

RD205

SUZUKI, 22 SPLINE, 10 BOLT RG

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ARB 4x4 ACCESSORIES

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IMPORTANT:

BEFORE ATTEMPTING TO DISMANTLE YOUR VEHICLE FOR THIS INSTALLATION, PLEASE READ THIS INSTALLATION GUIDE IN ITS ENTIRETY, AS WELL AS ALL APPLICABLE SECTIONS OF YOUR VEHICLE MANUFACTURER'S SERVICE MANUAL.

1.1 **Pre-Installation Preparation**

This booklet is to be used in conjunction with your vehicle manufacturer's service manual. ARB endeavors to account for every possible variation in vehicle model when publishing its installation guides, and guides are updated regularly as new model information becomes available, however, the rapid and globally varied release of some vehicles makes it difficult to insure that your vehicle model has been accurately accounted for. In the case of any technical discrepancies between this guide and your service manual, we strongly advise that you adhere to the specifications and techniques as documented in your service manual.

Although your *ARB Air Locker* comes complete with all the step by step instructions you will need to supplement your vehicle manufacturer's service manual and install your new differential, ARB recommends that you have your *Air Locker* installed by a trained professional. Many ARB distributors around the world have been fully instructed in *Air Locker* installations by ARB, and have gained a wealth of experience and skill from years of performing similar installations.

Once you begin this installation your vehicle will be immobile until all steps of the installation are complete. Make sure your *Air Locker* kit is the correct model for your vehicle and that it contains all of the parts listed on back cover of this booklet. Also be sure you have appropriately equipped yourself with all the necessary tools, parts, and materials to complete this installation (see Section 1.2 *Tool-Kit Recommendations*), and that you have allowed for an appropriate amount of vehicle down time.

HINT :

Place a ✓ mark inside each of the □ symbols as you complete each step. It is very important NOT to miss any of the steps!



1 Introduction

1.2 Tool-Kit Recommendations

Below is a list of tools and supplies you <u>may need</u> to complete this installation. Requirements for your vehicle may vary. Please consult your vehicle service manual for additional recommendations.

1.2.1 Tools

Standard automotive sizes (metric and/or imperial) of sockets, wrenches, Allan keys, and drills.
A dial indicator or other suitable measuring tool for checking ring & pinion backlash.
An adjuster-nut pliers. (e.g., ARB Adjuster Nut Pliers #0770002)
A razor knife suitable for cutting nylon tubing.
A torque wrench. (See your vehicle service manual for the required torque range.)
A lubricant drain reservoir.
A 11.2mm [7/16"] drill and ¼"NPT tap for bulkhead fitting installation.
 An automotive bearing puller (e.g., ARB Bearing Puller #0770001) or a differential carrier bearing puller. A slide hammer.
A bearing press or arbor press.
1.2.2 Supplies
Thread lubricant/sealant compound (e.g., LOCTITE #567)
Thread locking compound (e.g., LOCTITE #272)
A gasket sealant or replacement gasket for your third member.
A sufficient volume of differential oil to completely refill your housing. (See the ARB Air Locker Operating and Service Manual

- for recommended lubricants)
- A soap and water mixture to test for air leaks.
- Teflon paste.



2 Removing the Existing Differential

2.1 Vehicle Support				
Safely secure the vehicle on a hoist. We recommend supporting the vehicle on a chassis hoist to keep the differential area at a convenient working height and to leave the wheels and axles free to be rotated and removed.				
Once supported off the ground, release the parking brake and leave the vehicle in neutral. Chock the wheels if necessary.				
2.2 Differential Fluid Drain				
Clean around the differential drain plug to prevent dirt from entering the differential.				
Position a fluid drain reservoir under the differential and loosen the differential drain plug.				
Completely drain all differential fluid.				
HINT : This is a good time to check for metal particles in your oil and in the bottom of the housing which may indicate a worn bearing or differential component.				
2.3 Removing the Axles and Differential				
Remove the axles according to your vehicle's service manual.				
HINT : When removing the axles try not to damage the paper gaskets behind the axle flanges.				
Disconnect the drive shaft from the flange of the differential.				
Remove the third member from the differential housing. Refer to your vehicle's service manual.				
IMPORTANT :				
Collision damage or heavy off-road use of your vehicle in the past may have resulted in some degree of bending in the axle. Any misalignment of the axle tubes may result in excessive wear and/or failure of your differential and axle shafts. ARB strongly recommends that you have your axle assembly inspected for concentricity and straightness before installing your <i>Air Locker</i> .				



2 Removing the Existing Differential

2.4 Marking the Bearing Caps

- Using a small pointed center punch, gently mark the bearing caps in a way that will enable you to know which cap is 'LEFT' and which cap is 'RIGHT', which way is 'UP' and which way is 'DOWN'. (Fig.1.)
- Mark the right hand cap in a similar way.
- HINT : Many installers choose to make one punch mark on the left hand side of the left hand bearing cap and a similar mark on the housing at close proximity to the cap mark. The right hand side is then designated with two punch marks on the right hand side of the cap and two similar punch marks on the housing.



