent Plates- 1 plate required for every split set bolt, 2 types of plates are commonly used.		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	Split Set Bolt (splitty) - 2.4m and 3m friction rockbolt, also stubby type 0.9m.		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	Eye Bolts Expansion Shell Anchor Points Lifter Tube		
	Bundles of Split Set Bolts Bundles of mesh		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
QUIPMENT	Chain and shackles Shifter		
	Shifter Hacksaw Rope and tie down straps		
	L pins and eye bolts Safety Knife - auto retract blade safety cutter		
	Bolt cutters Hose repair kit Scaling bar		
	Scaling bar Rock oil (Drifter Lube) container - Black Container/ jerry can Hydraulic oil containers - Green Container/ jerry can		
SAFTEY REQUIRMENTS	Electric shock- DO NOT touch an energised Jumbo trailing cable or pump		
	• Three Phase Isolation to be followed before handling cables • Rotating parts - Never touch or approach the drilling booms when in		
	Any person going past the front jacks while the power packs are on MUST use the hydraulic lockout switch to disable all movement of the booms.		
	 Always stay clear of the Jumbo when it is tramming in case the machine slides or tips. The driver and all passengers in any vehicle shall wear standard miners 		
	PPE and sit on an approved seat and wear seat belts at all times. Light vehicles shall have a flashing beacen operating at all times whilst		
	Light vehicles shall have a flashing beacon operating at all times whilst underground, including when parked. Adjust your speed to suit the road conditions. 20kph max whilst towing loads.		
	Loads shall not overhang the sides of any vehicle and not more than 1 metre to the rear. Loads that may shift shall be secured.		
	No person is to position themselves under unsupported ground, under any suspended load or between a solid object and mobile equipment on a gradient at any time.		
	 Unsupported Ground - A rockfall may occur without warning at any time. Mark the position of the last fully installed row of rock bolts with a reflective orange cone on the ground or delineated poles hung from the mesh on both sides of the drive. 		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	Nippers shall check scale the walls before placing mesh and bolts in a heading.		
	Mesh is to be stood up against the wall, under supported ground with no more than 2 sheets stacked together Injury can occur from bolts and mesh falling onto personnel if they are not stacked properly against the wall.		
	 stacked properly against the wall. Jumbo cable shall be hung on L-Pins suspended out of any water, witches hats across any drives that the cable crosses and a "DANGER, Trailing Cable" sign displayed. 		
	 No person shall pass beyond the front jacks when a Jumbo is in operation and a visual signal is given by the operator before proceeding forward. The front jack position on both sides of the jumbo is to be clearly 		
	I he front jack position on both sides of the jumbo is to be clearly delineated (e.g. use safety cones, paint mark etc.) Jumbo operators shall not operate any controls when any person is forward of the jacks.		
	• Prior to entering working areas, verbal contact shall be made with the mobile equipment operators, to		
	advise of your intent and seek permission to enter the area. Image: the seek permission to enter the area.		
	Nippers shall wear long sleeved shirts or overalls, buttoned at the cuff and wear gloves when handling any equipment, tools and materials.		
	 Ensure work areas are correctly sign posted (i.e. "Danger Unsupported Ground") and that the sign is hung on 6mm chain and not rope. If a suspected misfire or explosive is found, barricade the area and report to Shift Supervisor immediately. 		
DEFINITIONS HAND SIGNALS	to Shift Supervisor immediately. SWIC Common hand guestures		
transportation rules manual handling rules			
stacking rules ground support rules Isolation/Tagging procedures			
START YOUR SHIFT RIGHT	alk to your cross shift Condition and location of the vehicle (Nippers ute)		
	Location and status of Jumbo's Inspect Saftey equipment.		
	Hazards and road conditions Status of headings - what is set up and what headings require set up Status of ground support stores - do they require replenishing?		
	Status of ground support stores - do they require replenishing? Pre Shift Meetings Obtain shift status sheet (shift plan) from Supervisor		
	Review Status sheet Inform Supervisor of any information you have that differs from the shift plan		
	e.g. heading not "set up" ready for bolt and boreArrange ground support store replenishment if requiredDetermine personnel drop off requirements and other duties		
BEFORE PROCEEDING UNDERGROUND	Determine personnel drop off requirements and other duties Image: Determine personnel drop off requirements and other duties Image: Determine personnel drop off requirements and other duties Image: Determine personnel drop off requirements and other duties Image: Determine personnel drop off requirements and other duties Image: Determine personnel drop off requirements		
	Conduct pre start check on vehicle Collect tools and equipment required for the shift		
	Obtain a complete set of current development survey plans which include ground support regimes to ensure the correct information pertaining to the types of ground support required for any heading is available.		
	support required for any heading is available.		
