Hand Controls from Prime Line Industrial Controls are designed for abusive environments and rugged applications. They stand up to extreme temperatures, humid conditions and are all-weather.

They are available in single- and dual-action/function and in single lever and dual lever configurations. Single action/function controls are for a single function or action for either variable settings like throttle, choke, valve position or discrete positions like power take-off, valve fully open or fully closed, and fuel shut-off.

Dual action/function controls are for controlling two separate functions from the same lever connected to two cables. Through the design of the mechanism, a single lever can control one discrete and one variable function. Shift and throttle function would be a good example of a dual function, single lever mechanism.

Both top-mounted and side-mounted are available. Because of our broad product range, we most probably have an off-the-shelf solution to meet your control needs.
### Hand Controls

#### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Single Function</th>
<th>Dual Function</th>
<th>Single Lever</th>
<th>Dual Lever</th>
<th>Top Mount</th>
<th>Side Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST (CH2400P)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<td>X</td>
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<tr>
<td>STB (CH2410P)</td>
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<tr>
<td>MJB (CH2500P)</td>
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<tr>
<td>Single S (CH521OP)</td>
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<td>X</td>
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<tr>
<td>Twin S (CH5200P)</td>
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<tr>
<td>Twin SR (CH5400P)</td>
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<tr>
<td>SLT (CH5600P)</td>
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<tr>
<td>SL-3 (P/N 309479)</td>
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<tr>
<td>SL-3 (P/N 309746)</td>
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<tr>
<td>SL-3 (P/N 309473)</td>
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<td></td>
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<tr>
<td>MT-3 Single (CH5310P)</td>
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<td></td>
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<tr>
<td>MT-3 Dual (CH5300P)</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tbody>
</table>

**DC Control**

A multi-purpose, mount-anywhere push-pull control. It is a simple control for converting Push-Pull cables into hand controls for controlling throttle, choke, air or fuel shutdown as well as governor or valve control, and other light duty applications. The angle bracket can also be used to mount 30L and 30X Utility cables.

**Features**

- Can be mounted flush on the dashboard, panel or sidewall of any cab,
- Uses standard 3003 (30XBC) and 3009 (30XC) cables,
- Can be optionally mounted with chrome plated angle bracket, and
- All standard Utility cables, 30L, 30X, and 40XHL, can be used with the angle bracket.

**Part No.**

- 301916: DC Control
- 048210: Optional Chrome-plated Angled Mounting Bracket
Hand Controls

ST/STB Controls

The ST & STB controls are economical, and durable with simple, classic design. This single-function lever moves one cable only. Commonly used for control of throttle or shut-off for gas and diesel engines and as a variable speed hydrostatic control for off-highway and agricultural vehicles. The STB control includes a throttle brake and can interface to a pedal. Versions are available for 30X and 40XHL cables. (Replaces the Morse® MXC Control.)

Features –

- Compact, Rugged design and classic traditional styling,
- Durable heavy chrome finish, Uses standard 30X and 40XHL cables,
- Available with or sans adjustable external throttle brake,
- Surface mounting through a 1-1/8” (28.6mm) hole,
- External or Internal brake (STB only),
- Cast flange housing and control lever, and
- Mechanical advantage: 3.2/1.

Control Specifications

Control lever length: 6.25” (160 mm)
Maximum cable travel: 3” (75 mm)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH2400P</td>
<td>ST Control (includes 30X and 40XHL cable attachment H/W)</td>
</tr>
<tr>
<td>CH2410P</td>
<td>STB Control with external brake</td>
</tr>
</tbody>
</table>

Options

- 031046-002 Hand Lever Assembly, Chrome
- 4009819 Ball Knob, Black (3/8”-24 threads)
- 044386 Throttle cable brake

MJB

The MJB Control is ideal for collocated shift and throttle controls to save space while still controlling the equipment. An extra-long shift handle provides ample leverage for engaging and disengaging transmissions and power take-offs. The shorter throttle handle doesn’t need as much leverage and makes it easy to control without the need to look for it. It can be used for any heavy-duty, dual-function operation such as throttle, shift, clutch, shut-off, metering devices, and hydraulic valve control. The MJB uses standard 30Xtreme cables for throttle (or other lighter duty operation) and the heavier duty 60Xtreme cables for shifting (or other heavy-duty operation). (Replaces the Morse® MX Controls.)
MJB, cont’d

Application – this single-function, two-lever control is ideal for many dual controlled devices where extra leverage may be required to engage the transmission and to save space or where the operator must pay attention to the operation of the equipment. Some applications include all types of drilling, paving, and mining equipment.