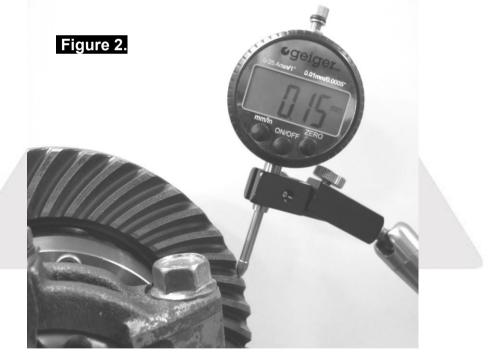


2.5 Checking the Current Backlash Amount

IMPORTANT:

This step is a precautionary measure recommended by ARB due to the fact that some after market ring and pinion sets have been manufactured to run with different backlash settings than those specified by your vehicle manufacturer. Although ARB must recommend you set backlash according to your service manual guidelines, we also advise that you compare the backlash measurements taken here to the recommended backlash settings in your vehicle service manual. Measurements found to be outside of your service manual recommendations may indicate the need to deviate from those settings in order to achieve quiet running with a good contact mark.

Refer to your vehicle service manual or your local authorized ARB installer for more information.



Set a dial indicator on one of the ring gear teeth. (Fig.2.)

While supporting the pinion gear by holding the pinion flange, rotate the differential in both directions while observing the maximum variation in depth from the indicator (i.e., the highest value minus the lowest value). This value is referred to as the ring and pinion backlash.

 \square Rotate the differential center 90° and measure again for accuracy.

Record the average of all measurements.



2 Removing the Existing Differential

2.6 Removing the Differential Carrier

Remove the adjuster nut locking tabs.

- Remove the bearing caps from the third member.
- Remove the adjuster nuts.
- Carefully remove the differential carrier from the third member.
- Remove the tapered roller bearings from the differential carrier with a bearing puller. (Fig.3.)

HINT : Check the condition of the bearings for wear and replace if necessary.





3.1 Mounting the Ring Gear				
Remove the bolts that hold the ring gear in place.				
Using a plastic or copper hammer, tap in a circle around the ring gear to separate it from the differential carrier.				
☐ Thoroughly clean any thread locking compound or other foreign matter from the holes of the ring gear, the threads of the ring gear bolts, the mating surfaces of the ring gear and the <i>Air Locker</i> flange.				
HINT : Rubbing the ring gear mounting face with a flat oil stone before installation will remove any high spots around the threads.				
☐ Heat the ring gear to between 80 and 100°C (175 - 212°F) in hot water or in an oven to slightly expand the gear and facilitate assembly.				
NOTE : <u>NEVER HEAT GEARS WITH A FLAME!</u> This could				
damage the hardened surface of the gear and result in premature wear or failure.				
Dry the gear and tapped holes with compressed air (if wet).				
Apply a thin film of high-pressure grease to the ring gear shoulder of the <i>Air Locker</i> to prevent seizing.				
☐ Install the ring gear onto the <i>Air Locker</i> by aligning the tapped holes and then gently tapping it around in a circle with a soft mallet or hammer. Avoid using the bolts to pull the ring gear down as this puts excess strain on the bolts and the differential flange.				
Apply a thread locking compound to the thread of each ring gear bolt before inserting it. Do not apply locking compound directly into the threaded hole as this could prevent the bolt from reaching its full depth.				
NOTE : On some models, the crown wheel bolts cannot be reused and should therefore be replaced. Refer to your vehicle manufacturer's service manual for details.				
Tighten the ring gear bolts in a star pattern with a torque wrench				

(Fig.4.) set to your vehicle manufacturer's specified torque.





3.2 Installing the Carrier Bearings

Apply a thin film of high pressure grease to the bearing journals of the *Air Locker*, then press the bearing cones onto the bearing journals as shown in Figure 5.

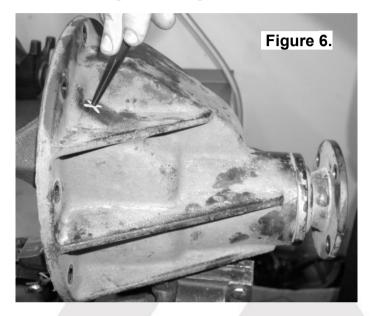




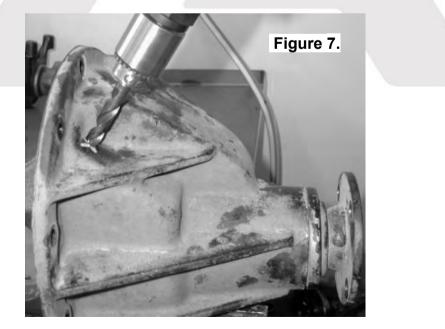
3.3 Drilling and Tapping the Bulkhead Port

An air line port must be drilled and tapped through the differential housing to mount the bulkhead fitting into.

Mark a spot on the right hand side (opposite the ring gear) toward the top of the differential housing that is in an area well clear of the differential, the ring gear, and any other obstructions that could snag the seal housing tube. (Fig.6.)



- Cover the drive pinion area with a rag to protect it from metal filings.
- Secure the differential housing to the work bench.
 - Drill an 11.2mm [7/16"] diameter hole through the differential housing square to the outside surface. (Fig.7.)