SOP LIST SETTING UP A HEADING	Example of the process		
	quipment required. 27-44 long rockbolts and plates (length depends on ground support plan)		
	4-6 sheets of mesh. 9-11 Stubbie bolts and plates		
	7 lifter tubes (if the face is to be bored out straight away) check that the light vehicle tray is relatively empty (the bolts will take up		
	Check that the light vehicle tray is relatively empty (the bolts will take up most of the tray) and proceed to the bolt store or laydown area Rock bolt plates can be loaded onto a stubble bolt for ease of handling and removed when at the heading.		
	removed when at the heading. 3 rock bolts is the maximum to be carried by a person at any one time Important NOT E The maximum load limit for light vehicles carrying ground support is 500kg.		
TOWING MESH UN	DERGROUND		
	Hazard Lights on Use radio to call up trucks to find the best time to enter the Decline		
	Inform all personnel the LV is towing mesh "from and to" and is non reversible Call a reminder approximately every few stockpiles		
	If you must pull over, confirm the best point to pass with the driver of the other vehicle If you do get stuck and must reverse: don't panic, mesh can be moved out		
	If you do get stuck and must reverse: don't panic, mesh can be moved out of the way by hand, or in an emergency disconnected and driven over		
ARRIVAL AT THE HEADING	Example of doing this task Before arriving at the heading: confirm with the Supervisor or Loader		
	Before arriving at the heading; confirm with the Supervisor or Loader operator that the heading is ready to be set up. When entering the drive keep an eye on the vent bag, ensuring it's supplying air into the heading. (make this a habit, everywhere underground)		
	supplying air into the heading, (make this a habit, everywhere underground) Report issues to the Supervisor Drive to about the last set of service "droppers" (supported ground); get out		
	of the vehicle and inspect the heading whilst performing a SWIC, taking particular notice of ventilation, ground support and ground conditions Never venture past the last row of bolts (reflective orange cones are to be in place at the last fully installed row of rock holts).		
	place at the last fully installed row of rock bolts)		



3rd sheet 4^t sheet

UNLOADING GROUND SUPPORT	Example of doing this task	
	Depending upon the size of the mesh you may need assistance.	NOTE
	Bolts neatly stacked against the wall Drive the vehicle NO CLOSER than 5m from any unsupported ground	CORRECT SET UP
	Disconnect the mesh from the towing chain When standing mesh against the wall, the shorter strands of mesh (i.e.	
	vertical) must be on the inside of the longer strands facing the wall. This is a requirement when installing the mesh as it prevents damage when firing Never stand more than 2 sheets of mesh together; People have been killed	
	by stacks of mesh falling over A recommended sequence for placing mesh is indicated below:	IMPORTANT NOTE, WARNING DEATH ICON FLASHING Animation of timing of applying structurse, NO WALK ZONES.
