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## Quigley GM IFS 4x4 Warranty Operating Instructions, Maintenance Schedule & Warranty Registration

Dealer \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Model Year/Model \_\_\_\_\_  
 VIN # \_\_\_\_\_  
 QMCI Cert # \_\_\_\_\_  
 GVWR \_\_\_\_\_  
 Delivery Date \_\_\_\_\_  
 Mileage \_\_\_\_\_  
 QMCI WO # \_\_\_\_\_

**Authorization (#) Must Be Obtained From QMCI Before Repairs Are Made. Phone (800) 233-9358.** Failure to obtain this prior authorization will result in denial of reimbursement for the warranty claim.



- ⚠ Your GMC / Chevrolet (GM) van is considered a utility vehicle and as such utility vehicles have a higher Vertical Center of Gravity (Vcg) than that of a passenger car. Quigley's regular IFS (Independent Front Suspension) 4x4 system lowers the GMC / Chevrolet Vcg. The Quigley **LIFS** (Lifted Independent Front Suspension) 4x4 vehicle gives your utility vehicle increased ground clearance which corresponds to an increase in Vcg.
- ⚠ Vehicles with higher center of gravity have a higher rollover rate than other types of vehicles. As you add passengers and cargo your center of gravity will increase.
- ⚠ Higher center of gravity and 4 wheel drive vehicles handle differently than lower center of gravity vehicles. Utility and 4 wheel drive vehicles are not designed for cornering at speeds as high as passenger cars any more than low slung vehicles are designed to handle off-road conditions satisfactorily. Avoid sharp turns, excessive speeds and abrupt maneuvers in utility and 4 wheel drive vehicles. Failure to drive cautiously could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury or death.
- ⚠ Unbelted passengers are significantly more likely to die than a person wearing a seat belt in a crash or rollover crash.
- ⚠ For safe operation of this vehicle please refer to your GM's Operator's Manual for all warnings and operation procedures.

**QMCI will provide and ship all 4 wheel drive warranty parts at normal FedEx / UPS rates.** Additional charges for overnight, or 2<sup>nd</sup> day, or special delivery will be the responsibility of the vehicle owner. Warranty repair claims must be completed and submitted to QMCI within 60 days of QMCI shipping parts or labor will not be reimbursed.

**Authorization (#) Must Be Obtained From QMCI Before Repairs Are Made. Phone (800) 233-9358.** Failure to obtain this prior authorization will result in denial of reimbursement for the warranty claim.

**To validate this warranty:** The purchaser must complete the **WARRANTY REGISTRATION** page; including name, address, signature, date and mileage. The purchaser should keep one copy with this warranty packet and one copy must be returned to: Quigley Motor Company, Inc. at 100 Sunset Dr., Manchester, PA 17345, upon time and date of retail delivery. Or you can email or fax your signed warranty registration to [info@quigley4x4.com](mailto:info@quigley4x4.com) or (717) 266-6248.

## LIMITED WARRANTY:

QUIGLEY MOTOR COMPANY, INC., designer and builder of "4 Wheel Drive" conversion system (hereinafter referred to as QMCI), warrants the standard 4x4 system to the original purchaser only and is not transferable. This limited warranty shall be effective for a period of 24 months or 24,000 miles; whichever shall occur first and only when such labor and installation are performed at a QMCI authorized service center. This warranty applies only to pre-owned vehicles with 1,001 – 30,000 miles, for replacement parts and repairs made necessary due to 4-wheel drive defects in materials or workmanship of any standard 4-wheel drive components or their attaching parts, during normal use of the vehicle. Optional equipment & accessories are not covered by QMCI warranty.

The warranty for all other parts of the automotive chassis and its original equipment components is the sole responsibility of the General Motors or After-market Company that alters or adds to the chassis.