 Tap the hole from the outside using ¼"NPT thread tap. Remove any sharp edges that may chip off from around the hole and fall into the housing. Very carefully, remove the rags and inspect with a service light inside the housing to insure no metal filings are left behind. 			
3.4 Final Air Locker Assembly			
Clean all parts of the differential assembly making sure it is free from any contaminants (e.g., dirt, water, metal fillings, etc.)			
Holding the bearing cups in position, place the Air Locker into the differential housing and install the bearing caps.			
NOTE : Be sure to check that the bearing caps are on the correct sides of the third member and are correctly aligned.			
Insert the bearing cap bolts and hand tighten.			
NOTE : Before attempting to install the adjuster nuts, make sure the threads on the inside of the bearing caps and differential housing are perfectly aligned. If they are not, the threads could be stripped.			
Insert and lightly hand tighten the adjuster nut supplied with the Air Locker kit into the ring gear side bearing cap.			
NOTE : You should feel no backlash between the ring and pinion gears once the adjuster nut tightens.			
 Reverse the adjuster nut (counterclockwise) ¼ turn. Insert the original adjuster nut on the opposite side of the differential and tighten with the appropriate adjuster nut wrench. 			
NOTE : You should now feel some backlash between the ring and pinion gears. If not, there might be a clearance problem which is binding the carrier. Recheck the clearance.			



3.5	Checking the Backlash				
☐ Wi rot wa an ☐ Ro	et a depth indicator on one of the ring gear teeth (Fig.8.). hile supporting the pinion gear by holding the drive shaft flange, cate the differential in both directions while observing the aximum variation in depth from the indicator (i.e., the highest lue minus the lowest value). This value is referred to as the ring d pinion backlash. otate the differential center 90° and measure again for accuracy. efer to your vehicle service manual for the specified maximum d minimum amounts of backlash.				
ins	<u>IMPORTANT:</u> It is critical to set up bearing pre-load when a differential is installed. Improper pre-load will result in undue bearing wear, increased stresses in the differential center, increased running noise, and ultimately, ring and pinion gear damage.				
 Adjust the backlash and pre-load using an adjuster nut wrench to tighten or loosen the adjuster nuts as required. (Refer to your vehicle service manual.) Recheck backlash as before, repeating this procedure until backlash is within the specified amount. Tighten the bearing cap bolts with a torque wrench to the torque specified in your vehicle manufacturer's service manual. 					
	<image/>				



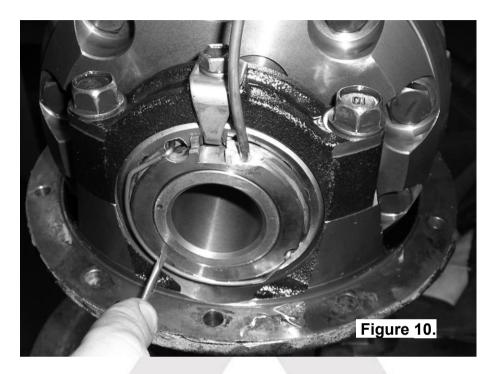
and the F

3.6 Installing the Seal Housing				
Make sure the grooves and airway of the seal housing are clean and free from any contaminants (e.g. water, dirt, metal filings, etc.).				
Inspect the seal housing O-rings (supplied) for dirt, damage or other conditions which might cause leaks.				
Generously lubricate the O-rings with oil prior to assembly, then insert them into the grooves of the seal housing.				
NOTE : When assembling the O-rings, be careful not to leave them twisted when seated in the grooves as this could cause excessive wear and leakage.				
Lubricate the seal housing running surface on the <i>Air Locker</i> carrier with oil.				
Carefully install the seal housing by sliding it all of the way onto the bearing journal with a gentle twisting motion until it sits flat against the adjuster nut.				
NOTE : A twisting motion (i.e., a slight rotation while pressing the seal housing on) will allow the O-rings to engage gently and prevent them from twisting. Twisted O-rings will result in pre-mature O-ring wear and oil contamination in the air system due to the helical shape formed by the O-ring mould line.				
☐ Rotate the seal housing until the square cutout lines up with the locking tab position at the center of the bearing cap, and then assemble the locking tab. (Fig.9.) Ensure adequate clearance between tab and cutout.				



Figure 9.

Install the spring clip by first hooking both ends of the clip into the small aligned cutouts of the seal housing and the adjuster nut, and then snapping the clip into the groove of the seal housing using a screwdriver. (Fig.10.)



Check that the seal housing is now secured from rotating and that it is still sitting flat against the adjuster nut.

3.7 Setting up the Bulkhead Fitting

- Apply thread sealant to the outside threads of the bulkhead body.
 - Screw the bulkhead body into the tapped hole, and lightly tighten using a 14mm [9/16"] spanner.
 - Wipe the area clean of any excess thread sealant (inside and outside of the housing).
- ☐ Without using sharp, jagged tools such as pliers (your hands are the best tool for this job), bend the seal housing tube on the outside of the housing to approximate the finished profile. This will allow the tube to be trimmed to a length that would allow it to protrude from the bulkhead fitting. (See Fig. 11.).



IMPORTANT:

The seal housing must still be able to freely float after the tube is connected to the bulkhead fitting. Therefore, it is critical to ensure that the tube is not under any tension. To avoid this always leave the tube long enough so that a hook shape can be formed between the seal housing and the bulkhead.