	AT NO TIME ARE YOU TO WALK UNDER UNSUPPORTED GROUND Assess the area using SWIC ,	IMPORTANT NOTE, WARNING DEATH ICON FLASHING >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	know the safest side to place the bolts and plates on, this is the side that you	
	will be standing when bolting Generally left side depending on the turn direction of the heading and	
	ground conditions If unsure - ask the Jumbo Operator.	TIP
	The vehicle can now be reversed out of the heading in anticipation of the	
	Jumbo Rehang the "Danger Unsupported Ground" sign before departing	
	It is good practice to inform the Shift Supervisor that the heading is "set up" ready to bolt and bore	BEST PRACTICE
	Injury can occur from bolts and mesh falling onto personnel if they are not stacked properly against the wall.	IMPORTANT NOTE, WARNING DEATH ICON FLASHING
VORKING WITH JUMBO		
WHAT IS A JUMBO (USE IN JUMBO SOP (IDEO)		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
What the machine looks like Key parts and their names	Show the machine at work, what it's used for.	Animate machine Labels animated around the machine
Safety Features		Labels animated around the machine
What the machine does Danger Areas		
ASSISTING WITH THE SETUP OF THE JUMBO	Follow the Jumbo into the heading, parking the vehicle at the Jumbo box or back to back coupler.	Animate Area to park
	Place the "Danger, Trailing Cable" sign at the Jumbo box / Back to back	
	Anchor the trailing cable to the eye bolt installed, the eye bolt shall be installed in such a way that there is no stress applied to the starter box or plug (do not connect to starter box at this stage)	Illustrate stress points
	Wait for the Jumbo to move to the working face while reeling out the trailing cable, stay clear	
	When the Jumbo has stopped and shut down hang the trailing cable on the L pins	
	Never handle or stand between the trailing cable and the wall whilst the Jumbo is moving, body parts may be struck, caught or crushed.	CAUTION NOTICE
Controller Settings	Ensure main isolator & control switch on the Jumbo is "OFF"	
	Check that the main isolator at the starter box is "OFF" Plug the trailing cable (macey plug) into starter box or back to back	
	Turn starter box panel isolator "ON" Return to the Jumbo and if instructed by the operator turn the main isolator	
	& control switch "ON" Never handle a Jumbo or pump cable with the power turned on or plugged in, electric shock may occur,	
	Place orange cones (witches hats) behind the Jumbo where the cable crosses the drive from the last L pin and in front of the cable across any openings that intersect the drive	
	Attach the water hose to the Jumbo, ensure safety clips fitted, turn on once instructed	
	Water and air coupling on the Jumbo may be near each other, ensure water is connected to the correct line	NOTE
	Ensure witches hats are covering protruding drill steels on the steel rack If the Jumbo is placing a pump at the face, assist the operator by watching the cables and bull hose, inform the operator if they are going to be run	
	the cables and bull hose, inform the operator if they are going to be run over Ensure witches hats are covering protruding drill steels on the steel rack	
	Ensure witches hats are covering protruding drill steels on the steel rack Orange reflective cones will need to be placed at the last row of fully installed bolts	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
	Reflective cones or delineators will also need to be placed at the front jacks	
		NOTE
ASSISTING WITH THE BOLT INSTALLATION	Example of task The bolting environment can be extremely hazardous with limited verbal	IMPORTANT NOTE, WARNING DEATH ICON FLASHING
	communication, but there are two golden rules when offsiding a Jumbo: 1. Do not move in front of the jacks whilst the operator is making any control	
	movements or drilling. 2. Do not go out under unsupported ground	
	Before commencing, discuss with the operator the best place to stand and load bolts, taking into account ground conditions, location of bolts and operator preferences	
	When starting it is best to ask the operator for a signal to load the next bolt, this may be a nod of the cap lamp when they have removed their hands	
	from the controls. As the operator commences drilling, watch the backs, keeping particular note of loose rocks in the mesh and poor ground near the last row of bolts.	
	Have a bolt and plate ready to load, when the operator signals proceed forward, look for trip hazards and stay under supported ground	
	No person shall pass beyond the front jacks when a Jumbo is in operation, a visual signal shall be given by the operator before a person can proceed	
	forward of the jacks When going past the front jacks while the power packs are on, personnel MUST use the hydraulic lockout switch to disable the movement to the	
	MUST use the hydraulic lockout switch to disable the movement to the booms If you cannot load the bolt without going under unsupported ground, stand	
	back behind the front jacks and have the operator move the bolting boom rail closer	
	Place the front of the bolt through the front centraliser and seat the rear of the bolt over the dolly	
	Place the plate over the front of the bolt in front of the front centraliser Move back behind the jacks until the bolt is installed and repeat the	
	process until complete When drilling the operator may require you to change a drill bit, again wait	
	until the operator stops all movement and signals to move forward, ensure you are under supported ground	
	remove the old bit and replace, (left hand thread). Ensure gloves are worn as the bit could be very hot	
	Remove any unused ground support from the heading and re-use or return to the store	
IYDRAULIC LOCKOUT SWITCH	Any person going past the front jacks while the power packs are on MUST use the hydraulic lockout switch. This includes loading bolts Any mechanical work must comply with Isolation and Tagging procedures	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
ISOLATION/TAGGING PROCEDURES	TO DETAIL IN WHAT TO KNOW DAY 1?	
