

## **Introduction**

### ► Feature

|                                     |                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Line pull (1 <sup>st</sup> layer):  | 9,070 kg / 20,000 lb                                                                                           |
| Line speed (1 <sup>st</sup> layer): | 7.1 mpm at 60 l / min                                                                                          |
| Operation pressure:                 | 175 bar (2,540 psi)                                                                                            |
| Brake:                              | Multi-disc brake and counterbalance valve providing full 100% braking                                          |
| Clutch ( free spool ):              | output shaft disengaged                                                                                        |
| Wire rope:                          | 14 mm x 80 m ( 9/16" x 262' ),for Long drum<br>1,770 N/mm <sup>2</sup> breaking strength of 129 kN is required |
| Hydraulic system:                   | PTO/power take off unit driven pump                                                                            |

### ► Unpacking

|                             |     |
|-----------------------------|-----|
| · Winch assembly.....       | 1pc |
| · Roller fairlead.....      | 1pc |
| · Counterbalance valve..... | 1pc |
| · Cable tensioner.....      | 1pc |
| · Wire rope w/hook.....     | 1pc |

### ► Read this manual carefully

Carefully read and understand this manual before operating the winch.  
Careless winch operation may result in personal injury, danger to others and or damage to property

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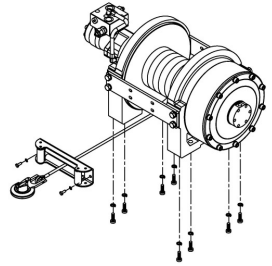
### ► Information requesting or parts ordering

Please specify the followings information:

- |                          |                           |
|--------------------------|---------------------------|
| · Winch PN               | · Part description        |
| · Serial number          | · Replacement part number |
| · Quantity for each part |                           |

# Installation

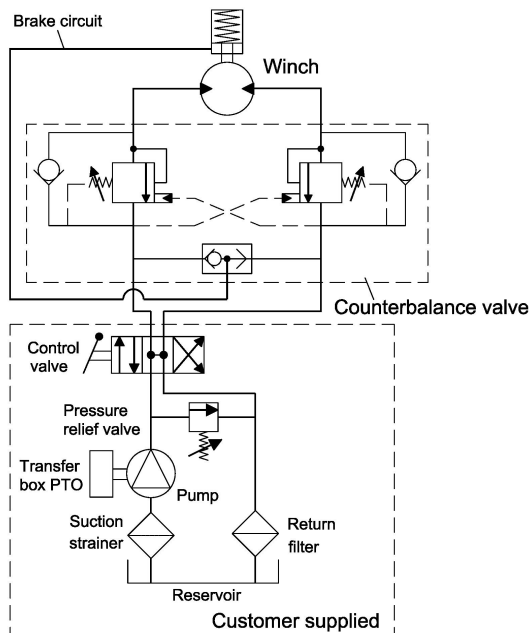
Before using the winch ensure all electrical components are in good condition and all connections are sound.



## ► Mounting

- Winch shall be mounted on a flat and hard surface.
- Winch should be mounted as closed to center and as perpendicular as possible to the direction of the line pull.
- Wire rope shall be wound in an under-wound orientation only.
- Eight (8) M16 x 40, 12.9 grade high tensile steel bolts must be used in order to sustain the loads imposed on the winch.
- Two (2) M10 X 25, 12.9 grade high tensile steel bolts must be used to fasten the roller fairlead to the mounting channel.
- It is always preferred to use both tie bars in the final installed configuration.
- If there is a rope pileup on one end of the drum, reverse the winch to relieve the load and move your anchor point further to the center of the vehicle. Then you can rewind for a neat layer of the rope.

## ► Hydraulic System



( Powered by PTO / power take off unit driven pump )

The installation of the counterbalance valve supplied is required for 100% braking

## **Warning**

- The winch is not to be used for transporting or lifting of personnel.
- The rated line pull shown is based on the first layer of rope on the drum.
- The rope shall remain with at least 5 wraps on the drum at all times