NOTE : Use an automotive brake line tubing cutter to cut the seal housing tube, never a hacksaw as this will leave metal filings in the air system.

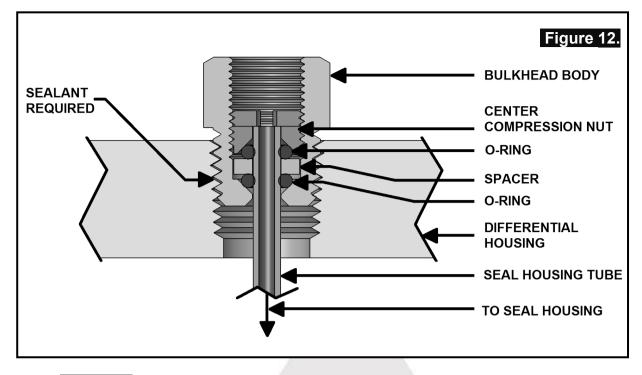


- ☐ Insert the free end of the seal housing tube into the bulkhead fitting until it protrudes approximately 8mm [5/16"] through the other side.
- From the outside of the housing, assemble one of the small O-rings over the top of the short length of seal housing tube protruding through the bulkhead fitting.

Install the brass spacer.

- Install the second small O-ring after the spacer.
- ☐ While holding the seal housing tube into the bulkhead fitting, insert the chamfered end of the center compression nut over the extended tube as shown in the assembly diagram (Fig. 12.), and screw it into the bulkhead body, and tighten using Pozidriv #3 screwdriver.





NOTE :

Make sure the seal housing tube is all of the way into the center compression nut while you are tightening it.

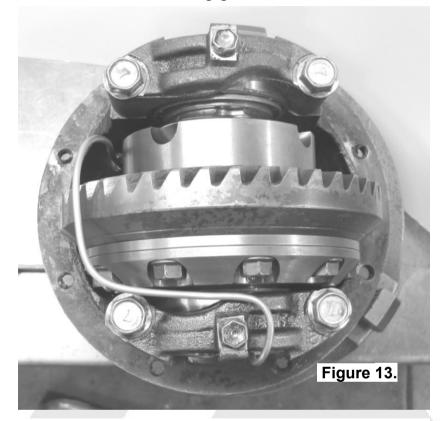
NOTE :

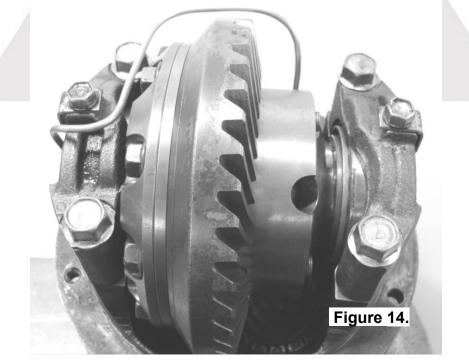
Firmly tighten the center compression nut so that a good seal is formed around the tube.



3.8 Profiling the Seal Housing Tube

- ☐ With the seal housing tube now firmly secured into the bulkhead fitting, bend the tube so that it closely follows the profile of the differential. (Figs.13., 14. & 15.)
- Check that the contour of the tube will not interfere with the bearing caps, the *Air Locker* or the ring gear.









IMPORTANT:

In order for the seal housing to float and self center on the bearing journal, the seal housing tube must not be pulling against the seal housing. To check this, rotate the drive flange back and forth while observing the seal housing movement. The seal housing should rotate slightly against the spring clip, but it should not appear to pull away from the face of the adjuster nut.

IMPORTANT:

Check that the tail of the adjuster nut locking tab does not push on the seal housing. Bend it up away from the seal housing with a screw driver if necessary.



3.9 Bench Testing the Air Locker

- To test the *Air Locker*, when 620kPa [90 PSI] shop air is applied to the seal housing tube, the *Air Locker* should engage.
- Check all fittings and the seal housing for air leaks.
- Rotate the differential carrier by turning the pinion flange whilst applying air pressure.
- NOTE : An accurate way to test for air leaks is to fit a shut-off valve to an air pressure gauge. (ARB part # 0770005 shown in Fig.16.). Once 620 KPA [90 PSI] is reached close the valve, disconnect the air hose, and watch to see if there is any drop in pressure. If so, this will indicate an air leak.



If a leak is found to be present, spray a soap and water mixture onto the bulkhead air fitting. Bubbles should appear at any leak points.

NOTE :

E : Do not spray this soapy mixture inside the differential.

- Check that leaky fittings have been adequately tightened.
- Disassemble, clean threads, and reapply thread sealant if leaking persists.
- If a leak is found at the seal housing, carefully remove and refit. Be very careful with the O-rings and check they have not been damaged during installation.



3.10 Reinstalling Differential and Axles				
Replace the paper gasket on the axle housing flange.				
Reinstall the third member to the differential housing according to your vehicle service manual.				
Reinstall the drive shaft.				
Replace the axle seals if necessary and fit to the axles.				
Insert both axles fully into the housing, engaging splines, and then gently tap them inward.				
NOTE : Be careful not to damage the axle shaft oil seals when installing the axle. Support the axle's entire weight where possible.				
Torque down the axle bolts to manufacturer's specifications.				