SETTING UP FOR BORING	Example procedure detailed in SOP 6.10	
	Before the lifter tube can be inserted the holes must be checked.	
	Cut lifter tube into 1.2m to 1.7m lengths (depends on the amount of fall dirt expected)	
	Wait for the signal from the operator before proceeding forward (rig shut down) with the lifter tube and a steel rod hole scratcher (scratchie)	
	Scratch out any small rocks from the collar of the hole before inserting the lifter tube and pushing it down the hole at least 300mm	Animate
	Repeat until all holes have lifter tube in place Ensure the face is scaled and safe before proceeding to the lifters, keep an eve on the face and alert the operator if any loose rock is noted.	CAUTION NOTICE
	Ensure the face is scaled and safe before proceeding to the lifters, keep an eye on the face and alert the operator if any loose rock is noted. Once the lifter tubes are in place, the assistance you can offer the Jumbo is	
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COUPLING/UNCOUPLING	Ensure the face is scaled and safe before proceeding to the lifter, keep an eye on the face and alert the operator if any lesser to ck is noted. Conce the lifter tabes are in place, the anistance you can offer the Jambo is the face and left the operator if and face and to have long the operator thinks the face will take to beer and contract the Shift Supervisor to inform them of the status of the Jambo operator will position the booms for tramming and shut down. Turn main isolator and control switch at the Jambo "OFF" Proceed to Jambo state to beer and over TOFF" Upplug the trailing cable from the stater box or back to back (NB. Leave anchor chain connected to cyo bol). Proceed to Jambo stater box and turn main isolator "OFF" Upplug the trailing cable from the "L" pins Inform the operator it is clear to reverse out Sheed clear while the Jambo reverses back to the stater box / back to back will receiping in the cable Proceed to Jambo stater box, remove the trailing cable from the anchor pin Place dust cap on plug and attach the suchor chain to the Jambo and place meabing in its bolder Proce dust cab on protructing drill steels and hang the warming sign on the back of the Pare dust cab on plug and attach the suchor chain to the Jambo boom or other backhoes hats occer protructing drill steels and hang the warming sign on the back of the Pare dust cab on plug and attach the suchor bower source On on the pumps has are B.Wo or more manually, use the Jambo boom or other mechanical aid (an B.WD pump can weigh over BSkg when blocked with mud otc.) Parary purposed to table and bal	Image: Section of the section of th
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ASSISTING JUMBO PACK UP/PULL OUT OF A HEADING ASSISTING JUMBO PACK UP/PULL OUT OF A HEADING FLYGT PUMPS (ELECTRIC SUBMERSIBLE PUMPS FLYGT PUMPS (ELECTRIC SUBMERSIBLE PUMPS FLYGT PUMPS (ELECTRIC SUBMERSIBLE PUMPS FLYGT PUMPS (ELECTRIC SUBMERSIBLE PUMPS 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Ensure the tace is scaled and safe before proceeding to the lifter, keep an eye on the face and alert the operator if any losse rock is noted. Once the lifter tables are in place, the assistance you can offer the Jumbo is the operator for your ere still required. If mort find out how long the operator thicks the face will take to bore and contact the Shift Supervisor to refer meming and shuft down. Example of task. Example of task. United Attinuing and shuft down. Tum main isolator and cornel switch at the Jumbo 10°EF* Proceed to Jumbo starter box and turn main isolator "OFF* Proceed to Jumbo starter box and turn main isolator." OFF* Inform the operator is is clear to revense out. Sand down which is clear to revense out. Sand down which is clear to revense out. Sand down which is clear to revense out. Sand down which is clear to revense out. Sand down which is clear to revense out. Sand down which is clear to revense out. Sand down which is clear to revense out. Sand down which is allow at the the anchor chain to the Jumbo and place the place withe shat so ere protucing dill steels and hang the warning sign on the back offer. Prace withe has been disconnected for mere manually use the Jumbo boom or other back offer. Do not lift pumps that are 8 Wor or more manually use the Jumbo boom or other mechanel and (on the SWP pump can weigh ower 85kg when blocked with mud exc.) Excurs you posidint pumps shat the power has been turaned offer and the cables w	Image: section of the section of th