QMCI will under certain conditions authorize repairs or replacement of the following components:

1. Front axle assembly or serviceable component of the front axle, (optional equipment not covered by QMCI).
2. Drive shaft assembly: any serviceable component of the drive shaft assembly; front-rear-intermediate.
3. Front torsion bars and/or attaching parts as supplied by QMCI.
4. Exhaust system, portions as supplied or modified by QMCI (**Diesel Only**)
5. Shifter: Assembly or serviceable component thereof.
6. Lower control arms supplied by QMCI
7. Wheel hub/bearing assembly.
8. Transfer case assembly. Do not disassemble. QMCI warranty applies to complete transfer case assembly only.

All parts are to be returned to QMCI and subject to inspection by QMCI and or their SUPPLIERS. If parts are determined non-defective the owner is responsible for the parts and labor costs.

Service dealer will be reimbursed at published Service Labor Time Standards at a rate to be determined prior to service. Some repairs are not reimbursed completely. In these cases the owner is responsible for the difference between repair costs and the amount approved by QMCI.

When the owner is in an area where there is no "AUTHORIZED" dealer or service center within a reasonable distance, as determined by QMCI considering the nature of the service problem, service may be arranged at a mutually acceptable alternate service facility. If warranty work is performed at a service point other than authorized sales and service location, QMCI's authorization does not constitute approval or endorsement of the service facility, it's work, or any replacement components involved.

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**\*\*\*NOTICE: OPTIONAL EQUIPMENT CARRIES THE ORIGINAL MANUFACTURERS WARRANTY ONLY.\*\*\***

## **LIMITED WARRANTY EXCLUSIONS OR LIMITATIONS:**

QMCI will assume no liabilities for any personal injuries, repairs or damages, damages to the 4 Wheel Drive Conversion and its components derived or incurred through the following;

- Overloading the GVWR or any axle weight rating is considered abuse and not warranted.
- **Any wheels substituted for O.E.M. (original equipment mfg.) with an outward offset greater than 1/2" will void all Quigley axle and steering warranties!**
- Tires larger than OEM will adversely affect the braking and handling of the vehicle and may void warranty.
- **Brake pad noises are not warranted since that is inherent in the design of the disc brake components.**
- **Front-end alignment is a routine maintenance item and is not a warrantable expense**, unless, required by a warranty repair and only then if vehicle is equipped with O.E.M. (GM) wheels and tires.
- Conditions arising from abuse, negligence, overloading, accidents, modifications, lack of maintenance, alterations or improper repairs, defects in or substitution of equipment (including wheels and or tires) not supplied as part of our standard 4-Wheel Drive system.
- QMCI assumes no responsibility for incidental or consequential damages arising from loss of use, inconvenience, loss of time, loss or damage to any personal property, loss of income, commercial loss, expense for alternate transportation, telephone, food lodging, or cost for bringing the vehicle to a service point.
- Parts and labor required in routine maintenance and wear are also excluded from this warranty and are the owner's responsibility. Examples are tires, tire rotation, wheel balancing, **wheel alignment, brake pads**, and lubrication and fluid levels.
- This warranty does not apply to vehicles purchased from U.S. dealers, but registered / licensed for use in countries other than the U.S. Vehicles operated outside the U.S. may exchange defective parts only for a period of 12 months or 12,000 miles (whichever comes first). Any labor or shipping / handling charges associated with such exchanges become the responsibility of the owner.

Quigley Motor Company, Inc. hereby disclaims all other express or implied warranties of merchantability and use for a particular purpose, to the extent the laws of the State of sale and Federal laws allow. This warranty gives you specific legal rights and you may also have other rights under state laws. This is the only express warranty applicable to QMCI 4 wheel drive conversions. QMCI does not authorize any seller of our 4-wheel drive system to make any other representations or warranty beyond those listed herein.

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# QUIGLEY MOTOR CO., INC - GM VEHICLE OPERATING INSTRUCTIONS / IFS

## QUADRA-VERSION FOUR-WHEEL DRIVE

Maximum traction made possible by selecting 4H or 4L of 2-speed transfer case. The transfer case electronically engages front differential, ensuring engine torque to all four wheels instead of just the two rear wheels.