4.1 Mounting the Solenoid

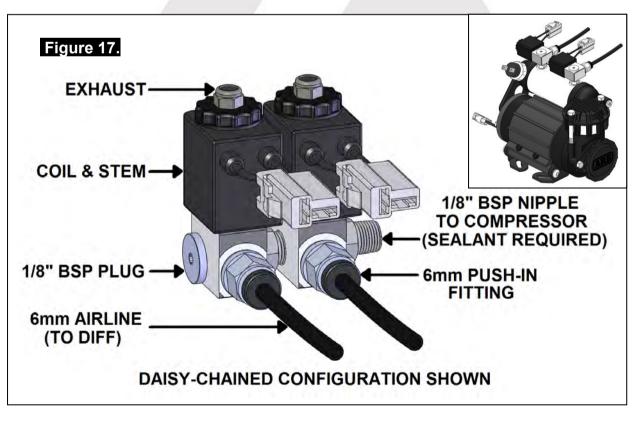
4.1.1 Connection to an ARB Air Compressor (Fig.17.)

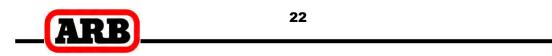
Remove one of the 1/8" BSP plugs from its port in the compressor tank.

Apply Teflon paste to the 1/8" BSP nipple on the solenoid and insert it into the port and tighten. The solenoid should be rotated into a position which does not obstruct any other ports on the compressor tank.

- **NOTE :** The coil and stem of the solenoid can be removed to make installation easier.
- NOTE : The solenoid is marked with two #1 ports. If space is tight, a second solenoid can be "daisy-chained" off the first one by removing the plug from the redundant #1 port and screwing the nipple from the second solenoid into it (Fig. 17.).
- **NOTE :** The solenoid exhausts compressed air through the center of the black retaining cap when the *Air Locker* is disengaged. Make sure this orifice cannot be obstructed.

Assemble the 6mm push-in fitting into the solenoid outlet port (stamped "2") and hand tighten.





4.1.2 Connection to an Alternate Air Source

For ease of installation, quality of air supply, and a high level of dependability from your *Air Locker(s)*, ARB strongly recommends use of a genuine ARB Air Compressor, however, the *Air Locker* air system can be operated on any alternate air source that meets each of the following guidelines:

 Must supply a minimum of 586 kPa [85 PSI]. The air source should have a tank capacity which enables it to actuate the <i>Air Locker</i>(s) in one charge so that no hesitation is experienced when locking one or two differentials. 				
	capacity is to ma and then reenga source having to	-	engage, disengage, <i>r(s)</i> without the air without the	
☐ Must su matter.	pply clean air, fre	e of rust, dirt, water	, or other foreign	
Must ma	atch the 1/8" BSP	porting of the Air L	ocker solenoid.	
	olenoid within clo e effects of vibration		air supply and secure it	
		the 1/8" BSP inlet p noid body) using thr		

IMPORTANT:

ARB cannot warrant your *Air Locker(s)* against damage caused as a result of using an alternate air supply. If you have any doubts as to the suitability of your air system to use in an *Air Locker* system, consult your ARB distributor.



4.2 Running and Securing the Air Line

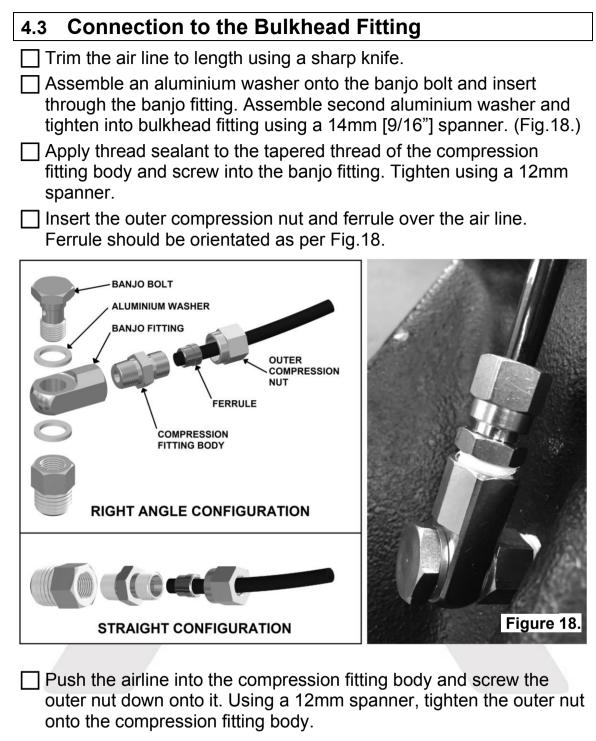
The path taken by the air line from your air source (i.e., compressor) to your *Air Locker* is unique to your vehicle and the position of your air source. Plan ahead carefully when running the air line and always follow these guidelines:

Account for axle travel when running the line from the axle to a fixed point on the vehicle. Leave enough slack in the air line to allow for maximum suspension travel in both directions.

Avoid leaving large lengths of air line hanging underneath the vehicle where they may get tangled on rocks, sticks, etc.