 ASSISTING JUMBO PACK UP/PULL OUT OF A HEADING ASSISTING JUMBO PACK UP/PULL OUT OUT OF A HEADING ASSISTING JUMBO PACK UP/PULL OUT OUT OUT OF A HEADING ASSISTING JUMBO PACK UP/PULL OUT OUT OUT OUT OUT OUT OUT OUT OUT OUT	Ensure the face is scaled and sele before proceeding to the lifters, keep an eye on the face and dort the spectrol of any loss is is noted. Chece the lifter types are in place, the assistance you can offer the Jumb to is firstance with the proceeding on and it regardle, if and that out how long the protein thinks the face will take to barrow during to the nece lob. Example of task: Example of task: When all chilling is complete the Jumb operator will position the booms for transming and shut down. Turn main isolator and cornal switch at the Jumb of CPF* More the trailing cable from the strene box or back to back (NB. Leave and the trailing cable from the 't'p ins Inform the operator it is clear to reverse out. Stand clear while the Jumb or types and the strene box / back to back while realing in the cable. When the Jumb or types are related to reverse out. Stand clear while the Jumb or types are related to the stanser box. Barrow the trailing cable from the 't'p ins Inform the operator it is clear to reverse out. Stand clear while the Jumb and Buck the anchor chain to the Jumb and place the place in task. Place due tags on plug and stack the prove the back not place. Place due tags on plug and stack the prove task beau named off and the cable has been disconnected from the power source. Place and task. Place task. Place task. Place task	Image: section of the section of th
 ASSISTING JUMBO PACK UP/PULL OUT OFA HEADING ASS	Ensure the face is scaled and safe before proceeding to the lifter, leap an eye on the face and alort the operator if any loose rock is noted. Check the lifter tubes are in place, the assistance you can offer the Jumbo is the imperiod. Alshe operator if you are still equivale, if not thid out how long the operator thus the face will take to bose and contract the Shift Supervisor to inform them of the status of the Jumbo operator will position the bosons for transmig and shall down. Check the lifter tubes of the Jumbo operator will position the booms for transmig and shall down. Turn man isolator and control switch at the Jumbo "OFF" Proceed to Jumbo stature box and turn main isolator "OFF" Turn man isolator and control switch at the Jumbo "OFF" Inform the operator it's clear to reverse out. Stand doer while the lumbo reverse back to the stature box / back to back the shall be jumbo and place the plag. Proceed to Jumbo stature box and targe box. Near the tailing cable from the "1" pins. Inform the operator it's clear to reverse out. Stand doer while the Jumbo roper reverse back to the stature box / back to back to back the back of the status of the plag. Prove the tailing cable from the "1" pins. Example of task. Description the back of the stature box / back to back of the stature of the status of the plag. Prove the tailing cable from the "1" pins. Example of task. Descripting the stare 8 LW or more manually, use the Jumbo and place the ba	Image: Section of the section of th
ASSISTING JUMBO PACK UP/PULL OUT OF A HEADING ASSISTING JUMBO PACK UP/PULL OUT OF A ASSISTING JUMBO PACK UP/PULL OUT OF A AS	Ensure the face is scaled and safe before proceeding to the lifters, keep an eye on the face and adact the operator if any loose node is noded. Conce the lifter ubges are in pices, the assistance you can offer the Jumbo be in Inneed. Atthe be pertor if you are suit a eye offer in the data and adact the submob before moving to the next job. Dearspie of fask Dearspie of fask When all drilling is complete the Jumbo before moving to the next job. Turm mean solutor and control switch at the Jumbo TCPT* Proceed to Jumbo store hox and turm main isolator "OT** Proceed to Jumbo store hox and turm main isolator "OT** Proceed to Jumbo store hox and turm main isolator "OT** Proceed to Jumbo store hox and turm main isolator "OT** Proceed to Jumbo store hox and turm main isolator "OT** Proceed to Jumbo store hox and turm main isolator "OT** Proceed the trailing coble from the "L" pirs Inform the Jumbo store, more the zailing cable from the anchor print Proceed to Jumbo store, more the zailing cable from the anchor print Proceed to Jumbo store, more the zailing cable from the proceed source and the anchor print Proceed to Jumbo store, more the zailing cable from the anchor print Proceed to Jumbo store, more the zailing cable. Proceed to Jumbo store, more the zailing cable. Proceed to Jumbo store, more main sile years to anchor print	Image: section of the section of th





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