Features

- Rugged design with classical styling and construction,
- Separate throttle and shift handles,
- Accepts 30XC cable for throttle and 60XC cables for shift,
- Durable heavy chrome finish,
- External throttle friction adjustment,
- Detent for positive neutral feel,
- Right hand, left hand or vertical installation,
- Meets/exceeds all applicable industry standards, and
- Designed for hard to shift older transmissions.

Control Specifications

<table>
<thead>
<tr>
<th>Control Specifications</th>
<th>Shift</th>
<th>Throttle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control lever length:</td>
<td>10.75” (275 mm)</td>
<td>6.75” (172 mm)</td>
</tr>
<tr>
<td>Mechanical advantage:</td>
<td>3.63:1</td>
<td>3.20:1</td>
</tr>
<tr>
<td>Maximum cable travel:</td>
<td>4” (100 mm)</td>
<td>3” (75 mm)</td>
</tr>
<tr>
<td>Cable Family:</td>
<td>60XC, 60XBC</td>
<td>30XC, 30XBC</td>
</tr>
</tbody>
</table>

Part No.       Description
CH2500P       MJB Control

Options

063207 Mounting Hardware Kit
CA69052P Stainless Steel Throttle Knob (red grooved), 3/8-24
CA69051P Stainless Steel Shift Knob (smooth), 3/8”-24
047346 Neutral Safety Switch
Hand Controls

SL-3

The SL-3 is a highly durable control made from solid ABS. It has a modern styling, with dual action, and comes in both top and side mount controls. Black satin finish available in single or twin engine versions, with or without switches.

Features
- Dual action (throttle and shift in one lever),
- Start-in-gear protection standard,
- Neutral interlock prevents accidental engaging of gear (side mount only),
- Push button for neutral engine warm up,
- Use 30X series Cables,
- Adjustable throttle damper,
- Available with or without switches,
- Firm yet effortless motion,
- Right or left (side mount) installation with various cable entry angles,
- Easily adapted to push or pull cable actuation,
- Entire gear mechanism is enclosed,
- Side mount available with switch, and
- Can be used in a dual station application with the DS unit and XTREME control cables.

Control Specifications
Control lever radius: 9" (197 mm)
Maximum cable travel: 3" (75 mm)
Cable Family: 30XC, 30XBC

<table>
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<th>Part No.</th>
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<tr>
<td>309476</td>
<td>SL-3 Top Mount, Single Lever</td>
</tr>
<tr>
<td>309479</td>
<td>SL-3 Top Mount, Dual Lever</td>
</tr>
<tr>
<td>309473</td>
<td>SL-3 Side Mount, Single Lever</td>
</tr>
</tbody>
</table>
Hand Controls

MT-3

Single and Twin – Combines classic styling with top-mounting in one or two dual-control-functions. Each lever controls two functions such as throttle AND shift, clutch AND shift, metering AND valve control. The Twin MT-3 is used for controlling dual engines, for example, or four different functions at a single station.

World’s most popular classic design, dual action, top mount controls. Chrome finish, available in single or twin engine versions.

Features

- Dual action (throttle and shift in one lever)
- Sturdy control provides one-handed positive control,
- Neutral warm-up is done by pulling out the hand levers in the neutral position,
- Built-in friction drag helps reduce slippage and throttle creep while underway,
- Includes hardware for 30XC control cables,
- Single Lever may use 40XHL series control cable with hardware kit 308742, and
- Can be used in a dual station application with the DS unit and Xtreme® control cables.

Control Specifications

Control lever length: 8” (200 mm)
Mechanical advantage: Shift: 2.77:1 Throttle: 3.57:1
Maximum cable travel: 3” (75 mm)
Cable Family: Single/Dual: 30XC, 30XBC; Single: 40XHLC, 40XHLBC

<table>
<thead>
<tr>
<th>Part No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CH5310P</td>
<td>MT-3 Single</td>
</tr>
<tr>
<td>CH5330P</td>
<td>MT-3 Single, with pull cable action for both shift and throttle</td>
</tr>
<tr>
<td>CH5300P</td>
<td>MT-3 Twin</td>
</tr>
<tr>
<td>CH5320P</td>
<td>MT-3 Twin, with pull cable action for both shift and throttle</td>
</tr>
</tbody>
</table>

Options

308742       40XHLC Connection Kit
CA69052P     Stainless Steel Throttle Knob (red grooved), 3/8-24
305499       Neutral Safety Switch
Hand Controls

Single S / Twin S

This classic control is great for applications requiring single or dual station single function control. The time-proven design of the Twin S means years of reliable operation. It accept universal control cables and has an optional lever extension, detent kits and neutral safety switch. (Additional hardware is required for twin statin use.)