**⚠ WARNING:** When transfer case is in "N" (neutral position), the transmission "PARK" feature is disabled. Parking brake must be applied or vehicle may move unexpectedly causing serious injury or death.

TRANSFER CASE RANGE SELECTIONS (See Operating Instructions)

### 4-WHEEL DRIVE (LOW RANGE) POSITION

Power to front and rear axles at reduced speed.

NOTE: Speedometer will read much faster than vehicle is traveling. Do not exceed 80 MPH indicated (30 MPH actual) speed.

### NEUTRAL

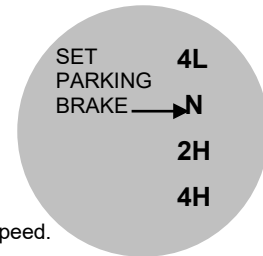
No power to either axle. Use for vehicle towing.

### 2-WHEEL DRIVE POSITION

Power to rear axle only.

### 4-WHEEL DRIVE POSITION

Power to front and rear axles at normal speed.



## OPERATION

CAUTION: The vehicle should only be engaged in 4 Wheel Drive for off road operation or when road or weather conditions create poor traction. When you are operating the VAN on DRY roads keep the transfer case in 2H to prevent excessive tire wear and drive train damage.

## ENGAGING FOUR WHEEL DRIVE

**Front Axle Locking Feature** – The front axle locks and unlocks automatically when you shift the transfer case. A short delay for the axle to lock or unlock is normal. If road conditions provide good traction there may be a delay for the axle to unlock.

**Manual Transfer Case** – The transfer case shift lever is on the floor to the right of the driver. Use this lever to shift into and out of four-wheel drive.

The four-wheel drive indicator light will come on after you shift into four-wheel drive and the front axle engages.

**2-Wheel High (2H):** This setting is for driving in most street and highway situations. Your front axle is not engaged in two-wheel drive.

**4-Wheel High (4H):** This setting engages your front axle for increased traction. Use 4H when you need extra traction, such as on wet or icy roads, or in most off-road situations.

You can shift from 2-WHEEL HIGH (2H) to 4-WHEEL HIGH (4H) or from 4-WHEEL HIGH (4H) TO 2-WHEEL HIGH (2H) while the vehicle is in motion up to 55 mph. Do not shift into 4H while accelerating. In extremely cold weather, it may be necessary to stop or slow the vehicle to shift into 4-WHEEL HIGH (4H).

**Neutral (N):** Shift to this setting only when your vehicle needs to be towed or when using a power take-off. CAUTION: To guard against vehicle moving while unattended, NEVER park your vehicle with transfer case in neutral.

**4-Wheel Low (4L):** This setting also engages your front axle for increased traction and the lower gear increases power. It should be used only for off-road driving, there are 2 options for engaging 4L. **NOTE:** Speedometer will read nearly 3 times faster than vehicle is traveling. Do not exceed 80 MPH indicated (30 MPH actual) speed in 4WD Low Range.

- Engine Off:** Apply brakes, shift TRANSMISSION in N (Neutral). Take foot off brakes to allow a slight movement and shift TRANSFER CASE lever into 4L. Restart engine. If vehicle will not move or there is gear clashing then the lever was not fully engaged in 4L position, repeat procedure. Use same procedure to disengage 4L into either 4H or 2H.
- Engine On:** Slow the vehicle to about 1 to 3mph (2 to 5 km/h) and shift TRANSMISSION into NEUTRAL (N). Shift the transfer case shift lever in one continuous motion. Do not pause in NEUTRAL (N) as you shift the transfer case into 4-WHEEL LOW (4L), or your gears could clash. If vehicle will not move or there is gear clashing then the 4L position was not fully engaged. Turn your engine off, then proceed to shift into 4L. Use same procedure to return to 4H or 2H.

## RETURN TO TWO-WHEEL DRIVE

For best fuel economy, less tire wear and quietest operation shift the transfer case to the two-wheel drive position (2H), when the need for 4-wheel drive is no longer required.