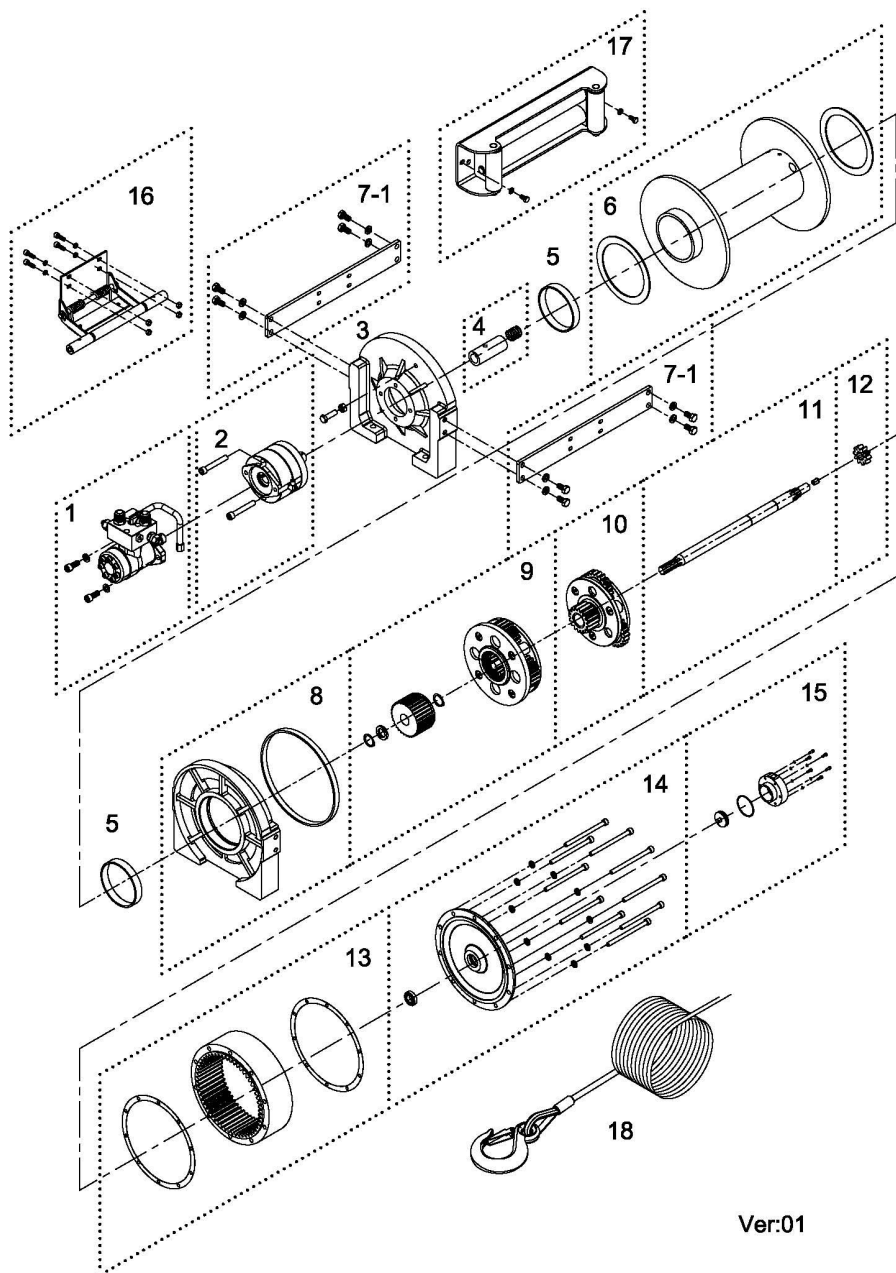
## **Warranty**

Comeup Industries Inc. takes the responsibility for all parts and components to be free from defects in materials and workmanship appearing under normal use for one year from the date of purchase.

## **Parts List**

| Item | No. | Description                                     | Part No. | Qty |
|------|-----|-------------------------------------------------|----------|-----|
| 1    |     | Hydraulic motor kit, OMP-160                    | 882186   | 1   |
| 2    |     | Multi-disc brake kit                            | 881971   | 1   |
| 3    |     | Motor support rack                              | 882142   | 1   |
| 4    |     | Motor coupling kit                              | 881973   | 1   |
| 5    |     | Drum bushing                                    | 880187   | 2   |
| 6    |     | Drum kit, Long drum                             | 882182   | 1   |
| 7-1  |     | Tie bar kit, Long drum                          | 882189   | 2   |
| 8    |     | Gearbox support rack kit                        | 882144   | 1   |
| 9    |     | 2 <sup>nd</sup> stage carrier                   | 882145   | 1   |
| 10   |     | 1 <sup>st</sup> stage carrier                   | 882146   | 1   |
| 11   |     | 1 <sup>st</sup> shaft kit, Long drum            | 882183   | 1   |
| 12   |     | 1 <sup>st</sup> gear                            | 882052   | 1   |
| 13   |     | 1 <sup>st</sup> & 2 <sup>nd</sup> ring gear kit | 882148   | 1   |
| 14   |     | Gearbox rear cover kit                          | 882149   | 1   |
| 15   |     | Air inlet cover kit                             | 881982   | 1   |
| 16   |     | Cable tensioner, Long drum                      | 882195   | 1   |
| 17   |     | Roller fairlead, Long drum                      | 882238   | 1   |
| 18   |     | Wire rope w/hook                                | 881144   | 1   |

# Winch Assembly



Ver:01