Single function, one or two lever versions. Highly polished, stainless steel covers. Suits 30XC and 40XHLC type control cables.

Features
- Highly polished corrosion resistant stainless steel covers and handle,
- Simple, rugged, compact design,
- Optional neutral safety switch to prevent starting in gear,
- Optional hand lever extension,
- Optional gear detent kit (if used in dual stations, use on main operating station only),
- Standard control suits 30XC and 40XHLC type cables,
- Mechanical advantage – shift 2.77:1/ throttle 2.77:1, and
- Meets/exceeds all applicable industry standards.

Control Specifications
Control lever length: 6.14” (155 mm)
Mechanical advantage: 2.77:1
Maximum cable travel: 3” (75 mm)
Cable Family: 30XC/30XBC, 40XHLC /40XHLBC

Part No. Description
CH5210P Single S
CH5200P Twin S

Options
308742 40XHLC Connection Kit
036773 Hand Lever extension
047307 Neutral Safety Switch kit
CA69052P Stainless Steel Throttle Knob (red grooved), 3/8-24
CA69051P Stainless Steel Shift Knob (smooth), 3/8”-24
Hand Controls

Twin SR

Similar to the Single S and Twin S, the Twin SR is ideal for single or multiple station applications. It is made of hi-grade, corrosion resistant materials to easily withstand any environmental conditions. Its removable cover enables easy access to the mechanism to adjust its brakes and stops. It, of course, accepts universal control cables. Optional features include detent kits and neutral safety switches.

Application – Single function control-each lever controls throttle or shift and is ideal for single and dual station use. These single function engine controls are available in both one- or two-lever models. All S controls use 30X or 40XHL cables.

Ideal for multiple station equipment, SR Twin is rugged and made with the finest materials. Removable cover enables easy access to the mechanism. Includes adjustable brakes and stops. Accepts universal control cables. Optional detent kits and neutral switch available. Additional hardware may be required for twin station use.

Features

- Polished stainless steel cover, corrosion-resistant chrome levers and rugged cast hanger plate,
- Removable cover for easy access to the control mechanism (Twin SR),
- Adjustable brakes and stops (Twin SR),
- Simple, rugged, compact design,
- Easily adjustable throttle friction and shift detent feel,
- Optional neutral safety switch to prevent starting in gear,
- Optional shift detent kit (if used in dual stations; use on main station only),
- Optional throttle hold kit,
- Uses standard 30Xtreme and 40Xtreme Hi-Load cables,
- Mechanical advantage: shift 3.10/1; throttle 3.10/1, and
- Meets or exceeds all industry standards.

Options – The Dual Station Transfer Unit is recommended where long or difficult cable routes make parallel installations costly and/or difficult. When single function, two lever controls are used in a parallel, dual station application, some installations may cause the clutch or throttle levers to operate “stiffly”. Adding a transfer unit can improve control performance in these cases.
Hand Controls

SLT Hand Control

SLT Hand Control – (CH5600) Supreme in every way. It has a patented self-locking throttle technology making the SLT the only control that stops cable creep and works flawlessly in single or in-series multi-station applications. The SLT stops unwanted control cable movement without the need for cable brakes or other frictional devices that cause poor feel at the lever and negates the performance advantage of Xtreme® cables. (Additional hardware is required for dual station use.)

Application – Single-function controls-each lever controls throttle or shift. For single or dual stations with single or twin engines (one control per engine per station utilizing an optional neutral safety switch kit.) Uses standard 30Xtreme and 40Xtreme Hi-Load cables.

For single or dual stations with single or twin engines. One control per engine per station. Using a patented self-locking throttle clutch (SLT), the CH5600P control fights throttle creep without friction devices for a smoother feel.

Features
• Stylish top mount control,
• Single action design (one lever for throttle one for shift),
• CH5600P patented SLT technology prevents throttle creep,
• Superior twin station performance,
• Polished stainless steel levers and cover,
• Positive detents for shift,
• Push or pull to operate throttle and/or shift,
• Includes hardware for two 30XC type cables,
• Optional neutral safety switch,
• Patented SLT technology prevents throttle creep; Lever stays in position,
• Superior twin station performance,
• Polished Stainless steel levers and dome,
• Positive detent for shifts,
• Can be user-configured as either Push or Pull op operate throttle and/or shift, and
• Easy-access adjustable shift detents and lever stops (under the easily removed dome).

Options – same as above for Single S controls.

Both top-mounted and side-mounted are available. Because of our broad product range, we most probably have an off-the-shelf solution to meet your control needs.