## QUIGLEY 4X4 ROUTINE MAINTENANCE GUIDE / IFS

VEHICLE APPLICATION .....QUIGLEY MOTOR CO., INC. IFS 4x4 SYSTEM LOCKING DIFFERENTIAL

MAINTENANCE .....FRONT DRIVE AXLE, TRANSFER CASE, DRIVE SHAFTS

NOTE: SEE OWNERS MANUAL FOR COMPLETE VEHICLE MAINTENANCE ON ALL OTHER SYSTEMS!!!

### NORMAL DRIVING SERVICE INTERVALS

### ROUTINE LUBRICATION MAINTENANCE

	Miles (Thousands)	5	10	15	20	25	30	35	40	45	50	55	60
	Kilometers (Thousands)	8	16	24	32	40	48	56	64	72	80	88	96
1	Lubricate steering linkage, driveshaft U-joints and slip-yoke if equipped with grease fittings	X	X	X	X	X	X	X	X	X	X	X	X
2	Lubricate front ball joints	X	X	X	X	X	X	X	X	X	X	X	X
3	Check oil level & condition in front axle differential (80w-90)		X		X		X		X		X		X
4	Check oil level & condition in transfer case		X		X		X		X		X		X
5	Change transfer case oil (Dextron ATF)										X		
6	Refer to <b>Inspection Section</b> for other lubrication instructions												
7	<b>Special Operating Instructions:</b> When hubs & axles are submerged in water maintenance schedules 1 - 6 should be performed A.S.A.P. For severe use (a.k.a. towing, mud, excessive dust, etc. maintenance schedules 1 - 6 should be performed more frequently).												

### ROUTINE INSPECTION MAINTENANCE

	Miles (Thousands)	5	10	15	20	25	30	35	40	45	50	55	60
	Kilometers (Thousands)	8	16	24	32	40	48	56	64	72	80	88	96
1	Inspect wheels and tires (see <b>Notice</b> below)	X	X	X	X	X	X	X	X	X	X	X	X
2	Inspect steering system		X		X		X		X		X		X
3	Inspect disc brake system		X		X		X		X		X		X

Perform at the distances shown

**NOTE: REPEAT MAINTENANCE SCHEDULE FOR EACH SUCCESSIVE 60,000 MILE INTERVAL**

**NOTICE!**  
DRIVER – DEALER – OWNER  
CHECK WHEEL NUTS OR BOLTS

1. First trip – Check wheel nuts or bolts at start and 100 miles. Tighten to 140 Ft. Lbs. of torque. (14 mm-9/16")
2. After first trip – Check wheel nuts or bolts and tire pressure and tires periodically.
3. Following winter storage – before a trip, always check wheel nuts or bolts and tire pressure.
4. After changing or rotating tires refer to #1.
5. Alignment specifications; see attached specification sheet.



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**QUIGLEY GM IFS 4X4  
 WARRANTY REGISTRATION  
 24 months / 24,000 miles  
 Pre-owned 5,001 – 30k miles**

Check here if you would be interested in any future Quigley events.

Quigley build Date \_\_\_\_\_  
 In Service Date \_\_\_\_\_  
 Mileage \_\_\_\_\_

VIN # \_\_\_\_\_ QMCI Q# \_\_\_\_\_

*Purchaser's Information*

Business Name \_\_\_\_\_  
 Full Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone # \_\_\_\_\_ Email \_\_\_\_\_  
 Selling Dealer \_\_\_\_\_

**Return of this information is required by Federal Law in order to comply with the Motor Vehicle Safety Act**, and required for any 4x4 warranty coverage by Quigley Motor Company.

By signing below you acknowledge that you have read and understand the the Quigley warranty and **warnings** listed. Upon receipt of this warranty registration, Quigley Motor Company, Inc. will forward to the purchaser a copy of the limited warranty and a complete parts list for this unit.

\_\_\_\_\_  
 Purchaser's signature

Customer keeps green copy of the warranty registration. Please fax the white copy to Quigley Motor Co. 717-266-6248, email to [info@quigley4x4.com](mailto:info@quigley4x4.com) or mail to:

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