- HINT : Cable tying the air line to one of your flexible brake lines will account for axle travel and should help keep your line from getting snagged.
- Run the air line all the way from the compressor to the differential before trimming either end of the line to length. This will save complications that may arise if the air line has to be removed.
- Make sure the line does not contact sharp edges or abrasive surfaces that may damage the air line over time.
- Do not run the air line around tight bends that may kink the air line and restrict or block the air flow.
- Keep the air line well away from your vehicle's exhaust components. Air lines will melt if subjected to extreme heat.
- Do not run more air line than necessary. Excess line volume created when coiling the left over hose, using unusually large diameter hose, etc., will increase drain on the compressor tank resulting in the compressor running more often than needed.
- Support the air line by tying it back with cable ties wherever possible.
- At the solenoid end of the air line, trim the line to length with a sharp knife.
- ☐ To attach the air line to the push-in fitting of the solenoid; insert the line firmly into the fitting, pull outward on the flange of the fitting while holding the line as far into the fitting as possible, and then gently pull outward on the air line to clamp the line in place.
- NOTE :
- To remove the air line from the push-in fitting; push the air line as far into the fitting as possible and hold, push inward on the flange, and then pull the air line free of the fitting.





NOTE : Some force is required to crush the ferrule, however the outer compression nut will tighten against a stop. Over tightening will not create a better seal.

Secure any loose sections of tube with a cable tie.

NOTE : When right angle routing of the tube is not required, screw the compression fitting body straight into the bulkhead fitting body (Fig.18.).



5 Mounting & Connecting the Electrical System

5.1 Mounting the Actuator Switch(es)

Air Locker actuator switch(es) can be easily panel mounted inside the vehicle in a 21mm x 36.5mm [0.83" x 1.44"] rectangular cutout.

NOTE : Only attach the cover plate to the face of the switch once the switch has been mounted and wired correctly as the cover plates are designed to be difficult to remove.

For reasons of safety and for ease of operation, the *Air Locker* actuator switch(es) should be mounted in a location picked to best suit the operator. Make sure you have taken the following points into consideration:

- Switch(es) MUST be mounted and should never be allowed to simply dangle from the wiring loom during vehicle use.
- Switch(es) should be within easy reach of the driver. Ideally, any *Air Locker* switch should be able to be operated without physical effort or distraction to the driver.
- Switch(es) should be mounted within the line of sight of the driver so that switch position ('ON' or 'OFF') can be visually determined by the rocker position and the illumination state.
- The position of the switch(es) should best eliminate any possibility of accidental operation by the driver or one of the passengers.
- Switch cutout position(s) must be located in an area with a minimum of 50mm [2"] of clearance behind the face of the cutout.
- Switch(es) should not be mounted where they will be exposed to water (e.g., in the lower section of an inner door panel).
- ARB recommends that you apply the *Air Locker* Warning Sticker (ARB part # 210101) within close visual proximity of the switch location.
- NOTE :

If no adequate position can be found on existing dashboard panels, a surface mounted bracket (Fig.19.) may be purchased from your ARB *Air Locker* distributor to suit 1, 2, or 3 switches.





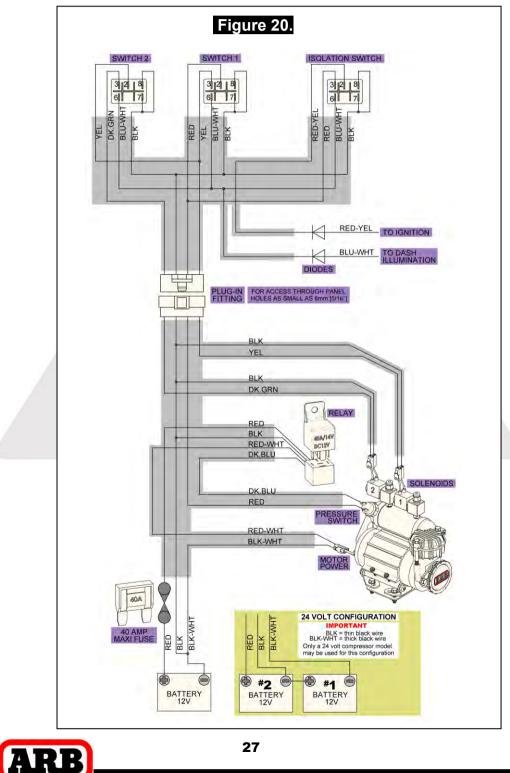
5.2 Wiring the Actuator System

5.2.1 Connection to an ARB AIR COMPRESSOR

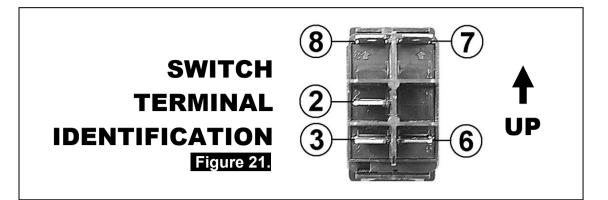
When wiring the *Air Locker* actuator switch(es) and solenoid(s) to an ARB Air Compressor, all connections can easily be set up directly from the supplied wiring loom. (Fig.20.)

NOTE :

180409 model loom shown for reference only. Refer to your ARB Air Compressor Installation Guide for details on configuring your installation.



5 Mounting & Connecting the Electrical System



5.2.2 Connection to an Alternate Air Source

When connecting the actuation switch to an alternate air source, the switch(es) should be wired according to figures 22. and 23. depending on whether one or two *Air Lockers* will be installed in the vehicle.

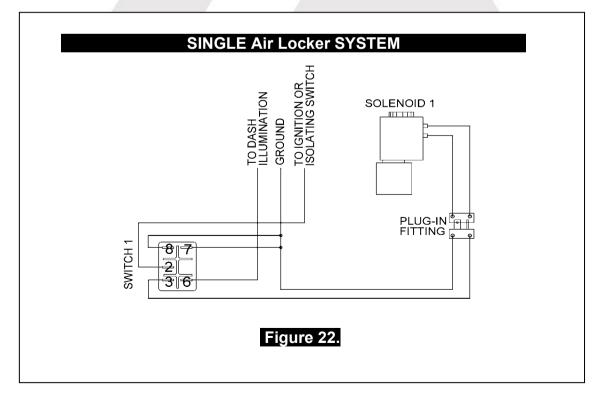
5.2.2.1 Single Air Locker System

☐ If only one *Air Locker* is to be installed in the system, the switch and solenoid should be wired according to figure 22. regardless of whether the *Air Locker* has been installed in the front or rear axle of the vehicle.

Attach the appropriate switch cover (i.e., 'FRONT' or 'REAR') to the switch.

NOTE :

Refer to figure 21. for the correct switch terminal identification and switch orientation.





5 Mounting & Connecting the Electrical System

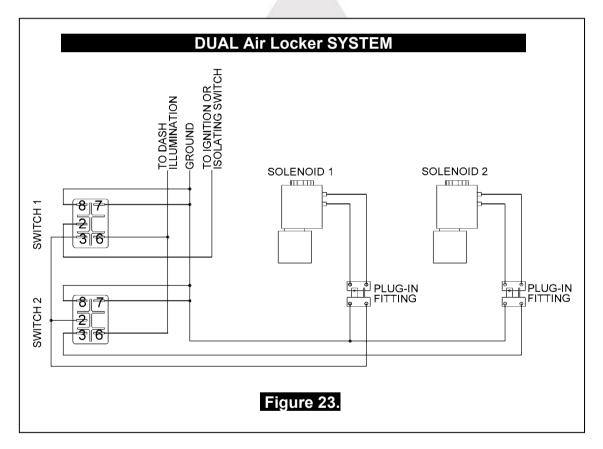
5.2.2.2 Dual Air Locker System

If two Air Lockers are to be installed in the system, ARB recommends that the switches and solenoids be wired according to figure 23. For safety reasons, this configuration allows SOLENOID 2 to be actuated only if SOLENOID 1 is already on.

Attach the "REAR AIR LOCKER" switch cover to SWITCH 1, and the "FRONT AIR LOCKER" switch cover to SWITCH 2.

NOTE : Refer to figure 21. for the correct switch terminal identification and switch orientation.

Configure SOLENOID 1 as the air line leading to the rear axle *Air Locker*, and SOLENOID 2 as the air line leading to the front axle *Air Locker*.





6 Testing & Final Assembly

6.1 Leak Testing

With the vehicle parked and the engine off, turn the compressor on and wait until the air system is fully charged.

NOTE : With the *Air Locker(s)* disengaged, the air source (i.e., compressor) should not have to recharge over time. Intermittent recharging without *Air Locker* use usually indicates a leak at the solenoid fittings or at the compressor tank O-ring seal.

Actuate the *Air Locker*(s).

The compressor should not come on again for a period of at least 15min. Air system recharging within that time period would indicate that a leak is present in the system.

- **NOTE :** If an alternate air source (e.g., an air cylinder or a belt driven air pump) is used instead of a compressor, the air system will have to be leak tested with a pressure gauge and a shut-off valve in series before the solenoid input. (Fig.16.)
- ☐ If a leak is found to be present, spray a soap and water mixture onto all air fittings in the system while the compressor is fully charged. Bubbles should appear at any leak points.

Check that leaky fittings have been adequately tightened.

Disassemble, clean threads, and reapply thread sealant if leaking persists.

6.2 **Testing the Air Locker Actuation**

To test that your air system, electrical system, and your *Air Locker* differential is functioning correctly:

- Support the vehicle such that the wheels are free to rotate (e.g., on axle stands, a chassis hoist, etc.)
- Leave the parking brake off, the transmission in neutral, and the *Air Locker* switch 'OFF'.
- Turn the ignition to the 'ON' position (leaving the motor off). The large illuminating symbol on the *Air Locker* switch cover should be 'OFF'.
- Turn the compressor (or alternate air source) on to charge the air supply up to its maximum pressure.

Rotate one wheel by hand.



6 Testing & Final Assembly

The wheel should rotate freely and the opposite wheel should be turning in the opposite direction without any resistance or mechanical noise from within the differential.

- Turn the *Air Locker* switch to the 'ON' position. The illuminated symbol on the switch cover should light up.
- Rotate the same wheel again.
- Both wheels should rotate together.
- Turn the switch off again.
- Rotate the same wheel.
- The wheels should again rotate in opposite directions.

6.3 Filling the Differential

- **NOTE :** Consult the *ARB Air Locker Operating & Service Manual* for recommendations on differential lubricant specifications.
- Refill the differential until level with the filler hole.
- Rotate the differential center 2 full turns.
- Check the oil level and add oil if necessary.
- Apply thread sealant to filler plug before inserting.
- Replace the filler plug.
- Clean the differential housing of any oil or grease that may collect dirt or other abrasive particles.



6 Testing & Final Assembly

6.4 Post-Installation Check List

Now that the *Air Locker* installation has been completed, ARB recommends that you take the time to complete the following check list just to insure that you haven't missed any of the vital steps.

The air system has been leak teste	d.
Thread locking compound was used	d on the ring gear bolts.
All torque settings comply with the and were set with an accurate torque	•
Differential fluid complies with ARB been filled to the correct level.	recommendations and has
All air lines and wiring have been so snagging.	ecurely cable tied to resist
Switch(es) have been securely mou well away from danger of accidenta	
Switch(es) function properly and illu Locker(s) are engaged.	iminate to indicate that Air
All operators who are to use the Ain understand the ARB Air Locker Operators	
The Air Locker Warning Sticker has proximity of the actuator switch(es).	
INSTALLATION PERFORMED BY:	
DATE OF INSTALLATION:	
ODOMETER READING:	
ARB AIR LOCKER SERIAL No.:	



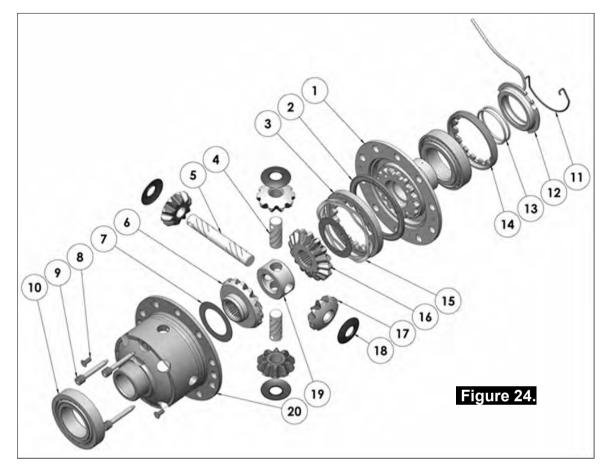
7 Parts List

RD205

Suzuki, FR, 22 SPL, 10 bolt RG

7.1 Exploded Assembly Diagram

(See itemized parts list overleaf)



7.2 Specifications

Axle Spline22 tooth, Ø23.9mm [0.94"]Ratio SupportedAllRing Gear ID108.0mm [4.25"]Ring Gear Bolts10 bolts on Ø130mm [5.12"]Ring Gear Torque95Nm [70 ft-lb]Backlash0.13-0.18mm [0.005-0.007"]Bearing Cap Torque60Nm [44 ft-lb]



7.3 Itemized Parts List

(See exploded diagram figure 24.)

ITEM #	QTY	DESCRIPTION	PART #	NOTES
01	1	FLANGE CAP KIT	028513SP	
02	1	BONDED SEAL	160701SP	
03	1	CLUTCH GEAR & WAVESPRING KIT	050908SP	
04	2	SHORT CROSS SHAFT	060309SP	
05	1	LONG CROSS SHAFT	060108SP	
06	1	SIDE GEAR	SEE NOTE	2
07	2	SIDE GEAR THRUST WASHER	SEE NOTE	3
08	1	COUNTERSUNK SCREW (PK OF 2)	200213SP	
09	1	RETAINING PIN SET (PK OF 4)	120601SP	
10	-	TAPERED ROLLER BEARING	NOT SUPPLIED	
11	1	SEAL HOUSING RETAINING CLIP	150601SP	
12	1	SEAL HOUSING KIT	081902SP	
13	1	SEAL HOUSING O-RINGS (PK OF 2)	160235-2	1
14	1	ADJUSTER NUT	100101SP	
15	1	WAVESPRING	150702SP	
16	1	SPLINED SIDE GEAR	SEE NOTE	2
17	4	PINION GEAR	SEE NOTE	2
18	4	PINION THRUST WASHER	SEE NOTE	3
19	1	SPIDER BLOCK	070702SP	
20	1	DIFFERENTIAL CASE	013113SP	
*	1	BULKHEAD FITTING KIT (BANJO TYPE)	170114	4
*	1	AIR LINE (6mm DIA X 6m LONG)	170314SP	4
*	1	SOLENOID VALVE (12V)	180103	
*	1	SWITCH FR LOCKER	180223	
*	1	CABLE TIE (PK OF 25)	180305	
*	1	OPERATING & SERVICE MANUAL	210200	
*	1	INSTALLATION GUIDE	2102205	

*

Not illustrated in exploded view

NOTES

- 1 For replacement O-rings use only BS133 Viton 75.
- 2 Available only as complete 6 gear set # 728JA22
- 3 Available only as complete thrust washer kit #730JA22
- 4 All diffs produced before serial #17070001 came with 5mm air connection system. For information contact ARB.
- For seal housing set-up refer to tech note (Section 5.2).
- For 26 spline model refer to RD208 (Section 2.208)

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